Appendix D

Health Risk Assessment

Health Risk Assessment
Qume and Commerce Project
City of San José, California

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LIST OF ABBREVIATED TERMS

A	absorption factor from inhalation
ASF	age sensitivity factor
AB	Assembly Bill
APN	Assessor's Parcel Number
APS	auxiliary power system
AT	averaging time
ATCM	Air Toxic Control Measure
BAAQMD	Bay Area Air Quality Management District
CARB	California Air Resources Board
CCAA	California Clean Air Act
CEQA	California Environmental Quality Act
CPF	cancer potency factor
C_{air}	air concentration from model
C_i	air concentration of substance
DBR	daily breathing rate
DOORS	Diesel Off-Road Reporting System
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
Dose-air	dose through inhalation
EMFAC	Emissions Factor Model
ED	exposure duration
EF	exposure frequency
°F	Fahrenheit
FCAA	Federal Clean Air Act
FAH	fraction of time spent at home
GVWR	gross vehicle weight rating
HAP	hazardous air pollutant
HQ	health quotient
HRA	health risk assessment
kg	kilograms
L	liter
MICR	Maximum Individual Cancer Risk
mg	milligrams
$\mu g/m^3$	micrograms per cubic meter
MSAT	Mobile Source Air Toxic
NAAQS	National Ambient Air Quality Standards
NED	National Elevation Dataset
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NO_2	nitrogen dioxide
NO_X	nitrogen oxides
O_3	ozone
OEHHA	Office Environmental Health Hazard Assessment
PM	particulate matter
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PERP	Portable Equipment Registration Program
REL	Reference Exposure Level
REL_i	Reference Exposure Level of substance
$Risk_{inh\text{-}res}$	residential inhalation cancer risk
SB	Senate Bill
T-BACT	toxics best available control technology
TAC	Toxic Air Contaminant
U.S. EPA	United States Environmental Protection Agency
VMT	vehicle miles traveled

INTRODUCTION

The purpose of this Health Risk Assessment (HRA) is to evaluate potential health risks associated with Toxic Air Contaminants (TAC) including Diesel Particulate Matter (DPM) resulting from the implementation of the proposed Qume and Commerce Park Project (proposed project) in the City of San José. This HRA was prepared in accordance with the requirements of the Bay Area Air Quality Management District (BAAQMD) and guidance from the Office of Environmental Health Hazard Assessment (OEHHA) to determine if health risks are likely to occur from the Project. Technical data is included as see Appendix A: Modeling Data.

1.1 Project Location

The proposed project is located at 2222 and 2350 Qume Drive and 2150 Commerce Drive in the City of San José. Figure 1: Regional Vicinity and Figure 2: Site Vicinity, depict the project site in a regional and local context. The project site is located in an urban area with a mix of surrounding uses including commercial, office, and industrial uses. The proposed project's existing land use designation is Industrial Park (IP) and existing zoning designation is Industrial Park (IP).

Currently, the project site is developed with an industrial/business park complex containing three buildings comprising 425,433 square feet (sf). Multiple driveways are provided along Qume Drive and Commerce Drive, and surface parking is available throughout the site. Truck access and loading docks are located on the northwestern extent of 2350 Qume Drive and the southwestern extent of 2150 Commerce Drive. There is existing landscaping and trees along all project site boundaries and within parking aisles. The project site also has existing surface lighting.

1.2 Project Description

The proposed project includes approval of a Vesting Tentative Map (VTM) to divide APN 244-15-029, -030, and -003 into four individual parcels. Table 1: Proposed Parcel Summary provides an overview of project parcels.

Table 1: Proposed Parcel Summary

Proposed Project Parcel	Existing APN	Proposed APN	Proposed Acreage
1	244-15-029	244-15-026	15.18
2		244-15-028	9.43
3	244-15-030	244-15-020	4.48
4	244-15-003	244-15-003	3.77

The proposed project would demolish all on-site improvements and construct four new industrial warehouse buildings with dock doors and associated site improvements. The proposed buildings would comprise a total of 714,419 sf with a floor area ratio (FAR) of 0.51 and maximum height of 48-feet, see Figure 3: Overall Site Plan. Table 2: Building Summary provides an overview of proposed buildings and key components. The project site would be accessed from six driveways along Qume Drive, two driveways along Commerce Drive, and three driveways along McKay Drive. An internal roadway would provide vehicular access between Building 1 and Building 2. Internal access would not be provided to/from Building 3 or Building 4.

Table 2: Proposed Building Summary

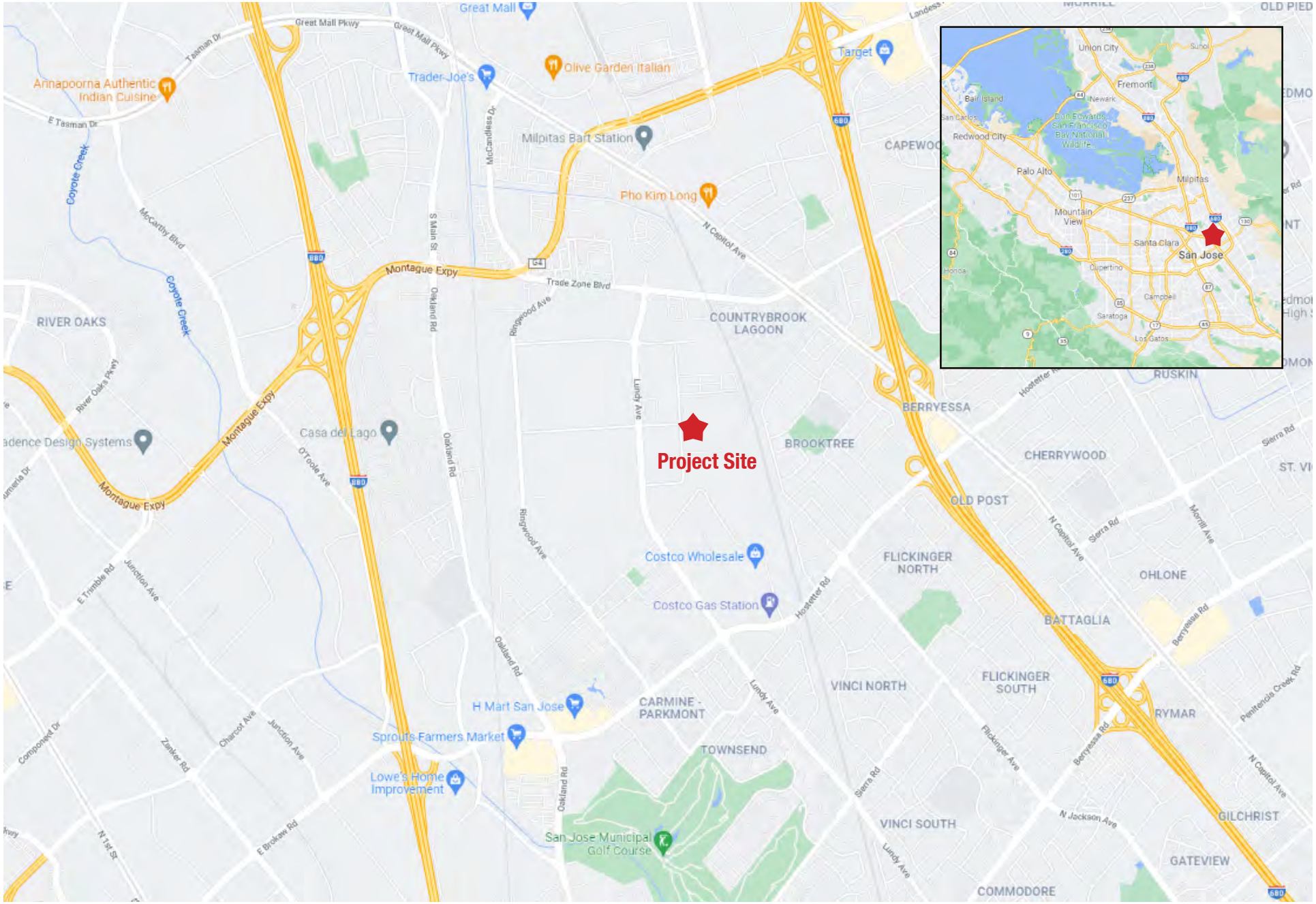
Building	Building Area (sf)	Dock Doors	Trailer Parking	Automobile Parking[1]	Loading Spaces
1	358,180	39	61	156	39
2	202,735	21	27	150	25
3	83,751	10	4	53	10
4	69,825	10	4	53	7
Total	**714,491**	**80**	**96**	**412**	**81**

Notes
[1] Total parking includes ADA accessible, clean air vehicle, EV stalls

The project site has mature landscape vegetation including trees and shrubs along the site boundary. Project implementation would remove existing vegetation on site, including trees. The removed trees would be replaced according to tree replacement ratios required by the City.

Demolition is expected to begin in April 2024, followed by site grading in July 2024 and construction in August 2024. Construction is expected to last for approximately 18 months, concluding in September 2025. Operations are anticipated to commence in October 2025.

The project site is designated as Industrial Park (IP) by the General Plan, which allows for warehousing uses. The project site is zoned as Industrial Park (IP). The LI Zoning District also allows for warehouse and distribution facilities.



Source: Google Maps, 2022

Figure 1: Regional Map

Qume & Commerce

Not to scale

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Source: Google Maps, 2022

Figure 2: Site Vicinity

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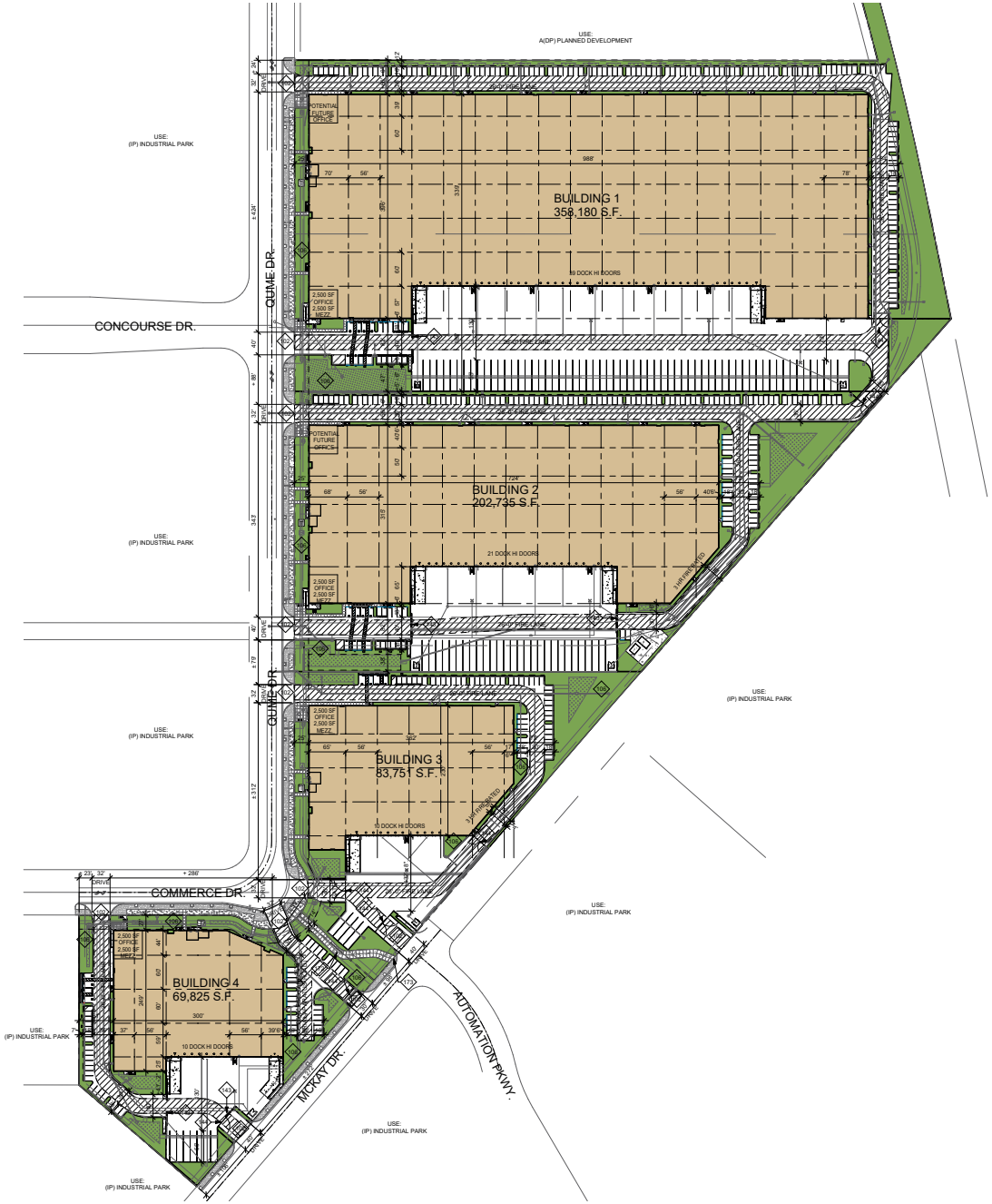

Source: Herdman, 2022

Figure 3: Overall Site Plan

Qume & Commerce

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ENVIRONMENTAL SETTING

2.1 Climate

The project is within the San Francisco Bay Area Air Basin (SFBAAB), which comprises all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties, the southern portion of Sonoma, and the southwestern portion of Solano County. SFBAAB is characterized by complex terrain, consisting of coastal mountain ranges, inland valleys, and bays, which distort normal wind flow patterns. The Coast Range splits resulting in a western coast gap, Golden Gate, and an eastern coast gap, Carquinez Strait, which allow air to flow in and out of the SFBAAB and the Central Valley.

The climate is dominated by the strength and location of a semi-permanent, subtropical high-pressure cell. During the summer, the Pacific high-pressure cell is centered over the northeastern Pacific Ocean resulting in stable meteorological conditions and a steady northwesterly wind flow. Upwelling of cold ocean water from below to the surface because of the northwesterly flow produces a band of cold water off the California coast. The cool and moisture-laden air approaching the coast from the Pacific Ocean is further cooled by the presence of the cold-water band resulting in condensation and the presence of fog and stratus clouds along the Northern California coast.

In the winter, the Pacific high-pressure cell weakens and shifts southward resulting in wind flow offshore, the absence of upwelling, and the occurrence of storms. Weak inversions coupled with moderate winds result in a low air pollution potential.

2.2 Toxic Air Contaminants

Toxic Air Contaminants (TACs) are airborne substances capable of causing short-term (acute) and long-term (chronic or carcinogenic, i.e., cancer causing) adverse human health effects (i.e., injury or illness). TACs include both organic and inorganic chemical substances. They may be emitted from a variety of common sources including gasoline stations, automobiles, dry cleaners, industrial operations, and painting operations. The current California list of TACs includes approximately 200 compounds, including particulate emissions from diesel-fueled engines.

Hazardous Air Pollutants (HAP) is a term used by the Federal Clean Air Act (FCAA) that includes a variety of pollutants generated or emitted by industrial production activities. Identified as TACs under the California Clean Air Act (CCAA), have been singled out through ambient air quality data as being the most substantial health risk in California. Direct exposure to these pollutants has been shown to cause cancer, birth defects, damage to the brain and nervous system, and respiratory disorders. The California Air Resources Board (CARB) provides emission inventories for only the larger air basins.

Industrial facilities and mobile sources are significant sources of TACs. The electronics industry, including semiconductor manufacturing, has the potential to contaminate both air and water due to the highly toxic chlorinated solvents commonly used in semiconductor production processes. In addition to industrial sources, various common urban facilities also produce TAC emissions, such as gasoline stations (benzene), hospitals (ethylene oxide), and dry cleaners (perchloroethylene). Automobile exhaust also contains TACs such as benzene and 1,3-butadiene. Diesel particulate matter (DPM) was identified as a TAC by CARB in 1998. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of hundreds of substances. BAAQMD research indicates that mobile-source emissions of DPM, benzene, and 1,3-butadiene represent a substantial portion of the ambient background risk from TACs in the SFBAAB.

TACs do not have ambient air quality standards because no safe levels of TACs can be determined. Instead, TAC impacts are evaluated by calculating the health risks associated with a given exposure. The requirements of the Air Toxic "Hot Spots" Information and Assessment Act (Assembly Bill [AB] 2588) apply to facilities that use, produce, or emit toxic chemicals. Facilities subject to the toxic emission inventory requirements of the act must prepare and submit toxic emission inventory plans and reports, and periodically update those reports.

Toxic contaminants often result from fugitive emissions during fuel storage and transfer activities, and from leaking valves and pipes. For example, the electronics industry, including semiconductor manufacturing, uses highly toxic chlorinated solvents in semiconductor production processes. Sources of air toxics go beyond industry, however. Automobile exhaust also contains toxic air pollutants such as benzene and 1,3-butadiene.

In California, on-road diesel-fueled engines contribute approximately 24 percent of the statewide total DPM emissions, with an additional 71 percent attributed to other mobile sources such as construction and mining equipment, agricultural equipment, and transport refrigeration units. Stationary sources contribute about 5 percent of total DPM. CARB has developed several plans and programs to reduce diesel emissions such as the Diesel Risk Reduction Plan (DRRP), the Statewide Portable Equipment Registration Program (PERP), and the Diesel Off-Road Reporting System (DOORS). The PERP and DOORS programs allow owners or operators of portable engines and certain other types of equipment to register their units to operate their equipment throughout California without having to obtain individual permits from local air districts.

As stated above, diesel exhaust and many individual substances contained in it (including arsenic, benzene, formaldehyde, and nickel) have the potential to contribute to mutations in cells that can lead to cancer. Long-term exposure to diesel exhaust particles poses the highest cancer risk of any TAC evaluated by OEHHA. CARB estimates that about 70 percent of the cancer risk that the average Californian faces from breathing toxic air pollutants stems from diesel exhaust particles.

Exposure to diesel exhaust can have immediate health effects. Diesel exhaust can irritate the eyes, nose, throat, and lungs, and it can cause coughs, headaches, lightheadedness, and nausea. In studies with human volunteers, diesel exhaust particles made people with allergies more susceptible to the materials to which they are allergic, such as dust and pollen. Exposure to diesel exhaust also causes inflammation in the lungs, which may aggravate chronic respiratory symptoms and increase the frequency or intensity of asthma attacks.

Diesel engines are a major source of fine particulate pollution. The elderly and people with emphysema, asthma, and chronic heart and lung disease are especially sensitive to fine-particle pollution. Numerous studies have linked elevated particle levels in the air to increased hospital admissions, emergency room visits, asthma attacks, and premature deaths among those suffering from respiratory problems. Because children's lungs and respiratory systems are still developing, they are also more susceptible than healthy adults to fine particles. Exposure to fine particles is associated with increased frequency of childhood illnesses and can also reduce lung function in children. California has identified diesel exhaust particles as a carcinogen.

2.3 Sensitive Receptors

Sensitive populations are more susceptible to the effects of air pollution than the general population. Sensitive receptors in proximity to localized sources of toxics are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes.

The Project site is located in an urban area in City of San José. The surrounding land uses are predominantly commercial and industrial, with residential uses to the east, beyond the Bay Area Rapid Transit (BART) railway corridor. Table 3: Sensitive Receptors, lists the distances and locations of nearby sensitive receptors.

Table 3: Sensitive Receptors

Receptor Description	Distance and Direction from the Project Site
Multi-family residential	140 feet east
Single-family residential	190 feet east
Brooktree Park	770 feet southeast
Brooktree Elementary School	900 feet southeast

Source: Google Maps, 2022

Figure 4: Sensitive Receptor Locations

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REGULATORY SETTING

3.1 Federal

Federal Clean Air Act

The FCAA was amended in 1990 to address the numerous air pollutants that are known to cause or may reasonably be anticipated to cause adverse effects to human health or adverse environmental effects. 188 specific pollutants and chemical groups were initially identified as HAPs, and the list has been modified over time. The FCAA Amendments included new regulatory programs to control acid deposition and for the issuance of stationary source operating permits.

In 2001, the United States Environmental Protection Agency (U.S. EPA) issued its first Mobile Source Air Toxics Rule, which identified 21 mobile source air toxic (MSAT) compounds as being HAPs that required regulation. A subset of six of these MSAT compounds were identified as having the greatest influence on health: benzene, 1,3-butadiene, formaldehyde, acrolein, acetaldehyde, and DPM. More recently, the U.S. EPA issued a second MSAT Rule in February 2007, which generally supported the findings in the first rule and provided additional recommendations of compounds having the greatest impact on health. The rule also identified several engine emission certification standards that must be implemented. Unlike the criteria pollutants, toxics do not have National Ambient Air Quality Standards (NAAQS) making evaluation of their impacts less uniform.

National Emissions Standards for Hazardous Air Pollutants (NESHAPs) were incorporated into a greatly expanded program for controlling toxic air pollutants. The provisions for attainment and maintenance of the NAAQS were substantially modified and expanded. Other revisions included provisions regarding stratospheric ozone protection, increased enforcement authority, and expanded research programs.

Section 112 of the FCAA Amendments governs the federal control program for HAPs. NESHAPs are issued to limit the release of specified HAPs from specific industrial sectors. These standards are technology-based, meaning that they represent the best available control technology an industrial sector could afford. The level of emissions controls required by NESHAPs are not based on health risk considerations because allowable releases and resulting concentrations have not been determined to be safe for the public. The FCAA does not establish air quality standards for HAPs that define legally acceptable concentrations of these pollutants in ambient air.

Federal Emissions Standards for On-Road Trucks

To reduce emissions from on-road, heavy-duty diesel trucks, the U.S. EPA established a series of increasingly strict emission standards for new engines, starting in 1988. The U.S. EPA promulgated the final and cleanest standards with the 2007 Heavy-Duty Highway Rule.[1] The PM emission standard of 0.01 gram per horsepower-hour (g/hp-hr) is required for new vehicles beginning with model year 2007. Also, the NO_X and nonmethane hydrocarbon (NMHC) standards of 0.20 g/hp-hr and 0.14 g/hp-hr, respectively,

[1] United States Environmental Protection Agency (U.S. EPA), *Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*, Final Rule. 40 Code of Federal Regulations, Parts 69, 80, and 86. January 18, 2001.

were phased in together between 2007 and 2010 on a percent of sales basis: 50 percent from 2007 to 2009 and 100 percent in 2010.

Emission Standards for Offroad Diesel Engines

To reduce emissions from off-road diesel equipment, the U.S. EPA established a series of cleaner emission standards for new off-road diesel engines. Tier 1 standards were phased in from 1996 to 2000 (year of manufacture), depending on the engine horsepower category. Tier 2 standards were phased in from 2001 to 2006. Tier 3 standards were phased in from 2006 to 2008. Tier 4 standards, which generally require add-on emission control equipment to attain them, are being phased in from 2008 to 2015.

3.2 State of California

California Air Resources Board

CARB's statewide comprehensive air toxics program was established in 1983 with AB 1807 the Toxic Air Contaminant Identification and Control Act (Tanner Air Toxics Act of 1983). AB 1807 created California's program to reduce exposure to air toxics and sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an airborne toxics control measure (ATCM) for sources that emit designated TACs. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology (T-BACT) to minimize emissions.

CARB also administers the State's mobile source emissions control program and oversees air quality programs established by State statute, such as AB 2588. Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority facilities are required to perform a health risk assessment and, if specific thresholds are exceeded, required to communicate the results to the public in the form of notices and public meetings. In September 1992, the AB 2588 was amended by Senate Bill (SB) 1731 which required facilities that pose a significant health risk to the community to reduce their risk through a risk management plan.

Diesel Risk Reduction Plan

The identification of DPM as a TAC in 1998 led CARB to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles (DRRP) in October 2000. The DRRP's goals include an 85 percent reduction in DPM by 2020 from the 2000 baseline[2]. CARB estimates that emissions of DPM in 2035 will be less than half those in 2010, further reducing statewide cancer risk and non-cancer health effects.[3] The DRRP includes regulations to establish cleaner new diesel engines, cleaner in-use diesel engines (retrofits), and cleaner diesel fuel.

[2] California Air Resources Board, *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, October 2000.

[3] California Air Resources Board, *Overview: Diesel Exhaust & Health*, available at: https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health, accessed on August 11, 2021.

Truck and Bus Regulation Reducing Emissions from Existing Diesel Vehicles

On December 12, 2008, CARB approved the Truck and Bus Regulation to significantly reduce PM and NO_X emissions from existing diesel vehicles operating in California. The regulation requires PM retrofits on all diesel trucks and buses that operate in California (i.e., existing vehicles are required to be upgraded to reduce emissions). Heavier trucks must be retrofitted with PM filters beginning January 1, 2012, and older trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses would need to have 2010 model year engines or equivalent.

The regulation applies to most privately-owned and federally-owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds. Small fleets with three or fewer diesel trucks can delay compliance for heavier trucks and there are several extensions for low-mileage construction trucks, early PM filter retrofits, adding cleaner vehicles, and other situations. Privately and publicly owned school buses have different requirements.

Heavy-Duty Vehicle Idling Emission Reduction Program

The purpose of the CARB ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling is to reduce public exposure to diesel particulate matter and criteria pollutants by limiting the idling of diesel-fueled commercial vehicles. The driver of any vehicle subject to this ATCM is prohibited from idling the vehicle's primary diesel engine for greater than five minutes at any location and is prohibited from idling a diesel-fueled auxiliary power system (APS) for more than five minutes to power a heater, air conditioner, or any ancillary equipment on the vehicle if it has a sleeper berth and the truck is located within 100 feet of a restricted area (homes and schools).

CARB Final Regulation Order, Requirements to Reduce Idling Emissions from New and In-Use Trucks, beginning in 2008, would require that new 2008 and subsequent model-year heavy-duty diesel engines be equipped with an engine shutdown system that automatically shuts down the engine after 300 seconds of continuous idling operation once the vehicle is stopped, the transmission is set to "neutral" or "park", and the parking brake is engaged.

CalEnviroScreen

OEHHA has developed CalEnviroScreen 4.0, which is a mapping tool that helps identify California communities that are most affected by many sources of pollution, and where people are often especially vulnerable to pollution's effects. CalEnviroScreen uses environmental, health, and socioeconomic information to produce scores for every census tract in the State. The scores are mapped so that different communities can be compared. An area with a high score is one that experiences a much higher pollution burden than areas with low scores.
According to CalEnviroScreen, the Project site is located within Census Tract 6085504322, which is within the 46th percentile.[4] It should be noted that the CalEnviroScreen scores are not an expression of health risk, and do not provide quantitative information on increases in cumulative impacts for specific sites or projects. Further, as a comparative screening tool, the results do not provide a basis for

[4] California Office of Environmental Health Hazard Assessment, *CalEnviroScreen 4.0*, https://experience.arcgis.com/experience/11d2f52282a54ceebcac7428e6184203/page/Draft-CalEnviroScreen-4.0/, accessed March 2022.

determining when differences between scores are significant in relation to public health or the environment.

CARB Advanced Clean Truck Regulation

CARB adopted the Advanced Clean Truck Regulation in June 2020 requiring truck manufacturers to transition from diesel trucks and vans to electric zero-emission trucks beginning in 2024. By 2045, every new truck sold in California is required to be zero-emission. This rule directly addresses disproportionate risks and health and pollution burdens and puts California on the path for an all zero-emission short-haul drayage fleet in ports and railyards by 2035, and zero-emission "last-mile" delivery trucks and vans by 2040. The Advanced Clean Truck Regulation accelerates the transition of zero-emission medium-and heavy-duty vehicles from Class 2b to Class 8. The regulation has two components including a manufacturer sales requirement, and a reporting requirement:

- Zero-Emission Truck Sales: Manufacturers who certify Class 2b through 8 chassis or complete vehicles with combustion engines are required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales need to be 55 percent of Class 2b – 3 truck sales, 75 percent of Class 4 – 8 straight truck sales, and 40 percent of truck tractor sales.
- Company and Fleet Reporting: Large employers including retailers, manufacturers, brokers and others would be required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, would be required to report about their existing fleet operations. This information would help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

Executive Order N-79-20

Signed in September 2020, Executive Order N-79-20 establishes as a goal that where feasible, all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035. The executive order sets a similar goal requiring that all medium and heavy-duty vehicles will be zero-emission by 2045 where feasible. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new zero emission vehicles (ZEVs) "towards the target of 100 percent." The executive order directs the California Environmental Protection Agency, the California Geologic Energy Management Division (CalGEM), and the California Natural Resources Agency to transition and repurpose oil production facilities with a goal toward meeting carbon neutrality by 2045. Executive Order N-79-20 builds upon the CARB Advanced Clean Trucks regulation, which was adopted by CARB in July 2020.

3.3 Regional

Bay Area Air Quality Management District

The BAAQMD is the regional agency tasked with managing air quality in the region and has regulated TACs since the 1980s. The CCAA provides the BAAQMD with the authority to manage transportation activities at indirect sources and regulate stationary source emissions. Indirect sources of pollution are generated when minor sources collectively emit a substantial amount of pollution. An example of this would be the motor vehicles at an intersection, a mall, and on highways. As a State agency, CARB regulates motor

vehicles and fuels for their emissions. The BAAQMD has published California Environmental Quality Act (CEQA) Air Quality Guidelines that are used in this assessment to evaluate air quality impacts of projects.

Under BAAQMD Regulation 2-1 (General Permit Requirements), Regulation 2-2 (New Source Review), and Regulation 2-5 (New Source Review), all nonexempt sources that possess the potential to emit TACs are required to obtain permits from BAAQMD. Permits may be granted to these operations if they are constructed and operated in accordance with applicable regulations, including new source review standards and air toxics control measures. The BAAQMD limits emissions and public exposure to TACs through a number of programs. Section 301 of Regulation 2, Rule 2 requires Best Available Control Technology (BACT) is triggered for any new or modified source with the potential to emit specific levels of pollutants. The BAAQMD prioritizes TAC-emitting stationary sources for regulation based on the quantity and toxicity of the TAC emissions and the proximity of the facilities to sensitive receptors.

Community Air Risk Evaluation Program

The BAAQMD's Community Air Risk Evaluation (CARE) program estimates and reports both local and regional impacts of TACs in the Bay Area. The objective of the CARE Program is to reduce health impacts linked to local air quality. The goals of the CARE Program are to: (1) identify areas where air pollution contributes most to health impacts and where populations are most vulnerable to air pollution; (2) apply sound scientific methods and strategies to reduce health impacts in these areas; and (3) engage community groups and other agencies to develop additional actions to reduce local health impacts. Information from the CARE program is used by the BAAQMD to design and focus effective mitigation measures in areas with highest impacts.

SIGNIFICANCE CRITERIA AND METHODOLOGY

4.1 Health Risk Analysis Thresholds

Project health risks are determined by examining the types and levels of air toxics generated and the associated impacts on factors that affect air quality. The BAAQMD publishes the California Environmental Quality Act (CEQA) Air Quality Guidelines, which were most recently updated in May 2017. The BAAQMD thresholds for air toxic emissions that are used for this project are shown below:

Individual Projects:

- **Excess Cancer Risk:** Emit contaminants that exceed the maximum individual cancer risk of 10 in one million.
- **Non-Cancer Risk:** Emit contaminants that exceed the maximum hazard quotient of 1.0.
- **Ambient $PM_{2.5}$ Concentration:** Incremental increase in average annual $PM_{2.5}$ concentration of greater than 0.3 $\mu g/m^3$

Cumulative Thresholds:

- **Excess Cancer Risk:** Emit contaminants that would contribute to cumulative emissions, resulting in an exceedance of the maximum individual cancer risk of 100 in one million.
- **Non-Cancer Risk:** Emit contaminants that that would contribute to cumulative emissions, resulting in an exceedance of the maximum hazard quotient of 10.0.
- **Ambient $PM_{2.5}$ Concentration:** Incremental increase in average cumulative annual $PM_{2.5}$ concentration of greater than 0.8 $\mu g/m^3$

Cancer risk is expressed in terms of expected incremental incidence per million population. The BAAQMD has established an individual project incidence rate of 10 persons per million as the maximum acceptable incremental cancer risk. This threshold serves to determine if a given project has a potentially significant development-specific and cumulative impact. The 10 in one million standard is a health-protective significance threshold. A risk level of 10 in one million implies a likelihood that up to 10 persons, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. This risk would be an excess cancer that is in addition to any cancer risk borne by a person not exposed to these air toxics. To put this risk in perspective, the risk of dying from accidental drowning is 1,000 in one million which is 100 times more than the BAAQMD's threshold of 10 in one million.

The BAAQMD has also established non-carcinogenic risk parameters for use in HRAs. Noncarcinogenic risks are quantified by calculating a hazard index (HI), expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A HI less than 1.0 means that adverse health effects are not expected. Within this analysis, non-carcinogenic exposures of less than 1.0 are considered less than significant.

The 2017 BAAQMD CEQA Air Quality Guidelines recommend assessing impacts within 1,000 feet of the project. The 1,000-foot radius is consistent with findings in CARB's Air Quality and Land Use Handbook (2005) and the California Health & Safety Code §42301.6 (Notice for Possible Source Near School). The

CARB Air Quality and Land Use Handbook found that TAC concentrations are reduced substantially at a distance 1,000 feet downwind from sources such as freeways or large distribution centers.

4.2 Methodology

This HRA evaluates potential health risks associated with the emission of diesel particulate matter resulting from the implementation of the proposed Project. Construction equipment and associated heavy-duty truck traffic generate diesel exhaust, which is a known TAC. Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. Operational activities would also include the use of heavy-duty diesel trucks.

Construction Risk

Construction would generate DPM emissions from the use of off-road diesel equipment required for grading and excavation, paving, and other construction activities. For construction activity, DPM is the primary toxic air contaminant of concern. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at the site potentially poses a health risk to nearby sensitive receptors. The closest sensitive receptors to the Project site the residences to the east of the project site (approximately 140 feet away).

Health-related risks associated with diesel-exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer. The use of diesel-powered construction equipment would be episodic and would occur throughout the Project site. Construction activities would limit idling to no more than five minutes, which would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Furthermore, even during the most intense year of construction, emissions of DPM would be generated from different locations on the Project site rather than in a single location because different types of construction activities (e.g., site preparation and building construction) would not occur at the same place at the same time. Construction emissions rates for PM_{10} (DPM) were calculated from the CalEEMod construction emissions modeling conducted for the project Air Quality Assessment.

Operational Sources

The truck traffic from the Project could also result in pollutant concentrations at existing sensitive receptors. Average daily trips from truck traffic to the Project were obtained from the Project Transportation Analysis (February 2022). Total daily trip and truck trip generation is based on Institute of Transportation Engineers (ITE) Industrial Park (ITE code 130) rates. The project is expected to generate a 2,408 daily trips. However, with internal trip and location-based mode share adjustments the project would have approximately 2,035 daily trips. Emission rates for vehicle running and idling for $PM_{2.5}$ (DPM) was calculated using trip data and CARB 2021 EMission FACtor model version 1.0.1 (EMFAC)[5] data for Santa Clara County; refer to Appendix A. The emissions rate was calculated using 2025 emissions factors since the Project is anticipated to be operational in 2025. This approach is conservative as it assumes no cleaner technology in future years. The operational model run included one backup generator per building.

[5] California Air Resources Board, *EMFAC 2021 Web Database,* https://arb.ca.gov/emfac/emissions-inventory, accessed August 2021.

Dispersion Modeling

The air dispersion modeling for the operational risk assessment was performed using U.S. EPA AERMOD dispersion model. AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the stack heights of the emission sources (not a factor in this case). AERMOD requires hourly meteorological data consisting of wind vector, wind speed, temperature, stability class, and mixing height. AERMOD regulatory defaults, the "Urban" modeling option for the County, and "Elevated" terrain were used for this analysis.

The emission sources in the model are line volume sources (comprised of smaller adjacent volume sources) for the loading dock idling areas, on-site truck circulation, and off-site routes. The truck loading areas for the site are located on the northwest side of the building. Heavy duty vehicle emissions were assigned a release height of 12 feet (3.66 meters), a plume height of 20.4 feet (6.22 meters). A release height of 12 feet is the average stack height for trucks and the plume height is based on U.S. EPA guidance for vehicle volume sources. For the backup generators, a point source was utilized. The base elevation was 78 feet (23.78 meters) with a release height of 20 feet (6.1 meters).

AERMOD was run to obtain the peak 1-hour, 24- hour and period (annual average) concentration in micrograms per cubic meter ($\mu g/m^3$) at the nearby sensitive receptors. The period concentrations were used to calculate the Maximum Individual Cancer Risk (MICR), the maximum chronic HI, and the hourly concentrations were used to calculate the health impact from substances with acute non-cancer health effects. A receptor grid was placed over the Project site to cover the zone of impact. Due to the size of the Project site, nearby sensitive receptors were modeled with a 35-meter (115-foot) grid spacing. In addition, National Elevation Dataset (NED) terrain data was imported into AERMOD for the Project. Surface and upper air meteorological data is provided by CARB. Surface and upper air meteorological data from the San José Airport Monitoring Station was selected as being the most representative for meteorology based on proximity to the Project site. The modeling and analysis was prepared in accordance with the BAAQMD Modeling Guidance for AERMOD[6].

Project construction would occur for over a period of up to approximately 18 months. However, the health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 3-year exposure scenario as recommended by the BAAQMD, and thus is conservative.[7] The cancer risk calculations were based on applying age sensitivity weighting factors for each emissions period modeled. Age-sensitivity factors reflect the greater sensitivity of infants and small children to cancer causing TACs. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the OEHHA Guidance Manual. Only the risk associated with the worst-case location of the proposed Project was assessed.

Maximum (worst case) $PM_{2.5}$ exhaust construction emissions over the entire construction period were used in AERMOD to approximate construction DPM emissions. Risk levels were calculated according to the California Office of Environmental Health Hazard Assessment (OEHHA) guidance document, *Air Toxics Hot Spots Program Risk Assessment Guidelines* (February 2015).

[6] Bay Area Air Quality Management District, *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*, December 2016.

[7] The BAAQMD recommends that the cancer risk be evaluated assuming that the average daily dose for short-term exposure lasts a minimum of three years for projects lasting three years or less (BAAQMD, *BAAQMD Air Toxics NSR Program Health Risk Assessment Guidelines*, December 2016).

Note that the concentration estimate developed using this methodology is conservative and is not a specific prediction of the actual concentrations that would occur at the Project site at any given point in time. Actual 1-hour and annual average concentrations are dependent on many variables, including specific distances during time periods of adverse meteorology. A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on these worst-case exposure duration scenarios. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the OEHHA Guidance Manual. Only the risk associated with the worst-case location of the Project was assessed.

Risk and Hazard Assessment

Cancer Risk. Based on the OEHHA methodology, residential inhalation cancer risk from annual average DPM concentrations are calculated by multiplying the daily inhalation dose, cancer potency factor, age sensitivity factor (ASF), frequency of time spent at home, and exposure duration divided by averaging time, yielding the excess cancer risk. These factors are discussed in more detail below. It is important to note that exposure duration is based on continual heavy truck operations along nearby roadways. Exposure through inhalation (Dose-air) is a function of breathing rate, exposure frequency, and concentration of substance in the air. To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration:

$$\text{Dose-air} = C_{air} * (BR/BW) * A * EF * 10^{-6}$$

Where:

Dose-air	=	dose through inhalation (mg/kg/day)
C_{air}	=	air concentration ($\mu g/m^3$) from air dispersion model
(BR/BW)	=	daily breathing rate normalized to body weight (L/kg bodyweight-day)
A	=	inhalation absorption factor (unitless)
EF	=	exposure frequency (approximately 350 days per year for residential)
10^{-6}	=	conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to consider the increased sensitivity to carcinogens during early-life exposure. In the absence of chemical-specific data, OEHHA recommends a default ASF presented in Table 4: Default Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates. Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions are not occurring away from home. OEHHA recommends the FAH values presented in Table 4.

Table 4: Default Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates

Age	Default Age Sensitivity Factor[1] (ASF)	Fraction of Time at Home (FAH)	Daily Breathing Rate (L/kg BW-day[2])
Third trimester	10	85%	361
0 to 2 years	10	85%	1,090
Ages 2 through 15 years	3	72%	745
Ages 16 and greater	1	73%	335

1. Accounts for potential increased sensitivity to carcinogens during childhood.
2. 95th percentile daily breathing rate normalized to body weight (L/kg body weight-day).
Source: California Office of Environmental Health Hazard Assessment, *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments*, February 2015.

To estimate the cancer risk, the dose is multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only):

$$Risk_{inh\text{-}res} = (Dose_{air} * CPF * ASF * (ED/AT) * FAH)$$

Where:

$Risk_{inh\text{-}res}$ = residential inhalation cancer risk (potential chances per million)

$Dose_{air}$ = daily dose through inhalation (mg/kg-day)

CPF = inhalation cancer potency factor ($mg/kg\text{-}day^{-1}$)

ASF = age sensitivity factor for a specified age group (unitless)

ED = exposure duration (in years) for a specified age group

AT = averaging time of lifetime cancer risk (years)

FAH = Fraction of time spent at home (unitless)

Chronic Non-Cancer Hazard. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The following equation was used to determine the non-cancer risk:

$$\text{Hazard Quotient} = C_i/REL_i$$

Where:

Ci = Concentration in the air of substance i (annual average concentration in $\mu g/m^3$)

RELi = Chronic noncancer Reference Exposure Level for substance i ($\mu g/m^3$)

Acute Non-Cancer Hazard. The potential for acute non-cancer hazards is evaluated by comparing the maximum short-term exposure level to an acute REL. RELs are designed to protect sensitive individuals within the population. The calculation of acute non-cancer impacts is similar to the procedure for chronic non-cancer impacts. The equation is as follows:

$$\text{Acute HQ} = \text{Maximum Hourly Air Concentration } (\mu g/m^3) / \text{Acute REL } (\mu g/m^3)$$

Health Risk Computation

A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 30-year exposure scenario using CARB's Risk Assessment Stand Alone Tool (RAST). Health risk were analyzed at the point of maximum impact and are a conservative estimate. The pollutant concentrations are then used to estimate the long-term cancer health risk to an individual as well as the non-cancer chronic health index.

The off-site impacts would occur from the diesel trucks accessing the proposed Project. The cancer and chronic health risks are based on the annual average concentration of $PM_{2.5}$. As DPM does not have short-term toxicity values, acute risks were conservatively evaluated using hourly $PM_{2.5}$ concentrations and the REL for acrolein. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the U.S. EPA *Human Health Evaluation Manual* (1991) and the OEHHA Guidance Manual (2015).

POTENTIAL HEALTH RISK IMPACTS

CARB identified DPM as a TAC in 1998. Mobile sources (including trucks, buses, automobiles, trains, ships, and farm equipment) are by far the largest source of diesel emissions. The exhaust from diesel engines includes hundreds of different gaseous and particulate components, many of which are toxic. Diesel exhaust is composed of two phases, either gas or particulate – both contribute to the risk. The gas phase is composed of many of the urban TACs, such as acetaldehyde, acrolein, benzene, 1,3-butadiene, formaldehyde, and polycyclic aromatic hydrocarbons. The particulate phase has many different types that can be classified by size or composition. The sizes of diesel particulates of greatest health concern are fine and ultrafine particles. These particles may be composed of elemental carbon with adsorbed compounds such as organics, sulfates, nitrates, metals, and other trace elements. Diesel exhaust is emitted from a broad range of on- and off-road diesel engines. As the Project includes construction near sensitive receptors and proposes heavy-duty trucks near within the BAAQMD 1,000-foot zone of influence an analysis of health risk impacts from TACs was performed for both construction and operations.

5.1 Construction Health Risk Analysis

Construction equipment and associated heavy-duty truck traffic generate diesel exhaust, which is a known toxic air contaminants (TAC). Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. The closest sensitive receptors to the Project site are the residences across the BART tracks (approximately 140 feet away). BAAQMD provides guidance for evaluating impacts from TACs in its CEQA Air Quality Guidelines document. As noted therein, an incremental cancer risk of greater than 10 cases per million at the Maximally Exposed Individual (MEI) will result in a significant impact. The BAAQMD considers exposure to annual $PM_{2.5}$ concentrations that exceed 0.3 $\mu g/m^3$ from a single source to be significant. The BAAQMD significance threshold for non-cancer hazards is 1.0.

Project construction would generate DPM emissions from the use of off-road diesel equipment required for grading and excavation, paving, and other construction activities. For construction activity, DPM is the primary toxic air contaminant of concern. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors.

The amount to which the receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk (i.e., potential exposure to TAC emission levels that exceed applicable standards). On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. Construction is temporary and would be transient throughout the site (i.e. move from location to location) and would not generate emissions in a fixed location for extended periods of time.

Construction is subject to and would comply with California regulations (e.g., California Code of Regulations, Title 13, Division 3, Article 1, Chapter 10, Sections 2485 and 2449), which reduce DPM and criteria pollutant emissions from in-use off-road diesel-fueled vehicles and limit the idling of heavy-duty construction equipment to no more than five minutes. These regulations would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Given the temporary and intermittent nature of construction activities likely to occur within specific locations in the Project site

(i.e., construction is not likely to occur in any one location for an extended time), the dose of DPM of any one receptor is exposed to would be limited.

$PM_{2.5}$ construction emissions rates in grams per second were calculated from the total annual on-site exhaust emissions reported in CalEEMod (0.08 tons unmitigated and 0.006 tons mitigated) total during construction. Annual emissions were converted to grams per second and these emissions rates were input into AERMOD. Although Project construction would occur for over a period of one year, the health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 3-year exposure scenario as recommended by the BAAQMD, and thus is conservative.[8]

As noted above, maximum (worst case) $PM_{2.5}$ exhaust construction emissions over the entire construction period were used in AERMOD to approximate construction DPM emissions. Risk levels were calculated with the CARB Hotspots Analysis and Reporting Program (HARP) Risk Assessment Standalone Tool (RAST) based on the California Office of Environmental Health Hazard Assessment (OEHHA) guidance document, Air Toxics Hot Spots Program Risk Assessment Guidelines (February 2015). Results of this assessment are summarized in Table 5: Construction Risk.

Table 5: Construction Risk

Emissions Sources	Pollutant Concentration ($\mu g/m^3$)	Cancer Risk (per Million)	Chronic Hazard	Acute Hazard
Unmitigated				
Construction	0.05	14.95	0.009	0.115
BAAQMD Threshold	*0.3*	*10*	*1.0*	*1.0*
Threshold Exceeded?	**No**	**Yes**	**No**	**No**
Mitigated				
Construction	0.01	1.71	0.001	0.012
BAAQMD Threshold	*0.3*	*10*	*1.0*	*1.0*
Threshold Exceeded?	**No**	**No**	**No**	**No**

1. Heavy-duty off-road construction equipment would also meet CARB Tier 4 Final emissions standards per Mitigation Measure HRA-1. The Tier 3 construction equipment with 85 percent PM reduction filters would result in 0.013 $\mu g/m^3$ with a cancer risk of 4.18 per million. This would be below BAAQMD thresholds.
Refer to Appendix A: Air Quality Modeling Data.

Maximum unmitigated concentration of $PM_{2.5}$ during construction would be 0.05 $\mu g/m^3$, which would not exceed the BAAQMD threshold of 0.3 $\mu g/m^3$. The highest calculated unmitigated carcinogenic risk from project construction would be 14.95 per million, which would exceed the BAAQMD threshold of 10 in one million. The maximally exposed individual (MEI) during construction (i.e., the closest sensitive receptor) to the project site are the residences across the railroad tracks (approximately 140 feet away).

Mitigation Measure HRA-1 requires the use of construction equipment that would meet CARB Tier 4 Final emissions standards in order to reduce diesel exhaust construction emissions. Mitigation Measure HRA-1 would reduce the project $PM_{2.5}$ concentration to 0.01 $\mu g/m^3$ and would reduce the Project's maximum cancer risk to 1.71 per million, which would be below the BAAQMD thresholds of 0.3 $\mu g/m^3$ and 10 in one million, respectively. Non-cancer hazards for DPM would be below BAAQMD threshold, with a chronic

[8] The BAAQMD recommends that the cancer risk be evaluated assuming that the average daily dose for short-term exposure lasts a minimum of three years for projects lasting three years or less (BAAQMD, *BAAQMD Air Toxics NSR Program Health Risk Assessment Guidelines*, December 2016).

hazard index computed at 0.009 and an acute hazard index of 0.115 without mitigation and 0.001 and 0.012 with mitigation. Acute and chronic hazards would be below the BAAQMD significance threshold of 1.0. As described above, construction risk levels would be below the BAAQMD's thresholds with Mitigation Measure HRA-1. Construction risk levels would be less than significant with mitigation.

Mitigation Measures:

HRA-1 Prior to issuance of any demolition, grading, and/or building permits (whichever occurs earliest), the project applicant shall prepare and submit a construction operations plan that includes specifications of the equipment to be used during construction to the Director of Planning, Building and Code Enforcement or the Director's Designee. The plan shall be accompanied by a letter signed by an air quality specialist, verifying that the equipment included in the plan meets the standards set forth below.

- For all construction equipment larger than 25 horsepower operating on the site for more than two days continuously or 20 total hours, shall, at a minimum meet U.S. EPA Tier 4 Final emission standards.
- If Tier 4 Final equipment is not available, 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 emission standards for Tier 3 engines and include particulate matter emissions control equivalent to CARB Level 3 verifiable diesel emission control devices that altogether achieve an 85 percent reduction in particulate matter exhaust and 40 percent reduction in NOx in comparison to uncontrolled equipment.

Prior to the issuance of any demolition, grading, and/or building permits, the project applicant shall submit a construction operations plan prepared by the construction contractor that outlines how the contractor will achieve the measures outlined in this mitigation measure. The plan shall be submitted to the Director of Planning, Building and Code Enforcement or the Director's designee for review and approval prior to the issuance of any demolition, grading and/or building permits (whichever occurs earliest). The plan shall include, but not be limited to the following:

- List of activities and estimated timing.
- Equipment that would be used for each activity.
- Manufacturer's specifications for each equipment that provides the emissions level; or the manufacturer's specifications for devices that would be added to each piece of equipment to ensure the emissions level meet the thresholds in the mitigation measure.
- How the construction contractor will ensure that the measures listed are monitored.
- How the construction contractor will remedy any exceedance of the thresholds.
- How often and the method the construction contractor will use to report compliance with this mitigation measure.

Level of Significance: Less than significant with mitigation incorporated.

5.2 Operational Health Risk Analysis

Vehicle DPM emissions were estimated using emission factors for course particulate matter less than 2.5 microns in diameter ($PM_{2.5}$) generated with the EMFAC developed by CARB. EMFAC is a mathematical model that was developed to calculate emission rates from motor vehicles that operate on highways,

freeways, and local roads in California and is commonly used by CARB to project changes in future emissions from on-road mobile sources. EMFAC, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day. The model includes the emissions benefits of the truck and bus rule and the previously adopted rules for other on-road diesel equipment.

For this Project, annual average PM_{10} emission factors were generated by running EMFAC for vehicles in the BAAQMD within the Santa Clara County. EMFAC generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of vehicle speed, temperature, and relative humidity. The model was run for heavy-duty diesel vehicles traveling along Qume Road, Commerce Drive, Lundy Road, and Trade Zone, as well as circulating the Project site and idling at proposed loading areas. The four backup generators were also included.

Based on the AERMOD outputs, the highest expected annual average diesel $PM_{2.5}$ emission concentrations from diesel truck traffic near sensitive receptors would be 0.001 µg/m^3. The calculations conservatively assume no cleaner technology with lower emissions in future years.

Table 6: Operational Risk shows the highest calculated carcinogenic risk resulting from the Project is 0.48 in one million, which is below the BAAQMD threshold of 10 per million. Acute and chronic hazards also would be below the BAAQMD significance threshold of 1.0.

Table 6: Operational Risk

Exposure Scenario	Pollutant Concentration (µg/m^3)	Maximum Cancer Risk (per Million)	Chronic Noncancer Hazard	Acute Noncancer Hazard
Particulate Matter ($PM_{2.5}$)	0.001	0.48	0.0001	0.003
Threshold	*NA*	*10 in one million*	*1.0*	*1.0*
Exceed Threshold?	**No**	**No**	**No**	**No**

1. Refer to Appendix A: Modeling Data.
2. The maximum cancer would be experienced at the residences across the train tracks east of the Project site based on worst-case exposure durations for the Project, 95th percentile breathing rates, and 30-year exposure duration.

The pollutant concentrations modeled in AERMOD represent the exposure levels outdoors. The BAAQMD conservatively does not include indoor exposure adjustments for residents. However, the typical person spends the majority of time indoors rather than remaining outdoors in the same location for 24 hours a day.[9] Therefore, the AERMOD outdoor pollutant concentrations are not necessarily representative of actual exposure at the Project site and tend to overestimate exposure.

Cumulative Health Impacts

Cumulative impacts are defined as two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts. Worst-case $PM_{2.5}$ concentrations and chronic hazard levels for the project would be well below the BAAQMD's thresholds. CEQA Guidelines 15065(a)(3) states "… 'Cumulatively considerable' means that the incremental effects of

[9] California Air Resources Board Research Division and University of California, Berkeley, *Activity Patterns of California Residents,* May 1991. The study indicates that on average, adults and adolescents in California spent almost 15 hours per day inside their homes, and 6 hours in other indoor locations, for a total of 21 hours (87% of the day). Approximately two hours per day were spent in transit, and just over one hour per day was spent in outdoor locations.

an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects."

Mobile and stationary sources within a 1,000-foot radius of the project site were reviewed using BAAQMD's Stationary Source Screening Analysis Tools. There were two stationary sources located within a 1,000-foot radius of the project site. As shown in Table 7: Cumulative Operational Health Risk, cumulative impacts related to cancer risk and hazard would be less than cumulatively considerable and within acceptable limits. Additionally, cumulative residential $PM_{2.5}$ would not exceed the BAAQMD's cumulative threshold of 0.3 µg/m^3, the primary contributor to those concentrations is the existing highway sources near the project area. The existing highway sources have a high $PM_{2.5}$ (0.26 µg/m^3). The highway sources represent approximately 87 percent of the total concentrations and are completely unrelated to the project. The project represents less than 1.3 percent of total cumulative $PM_{2.5}$ in the project area. Therefore, the project's cumulative impacts would be less than significant.

Table 7: Cumulative Operational Health Risk

Emissions Sources	$PM_{2.5}$ (µg/m^3)	Cancer Risk (per million)	Hazard
Project Mobile Emissions	0.001	0.48	0.0001
Stationary Sources			
BD Biosciences	0.001	0.53	0.001
HGST, Inc	0.002	0.83	0.002
Major Street Sources[1]	0.04	1.60	0.16
Highway Sources[1]	0.26	13.34	1.04
Railway Sources[1]	0.00	0.10	0.00
Cumulative Health Risk Values	**0.30**	**16.88**	**1.20**
BAAQMD Cumulative Threshold	*0.8*	*100*	*10*
Threshold Exceeded?	**No**	**No**	**No**

1. BAAQMD GIS data.
Source: BAAQMD's Stationary Source Data and GIS Mapping Tools, 2021.

As described above in Table 7, cumulative impacts related to cancer risk and hazard would be less than cumulatively considerable and within acceptable limits. Additionally, cumulative $PM_{2.5}$ concentrations at the residential MEI would not exceed the BAAQMD's cumulative threshold of 0.3 µg/m^3, the primary contributor to those concentrations is the existing highway sources near the project area. The existing highway sources have a high $PM_{2.5}$ (0.26 µg/m^3). The highway sources represent approximately 87 percent of the total concentrations and are unrelated to the project. The project represents less than 0.3 percent of total cumulative $PM_{2.5}$ in the project area. Therefore, the project's cumulative impacts would be less than significant.

The incremental effect of the individual project is less than significant.[10] As such, although the related cumulative TAC sources in the project area exceed BAAQMD cumulative thresholds for cancer risk, the

[10] CEQA case law has held that any additional emissions in an impacted area does not necessarily create a significant cumulative impact, finding that "the 'one [additional] molecule rule' is not the law" (Communities for a Better Environment v. California Resources Agency (2002) 103 Cal. App. 4th 98, 120).

project's incremental effects would not be cumulatively considerable. Therefore, the project's cumulative impacts would be less than significant.

Mitigation Measures: None required.

Level of Significance: Less than significant and less than cumulatively considerable impacts.

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1. Bay Area Air Quality Management District, *BAAQMD Air Toxics NSR Program Health Risk Assessment (HRA) Guidelines*, December 2016.
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11. City of San José, *Envision San José* 2040 *General Plan FEIR,* 2011.
12. Kimley-Horn & Associates, *Qume and Commerce Development Transportation Analysis*, February 2022.
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Appendix A

Modeling Data

Operational Emissions Rates Calculations

Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)
Qume Dr and Commerce Dr	35	344	0.00044	951.8	0.59	8.91E-02	1.03E-06
Lundy Ave	40	344	0.00038	1900.4	1.18	1.54E-01	1.78E-06
Trade Zone Blvd	40	344	0.00038	2363	1.47	1.91E-01	2.21E-06
On-Site Travel (Bldg 1)	15	168	0.00057	568	0.35	3.36E-02	3.89E-07
On-Site Travel (Bldg 2)	15	90	0.00057	527.2	0.33	1.67E-02	1.94E-07
On-Site Travel (Bldg 3)	15	43	0.00057	165.1	0.10	2.50E-03	2.90E-08
On-Site Travel (Bldg 4)	15	43	0.00057	162.5	0.10	2.46E-03	2.85E-08

Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Emission Rate (g/sec)
Loading Area (Bldg 1)	Idle	168	0.000865907	0.25	3.64E-02	4.21E-07
Loading Area (Bldg 2)	Idle	90	0.000865907	0.25	1.95E-02	2.25E-07
Loading Area (Bldg 3)	Idle	43	0.000865907	0.25	9.31E-03	1.08E-07
Loading Area (Bldg 4)	Idle	43	0.000865907	0.25	9.31E-03	1.08E-07

Construction - Mitigated

$PM_{2.5}$ Exhaust Onsite

Year	Tons/Year	g/s	Weighted Average On-Site Rate
2024	8.02E-03	0.000231	0.000219447
2025	7.42E-03	0.000213	
	0.01544		

$PM_{2.5}$ Exhaust Off-Site

	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2024	7.24E-03	0.000208	3.01841E-05	3.76E-05
2025	9.97E-03	0.000287	4.15657E-05	

Construction Route	Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)
Qume and Commerce	951.8	0.59	3.76E-05	2.22E-05
Lundy	1900.4	1.18	3.76E-05	4.44E-05

On-Site Construction Emissions

Year	Phase	tons/yr Exhaust $PM_{2.5}$
2024	Demolition	1.73E-03
2024	Site Prep	1.60E-04
2024	Grading	2.03E-03
2024	Building	4.10E-03
	Total	8.02E-03
2025	Building	6.54E-03
2025	Arch Coating	3.40E-04
2025	Paving	5.40E-04
	Total	0.00742

Off-Site Construction Emissions

Year	Phase	tons/yr Exhaust $PM_{2.5}$
2024	Demolition	3.07E-03
2024	Site Prep	0.00E+00
2024	Grading	3.40E-04
2024	Building	3.83E-03
	Total	7.24E-03
2025	Building	6.56E-03
2025	Arch Coating	3.40E-03
2025	Paving	1.00E-05
	Total	9.97E-03

	PM2.5 (exhaust)		
	Tons/year	grams/year	grams/sec
Stationary Source	0.0181	16420.0485	0.000521
each generator	0.000130318		

Source: EMFAC2021 (v1.0.1) Emission Rates
Region Type: Sub-Area
Region: Santa Clara (SF)
Calendar Year: 2025
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 RI

	Speed (mph)		
Idle (g/trip)	15	35	40
0.00086591	0.000567451	0.000438145	0.000377904

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	Trips	PM2.5_IDLEX	
Santa Clara	2025	HHDT	Aggregate	Aggregate	Gasoline	2.330358956	124.9448223	46.62582199	4.27417E-07	9.96E-07
Santa Clara	2025	HHDT	Aggregate	Aggregate	Diesel	8692.574961	1008963.948	127877.0897	0.028176899	244.9298
Santa Clara	2025	HHDT	Aggregate	Aggregate	Electricity	63.37120141	6579.674935	825.9971986	0	0
Santa Clara	2025	HHDT	Aggregate	Aggregate	Natural Gas	832.4050204	55779.3819	7555.504424	0.000103291	0.08598
Santa Clara	2025	LHDT2	Aggregate	Aggregate	Gasoline	2512.652279	91345.05406	37434.7751	0.00013557	0.340641
Santa Clara	2025	LHDT2	Aggregate	Aggregate	Diesel	4837.2356	188645.0475	60846.33861	0.006299976	30.47447
Santa Clara	2025	LHDT2	Aggregate	Aggregate	Electricity	50.46202005	3193.250687	669.1749743	0	0
Santa Clara	2025	MHDT	Aggregate	Aggregate	Gasoline	1412.262568	72039.87357	28256.54946	0.000107002	0.151114
Santa Clara	2025	MHDT	Aggregate	Aggregate	Diesel	10548.05912	435100.6189	125915.2277	0.005976317	63.03855
Santa Clara	2025	MHDT	Aggregate	Aggregate	Electricity	90.80851234	4838.905804	1182.343378	0	0
Santa Clara	2025	MHDT	Aggregate	Aggregate	Natural Gas	98.90627736	4590.306874	911.9208312	6.20374E-06	0.000614

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Total VMT	PM2.5_RUNEX	
Santa Clara	2025	HHDT	Aggregate	15	Gasoline	3.320680464	2.24796E-08	7.46475E-08
Santa Clara	2025	HHDT	Aggregate	15	Diesel	18568.66462	0.000233152	4.329314483
Santa Clara	2025	HHDT	Aggregate	15	Electricity	143.2491712	0	0
Santa Clara	2025	HHDT	Aggregate	15	Natural Gas	2803.265683	1.11472E-05	0.031248503
Santa Clara	2025	LHDT2	Aggregate	15	Gasoline	15846.62971	3.13958E-05	0.497517068
Santa Clara	2025	LHDT2	Aggregate	15	Diesel	25449.25348	0.001278301	32.53181035
Santa Clara	2025	LHDT2	Aggregate	15	Electricity	466.9162212	0	0
Santa Clara	2025	MHDT	Aggregate	15	Gasoline	2534.012725	8.14273E-06	0.020633773
Santa Clara	2025	MHDT	Aggregate	15	Diesel	21581.05762	0.000576527	12.44205242
Santa Clara	2025	MHDT	Aggregate	15	Electricity	224.2930103	0	0
Santa Clara	2025	MHDT	Aggregate	15	Natural Gas	233.1234868	7.04267E-07	0.000164181

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Total VMT	PM2.5_RUNEX	
Santa Clara	2025	HHDT	Aggregate	35	Gasoline	6.912996048	1.68042E-08	1.16167E-07
Santa Clara	2025	HHDT	Aggregate	35	Diesel	28919.36675	0.000299044	8.648157043
Santa Clara	2025	HHDT	Aggregate	35	Electricity	229.5517218	0	0
Santa Clara	2025	HHDT	Aggregate	35	Natural Gas	3290.940459	5.89811E-06	0.019410333
Santa Clara	2025	LHDT2	Aggregate	35	Gasoline	4628.012404	4.30312E-06	0.019914882
Santa Clara	2025	LHDT2	Aggregate	35	Diesel	12534.58771	0.000308222	3.863430025
Santa Clara	2025	LHDT2	Aggregate	35	Electricity	197.3972216	0	0
Santa Clara	2025	MHDT	Aggregate	35	Gasoline	4373.68147	4.6804E-06	0.020470569
Santa Clara	2025	MHDT	Aggregate	35	Diesel	65876.75619	0.000615838	40.56944012
Santa Clara	2025	MHDT	Aggregate	35	Electricity	617.8171427	0	0
Santa Clara	2025	MHDT	Aggregate	35	Natural Gas	611.9492469	6.77891E-07	0.000414835

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Total VMT	PM2.5_RUNEX	
Santa Clara	2025	HHDT	Aggregate	40	Gasoline	6.886048664	1.47567E-08	1.01616E-07
Santa Clara	2025	HHDT	Aggregate	40	Diesel	34263.69444	0.00039943	13.68595578
Santa Clara	2025	HHDT	Aggregate	40	Electricity	265.3920159	0	0
Santa Clara	2025	HHDT	Aggregate	40	Natural Gas	3489.751854	5.43702E-06	0.018973865
Santa Clara	2025	LHDT2	Aggregate	40	Gasoline	1241.771322	1.05355E-06	0.001308262
Santa Clara	2025	LHDT2	Aggregate	40	Diesel	6535.791088	0.00013763	0.899518114
Santa Clara	2025	LHDT2	Aggregate	40	Electricity	90.91662254	0	0
Santa Clara	2025	MHDT	Aggregate	40	Gasoline	4754.324643	4.41727E-06	0.021001154
Santa Clara	2025	MHDT	Aggregate	40	Diesel	52390.84363	0.000471757	24.71576049
Santa Clara	2025	MHDT	Aggregate	40	Electricity	519.8813397	0	0
Santa Clara	2025	MHDT	Aggregate	40	Natural Gas	548.6223022	4.88269E-07	0.000267875

Construction

	µg/m³		
	1 hr	24 hr	Period
Project	2.87E-01	1.26E-01	4.69E-02

HARP 2 Risk Summary

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	4.69E-02	1.50E-05	14.95	9.38E-03	2.87E-01	0.00E+00
2	107028	Acrolein				0.00E+00	2.87E-01	1.15E-01

Tier 4

	µg/m³		
	1 hr	24 hr	Period
Project	3.23E-02	1.47E-02	5.74E-03

HARP 2 Risk Summary

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	5.74E-03	1.83E-06	1.83	1.15E-03	3.23E-02	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	3.23E-02	1.29E-02

Operations

	µg/m³		
	1 hr	24 hr	Period
Project	7.84E-03	2.65E-03	7.00E-04

HARP 2 Risk Summary

INDEX	POLID		CONC	Cancer INH_RISK	Per 1 million	Chronic RESP	Acute CONC	Acute RESP
1	9901	Diesel ExhPM	7.00E-04	4.77E-07	0.48	1.40E-04	7.84E-03	0.00E+00
2	107028	Acrolein	0.00E+00	0.00E+00		0.00E+00	7.84E-03	3.14E-03

Construction - Unmitigated

$PM_{2.5}$ Exhaust Onsite

Year	Tons/Year	g/s	Weighted Average On-Site Rate
2024	0.08013	0.002305	0.00176225
2025	5.12E-02	0.001473	

$PM_{2.5}$ Exhaust Off-Site

	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2024	7.24E-03	0.000208	3.01841E-05	3.76E-05
2025	9.97E-03	0.000287	4.15657E-05	

Construction Route	Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)
Qume and Commerce	951.8	0.59	3.76E-05	2.22E-05
Lundy	1900.4	1.18	3.76E-05	4.44E-05

On-Site Construction Emissions

Year	Phase	tons/yr Exhaust $PM_{2.5}$
2024	Demolition	0.025
2024	Site Prep	2.83E-03
2024	Grading	0.0246
2024	Building	0.0277
	Total	0.08013
2025	Building	0.0412
2025	Arch Coating	4.43E-03
2025	Paving	5.58E-03
	Total	0.05121

Off-Site Construction Emissions

Year	Phase	tons/yr Exhaust $PM_{2.5}$
2024	Demolition	3.07E-03
2024	Site Prep	0.00E+00
2024	Grading	3.40E-04
2024	Building	3.83E-03
	Total	7.24E-03
2025	Building	6.56E-03
2025	Arch Coating	3.40E-03
2025	Paving	1.00E-05
	Total	9.97E-03

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** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 11/26/2021
** File: C:\Lakes\AERMOD View\Qume and Commerce\Qume_Const\Qume_Const.ADI
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** AERMOD Control Pathway
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   AVERTIME 1 24 PERIOD
   URBANOPT 1928000 Santa_Clara_County
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL Qume_Const.err
CO FINISHED
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** AERMOD Source Pathway
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** Source ID - Type - X Coord. - Y Coord. **
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** DESCRSRC Onsite Construction
** PREFIX
** Length of Side = 9.50
** Configuration = Adjacent
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LOCATION L0005475 VOLUME 598651.379 4139516.451 19.64
LOCATION L0005476 VOLUME 598657.385 4139523.812 19.59
LOCATION L0005477 VOLUME 598663.391 4139531.172 19.55
LOCATION L0005478 VOLUME 598669.397 4139538.533 19.52
LOCATION L0005479 VOLUME 598675.403 4139545.893 19.68
LOCATION L0005480 VOLUME 598681.409 4139553.254 19.85
LOCATION L0005481 VOLUME 598687.415 4139560.614 20.02
LOCATION L0005482 VOLUME 598689.650 4139568.603 20.15
LOCATION L0005483 VOLUME 598686.353 4139577.512 20.26
LOCATION L0005484 VOLUME 598683.056 4139586.422 20.39
LOCATION L0005485 VOLUME 598679.759 4139595.331 20.53
LOCATION L0005486 VOLUME 598676.461 4139604.241 20.55
LOCATION L0005487 VOLUME 598673.164 4139613.150 20.54
LOCATION L0005488 VOLUME 598669.826 4139621.992 20.61
LOCATION L0005489 VOLUME 598660.387 4139620.916 21.17
LOCATION L0005490 VOLUME 598650.948 4139619.841 21.39
LOCATION L0005491 VOLUME 598641.509 4139618.765 20.76
LOCATION L0005492 VOLUME 598632.070 4139617.690 20.16
LOCATION L0005493 VOLUME 598622.631 4139616.614 19.98
LOCATION L0005494 VOLUME 598613.192 4139615.538 20.02
LOCATION L0005495 VOLUME 598603.753 4139614.463 20.06
LOCATION L0005496 VOLUME 598594.314 4139613.387 20.10
LOCATION L0005497 VOLUME 598584.875 4139612.312 20.14
LOCATION L0005498 VOLUME 598575.436 4139611.236 20.17
LOCATION L0005499 VOLUME 598565.998 4139610.160 20.20
LOCATION L0005500 VOLUME 598556.559 4139609.085 20.23
LOCATION L0005501 VOLUME 598547.120 4139608.009 20.20
LOCATION L0005502 VOLUME 598537.681 4139606.934 20.16

LOCATION L0005503 VOLUME 598528.242 4139605.858 20.11
LOCATION L0005504 VOLUME 598518.803 4139604.782 20.03
LOCATION L0005505 VOLUME 598509.364 4139603.707 19.95
LOCATION L0005506 VOLUME 598499.925 4139602.631 19.85
LOCATION L0005507 VOLUME 598490.486 4139601.556 19.76
LOCATION L0005508 VOLUME 598481.047 4139600.480 19.66
LOCATION L0005509 VOLUME 598471.608 4139599.405 19.57
LOCATION L0005510 VOLUME 598462.170 4139598.329 19.49
LOCATION L0005511 VOLUME 598452.731 4139597.253 19.49
LOCATION L0005512 VOLUME 598443.292 4139596.178 19.61
LOCATION L0005513 VOLUME 598433.853 4139595.102 19.73
LOCATION L0005514 VOLUME 598424.414 4139594.027 19.54
LOCATION L0005515 VOLUME 598422.003 4139587.045 19.53
LOCATION L0005516 VOLUME 598422.569 4139577.562 19.64
LOCATION L0005517 VOLUME 598423.136 4139568.079 19.74
LOCATION L0005518 VOLUME 598423.702 4139558.596 19.79
LOCATION L0005519 VOLUME 598424.268 4139549.112 19.81
LOCATION L0005520 VOLUME 598424.834 4139539.629 19.83
LOCATION L0005521 VOLUME 598425.400 4139530.146 19.85
LOCATION L0005522 VOLUME 598425.966 4139520.663 19.85
LOCATION L0005523 VOLUME 598426.533 4139511.180 19.85
LOCATION L0005524 VOLUME 598427.099 4139501.697 19.82
LOCATION L0005525 VOLUME 598427.665 4139492.214 19.67
LOCATION L0005526 VOLUME 598428.231 4139482.731 19.52
LOCATION L0005527 VOLUME 598428.797 4139473.247 19.35
LOCATION L0005528 VOLUME 598429.363 4139463.764 19.50
LOCATION L0005529 VOLUME 598429.929 4139454.281 19.65
LOCATION L0005530 VOLUME 598430.496 4139444.798 19.81
LOCATION L0005531 VOLUME 598431.062 4139435.315 19.89
LOCATION L0005532 VOLUME 598431.628 4139425.832 19.93
LOCATION L0005533 VOLUME 598432.194 4139416.349 19.97
LOCATION L0005534 VOLUME 598432.760 4139406.866 20.02
LOCATION L0005535 VOLUME 598433.326 4139397.383 20.07
LOCATION L0005536 VOLUME 598433.893 4139387.899 20.13
LOCATION L0005537 VOLUME 598434.459 4139378.416 20.21
LOCATION L0005538 VOLUME 598435.025 4139368.933 20.42
LOCATION L0005539 VOLUME 598435.591 4139359.450 20.64
LOCATION L0005540 VOLUME 598436.157 4139349.967 20.85
LOCATION L0005541 VOLUME 598436.916 4139341.043 21.11
LOCATION L0005542 VOLUME 598443.204 4139348.164 20.94
LOCATION L0005543 VOLUME 598449.492 4139355.285 20.84
LOCATION L0005544 VOLUME 598455.780 4139362.406 20.77
LOCATION L0005545 VOLUME 598462.067 4139369.528 20.71
LOCATION L0005546 VOLUME 598468.355 4139376.649 20.61
LOCATION L0005547 VOLUME 598474.643 4139383.770 20.50
LOCATION L0005548 VOLUME 598480.931 4139390.891 20.37
LOCATION L0005549 VOLUME 598487.219 4139398.013 20.26
LOCATION L0005550 VOLUME 598493.507 4139405.134 20.21
LOCATION L0005551 VOLUME 598499.795 4139412.255 20.18
LOCATION L0005552 VOLUME 598506.083 4139419.376 20.20

LOCATION L0005553 VOLUME 598512.371 4139426.498 20.09
LOCATION L0005554 VOLUME 598518.659 4139433.619 19.93
LOCATION L0005555 VOLUME 598524.947 4139440.740 19.80
LOCATION L0005556 VOLUME 598531.234 4139447.861 19.68
LOCATION L0005557 VOLUME 598537.522 4139454.983 19.66
LOCATION L0005558 VOLUME 598543.810 4139462.104 19.65
LOCATION L0005559 VOLUME 598550.098 4139469.225 19.62
LOCATION L0005560 VOLUME 598556.386 4139476.346 19.61
LOCATION L0005561 VOLUME 598562.674 4139483.468 19.63
LOCATION L0005562 VOLUME 598568.962 4139490.589 19.69
LOCATION L0005563 VOLUME 598575.250 4139497.710 19.78
LOCATION L0005564 VOLUME 598581.538 4139504.832 19.89
LOCATION L0005565 VOLUME 598587.826 4139511.953 19.91
LOCATION L0005566 VOLUME 598594.113 4139519.074 19.85
LOCATION L0005567 VOLUME 598600.401 4139526.195 19.70
LOCATION L0005568 VOLUME 598606.689 4139533.317 19.52
LOCATION L0005569 VOLUME 598612.977 4139540.438 19.61
LOCATION L0005570 VOLUME 598619.265 4139547.559 19.78
LOCATION L0005571 VOLUME 598625.553 4139554.680 19.93
LOCATION L0005572 VOLUME 598631.841 4139561.802 20.06
LOCATION L0005573 VOLUME 598638.129 4139568.923 20.18
LOCATION L0005574 VOLUME 598644.417 4139576.044 20.36
LOCATION L0005575 VOLUME 598650.705 4139583.165 20.67
LOCATION L0005576 VOLUME 598641.874 4139582.898 20.43
LOCATION L0005577 VOLUME 598632.392 4139582.312 20.17
LOCATION L0005578 VOLUME 598622.911 4139581.727 20.05
LOCATION L0005579 VOLUME 598613.429 4139581.141 20.00
LOCATION L0005580 VOLUME 598603.947 4139580.555 19.95
LOCATION L0005581 VOLUME 598594.465 4139579.970 19.99
LOCATION L0005582 VOLUME 598584.983 4139579.384 20.02
LOCATION L0005583 VOLUME 598575.501 4139578.798 20.05
LOCATION L0005584 VOLUME 598566.019 4139578.213 20.06
LOCATION L0005585 VOLUME 598556.537 4139577.627 20.07
LOCATION L0005586 VOLUME 598547.055 4139577.042 20.04
LOCATION L0005587 VOLUME 598537.573 4139576.456 20.02
LOCATION L0005588 VOLUME 598528.091 4139575.870 19.98
LOCATION L0005589 VOLUME 598518.609 4139575.285 19.94
LOCATION L0005590 VOLUME 598509.127 4139574.699 19.89
LOCATION L0005591 VOLUME 598499.645 4139574.113 19.85
LOCATION L0005592 VOLUME 598490.164 4139573.528 19.80
LOCATION L0005593 VOLUME 598480.682 4139572.942 19.76
LOCATION L0005594 VOLUME 598471.200 4139572.356 19.74
LOCATION L0005595 VOLUME 598461.718 4139571.771 19.72
LOCATION L0005596 VOLUME 598455.822 4139568.000 19.77
LOCATION L0005597 VOLUME 598456.361 4139558.515 19.82
LOCATION L0005598 VOLUME 598456.900 4139549.030 19.87
LOCATION L0005599 VOLUME 598457.438 4139539.546 19.92
LOCATION L0005600 VOLUME 598457.977 4139530.061 19.95
LOCATION L0005601 VOLUME 598458.515 4139520.576 19.96
LOCATION L0005602 VOLUME 598459.054 4139511.091 19.97

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   LOCATION L0005603     VOLUME   598459.593 4139501.607 19.93
   LOCATION L0005604     VOLUME   598460.131 4139492.122 19.76
   LOCATION L0005605     VOLUME   598460.670 4139482.637 19.59
   LOCATION L0005606     VOLUME   598461.209 4139473.153 19.42
   LOCATION L0005607     VOLUME   598461.747 4139463.668 19.59
   LOCATION L0005608     VOLUME   598462.286 4139454.183 19.75
   LOCATION L0005609     VOLUME   598462.825 4139444.698 19.91
   LOCATION L0005610     VOLUME   598463.363 4139435.214 20.05
   LOCATION L0005611     VOLUME   598466.433 4139432.314 20.06
   LOCATION L0005612     VOLUME   598473.185 4139438.997 19.95
   LOCATION L0005613     VOLUME   598479.937 4139445.680 19.86
   LOCATION L0005614     VOLUME   598486.689 4139452.363 19.80
   LOCATION L0005615     VOLUME   598493.441 4139459.045 19.76
   LOCATION L0005616     VOLUME   598500.194 4139465.728 19.72
   LOCATION L0005617     VOLUME   598506.946 4139472.411 19.69
   LOCATION L0005618     VOLUME   598513.698 4139479.093 19.67
   LOCATION L0005619     VOLUME   598520.450 4139485.776 19.66
   LOCATION L0005620     VOLUME   598527.202 4139492.459 19.64
   LOCATION L0005621     VOLUME   598533.954 4139499.142 19.63
   LOCATION L0005622     VOLUME   598540.706 4139505.824 19.65
   LOCATION L0005623     VOLUME   598547.459 4139512.507 19.72
   LOCATION L0005624     VOLUME   598554.211 4139519.190 19.79
   LOCATION L0005625     VOLUME   598560.963 4139525.872 19.90
   LOCATION L0005626     VOLUME   598567.715 4139532.555 19.98
   LOCATION L0005627     VOLUME   598574.467 4139539.238 20.01
   LOCATION L0005628     VOLUME   598572.201 4139541.532 20.01
   LOCATION L0005629     VOLUME   598562.776 4139540.343 20.01
   LOCATION L0005630     VOLUME   598553.350 4139539.153 20.00
   LOCATION L0005631     VOLUME   598543.925 4139537.964 19.98
   LOCATION L0005632     VOLUME   598534.500 4139536.775 19.96
   LOCATION L0005633     VOLUME   598525.075 4139535.585 19.94
   LOCATION L0005634     VOLUME   598515.649 4139534.396 19.92
   LOCATION L0005635     VOLUME   598506.224 4139533.207 19.91
   LOCATION L0005636     VOLUME   598496.799 4139532.018 19.91
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Qume and Commerce Haul Route
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.0000222
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 598348.605, 4139922.113, 18.29, 3.11, 3.95
** 598397.076, 4139242.767, 20.95, 3.11, 3.95
** 598393.301, 4139191.807, 20.14, 3.11, 3.95
** 598174.364, 4139174.821, 18.09, 3.11, 3.95
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   LOCATION L0000270     VOLUME   598349.512 4139909.395 18.25
   LOCATION L0000271     VOLUME   598350.117 4139900.917 18.22
   LOCATION L0000272     VOLUME   598350.722 4139892.438 18.20
   LOCATION L0000273     VOLUME   598351.327 4139883.960 18.19
   LOCATION L0000274     VOLUME   598351.932 4139875.482 18.19
   LOCATION L0000275     VOLUME   598352.537 4139867.003 18.24
   LOCATION L0000276     VOLUME   598353.142 4139858.525 18.32
   LOCATION L0000277     VOLUME   598353.747 4139850.046 18.39
   LOCATION L0000278     VOLUME   598354.352 4139841.568 18.46
   LOCATION L0000279     VOLUME   598354.956 4139833.089 18.42
   LOCATION L0000280     VOLUME   598355.561 4139824.611 18.39
   LOCATION L0000281     VOLUME   598356.166 4139816.132 18.37
   LOCATION L0000282     VOLUME   598356.771 4139807.654 18.36
   LOCATION L0000283     VOLUME   598357.376 4139799.176 18.36
   LOCATION L0000284     VOLUME   598357.981 4139790.697 18.35
   LOCATION L0000285     VOLUME   598358.586 4139782.219 18.34
   LOCATION L0000286     VOLUME   598359.191 4139773.740 18.35
   LOCATION L0000287     VOLUME   598359.796 4139765.262 18.36
   LOCATION L0000288     VOLUME   598360.401 4139756.783 18.37
   LOCATION L0000289     VOLUME   598361.006 4139748.305 18.39
   LOCATION L0000290     VOLUME   598361.611 4139739.826 18.49
   LOCATION L0000291     VOLUME   598362.216 4139731.348 18.59
   LOCATION L0000292     VOLUME   598362.821 4139722.870 18.70
   LOCATION L0000293     VOLUME   598363.426 4139714.391 18.79
   LOCATION L0000294     VOLUME   598364.031 4139705.913 18.85
   LOCATION L0000295     VOLUME   598364.635 4139697.434 18.91
   LOCATION L0000296     VOLUME   598365.240 4139688.956 18.96
   LOCATION L0000297     VOLUME   598365.845 4139680.477 18.96
   LOCATION L0000298     VOLUME   598366.450 4139671.999 18.94
   LOCATION L0000299     VOLUME   598367.055 4139663.520 18.91
   LOCATION L0000300     VOLUME   598367.660 4139655.042 18.89
   LOCATION L0000301     VOLUME   598368.265 4139646.564 18.88
   LOCATION L0000302     VOLUME   598368.870 4139638.085 18.87
   LOCATION L0000303     VOLUME   598369.475 4139629.607 18.87
   LOCATION L0000304     VOLUME   598370.080 4139621.128 18.82
   LOCATION L0000305     VOLUME   598370.685 4139612.650 18.75
   LOCATION L0000306     VOLUME   598371.290 4139604.171 18.67
   LOCATION L0000307     VOLUME   598371.895 4139595.693 18.60
   LOCATION L0000308     VOLUME   598372.500 4139587.214 18.72
   LOCATION L0000309     VOLUME   598373.105 4139578.736 18.84
   LOCATION L0000310     VOLUME   598373.710 4139570.257 18.95
   LOCATION L0000311     VOLUME   598374.314 4139561.779 19.01
   LOCATION L0000312     VOLUME   598374.919 4139553.301 18.97
   LOCATION L0000313     VOLUME   598375.524 4139544.822 18.94
   LOCATION L0000314     VOLUME   598376.129 4139536.344 18.90
   LOCATION L0000315     VOLUME   598376.734 4139527.865 18.94
   LOCATION L0000316     VOLUME   598377.339 4139519.387 19.01
   LOCATION L0000317     VOLUME   598377.944 4139510.908 19.09
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LOCATION L0000318 VOLUME 598378.549 4139502.430 19.18
LOCATION L0000319 VOLUME 598379.154 4139493.951 19.23
LOCATION L0000320 VOLUME 598379.759 4139485.473 19.29
LOCATION L0000321 VOLUME 598380.364 4139476.995 19.34
LOCATION L0000322 VOLUME 598380.969 4139468.516 19.41
LOCATION L0000323 VOLUME 598381.574 4139460.038 19.50
LOCATION L0000324 VOLUME 598382.179 4139451.559 19.59
LOCATION L0000325 VOLUME 598382.784 4139443.081 19.69
LOCATION L0000326 VOLUME 598383.389 4139434.602 19.78
LOCATION L0000327 VOLUME 598383.993 4139426.124 19.87
LOCATION L0000328 VOLUME 598384.598 4139417.645 19.97
LOCATION L0000329 VOLUME 598385.203 4139409.167 20.07
LOCATION L0000330 VOLUME 598385.808 4139400.689 20.14
LOCATION L0000331 VOLUME 598386.413 4139392.210 20.19
LOCATION L0000332 VOLUME 598387.018 4139383.732 20.25
LOCATION L0000333 VOLUME 598387.623 4139375.253 20.31
LOCATION L0000334 VOLUME 598388.228 4139366.775 20.36
LOCATION L0000335 VOLUME 598388.833 4139358.296 20.42
LOCATION L0000336 VOLUME 598389.438 4139349.818 20.46
LOCATION L0000337 VOLUME 598390.043 4139341.339 20.52
LOCATION L0000338 VOLUME 598390.648 4139332.861 20.58
LOCATION L0000339 VOLUME 598391.253 4139324.383 20.65
LOCATION L0000340 VOLUME 598391.858 4139315.904 20.72
LOCATION L0000341 VOLUME 598392.463 4139307.426 20.76
LOCATION L0000342 VOLUME 598393.068 4139298.947 20.80
LOCATION L0000343 VOLUME 598393.672 4139290.469 20.85
LOCATION L0000344 VOLUME 598394.277 4139281.990 20.87
LOCATION L0000345 VOLUME 598394.882 4139273.512 20.88
LOCATION L0000346 VOLUME 598395.487 4139265.033 20.88
LOCATION L0000347 VOLUME 598396.092 4139256.555 20.88
LOCATION L0000348 VOLUME 598396.697 4139248.077 20.78
LOCATION L0000349 VOLUME 598396.841 4139239.599 20.67
LOCATION L0000350 VOLUME 598396.213 4139231.122 20.55
LOCATION L0000351 VOLUME 598395.586 4139222.645 20.45
LOCATION L0000352 VOLUME 598394.958 4139214.168 20.38
LOCATION L0000353 VOLUME 598394.330 4139205.692 20.31
LOCATION L0000354 VOLUME 598393.702 4139197.215 20.24
LOCATION L0000355 VOLUME 598390.233 4139191.569 20.18
LOCATION L0000356 VOLUME 598381.758 4139190.912 20.19
LOCATION L0000357 VOLUME 598373.284 4139190.254 20.23
LOCATION L0000358 VOLUME 598364.809 4139189.597 20.28
LOCATION L0000359 VOLUME 598356.335 4139188.939 20.17
LOCATION L0000360 VOLUME 598347.860 4139188.282 20.05
LOCATION L0000361 VOLUME 598339.386 4139187.624 19.93
LOCATION L0000362 VOLUME 598330.911 4139186.967 19.75
LOCATION L0000363 VOLUME 598322.437 4139186.309 19.57
LOCATION L0000364 VOLUME 598313.962 4139185.652 19.39
LOCATION L0000365 VOLUME 598305.488 4139184.994 19.30
LOCATION L0000366 VOLUME 598297.013 4139184.337 19.20
LOCATION L0000367 VOLUME 598288.539 4139183.679 19.12

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   LOCATION L0000368     VOLUME   598280.064 4139183.022 19.13
   LOCATION L0000369     VOLUME   598271.589 4139182.364 19.16
   LOCATION L0000370     VOLUME   598263.115 4139181.706 19.17
   LOCATION L0000371     VOLUME   598254.640 4139181.049 19.13
   LOCATION L0000372     VOLUME   598246.166 4139180.391 19.09
   LOCATION L0000373     VOLUME   598237.691 4139179.734 19.03
   LOCATION L0000374     VOLUME   598229.217 4139179.076 18.92
   LOCATION L0000375     VOLUME   598220.742 4139178.419 18.80
   LOCATION L0000376     VOLUME   598212.268 4139177.761 18.69
   LOCATION L0000377     VOLUME   598203.793 4139177.104 18.60
   LOCATION L0000378     VOLUME   598195.319 4139176.446 18.50
   LOCATION L0000379     VOLUME   598186.844 4139175.789 18.38
   LOCATION L0000380     VOLUME   598178.370 4139175.131 18.25
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Lundy Haul Route
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.0000444
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 598616.170, 4138456.357, 21.94, 3.11, 3.95
** 598220.817, 4138981.826, 19.06, 3.11, 3.95
** 598170.772, 4139036.875, 18.23, 3.11, 3.95
** 598127.886, 4139940.828, 16.62, 3.11, 3.95
** 598198.120, 4140194.749, 15.62, 3.11, 3.95
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   LOCATION L0000382     VOLUME   598608.504 4138466.545 21.83
   LOCATION L0000383     VOLUME   598603.394 4138473.338 21.92
   LOCATION L0000384     VOLUME   598598.283 4138480.130 22.15
   LOCATION L0000385     VOLUME   598593.173 4138486.922 22.52
   LOCATION L0000386     VOLUME   598588.063 4138493.714 22.14
   LOCATION L0000387     VOLUME   598582.952 4138500.507 21.77
   LOCATION L0000388     VOLUME   598577.842 4138507.299 21.56
   LOCATION L0000389     VOLUME   598572.732 4138514.091 21.51
   LOCATION L0000390     VOLUME   598567.621 4138520.883 21.54
   LOCATION L0000391     VOLUME   598562.511 4138527.675 21.33
   LOCATION L0000392     VOLUME   598557.401 4138534.468 21.15
   LOCATION L0000393     VOLUME   598552.290 4138541.260 21.02
   LOCATION L0000394     VOLUME   598547.180 4138548.052 20.93
   LOCATION L0000395     VOLUME   598542.070 4138554.844 20.91
   LOCATION L0000396     VOLUME   598536.959 4138561.637 20.89
   LOCATION L0000397     VOLUME   598531.849 4138568.429 20.86
   LOCATION L0000398     VOLUME   598526.739 4138575.221 20.83
   LOCATION L0000399     VOLUME   598521.628 4138582.013 20.80
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LOCATION L0000400 VOLUME 598516.518 4138588.806 20.73
LOCATION L0000401 VOLUME 598511.408 4138595.598 20.65
LOCATION L0000402 VOLUME 598506.297 4138602.390 20.59
LOCATION L0000403 VOLUME 598501.187 4138609.182 20.55
LOCATION L0000404 VOLUME 598496.077 4138615.974 20.56
LOCATION L0000405 VOLUME 598490.966 4138622.767 20.55
LOCATION L0000406 VOLUME 598485.856 4138629.559 20.53
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** Source Parameters **
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** AERMOD Receptor Pathway
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RE STARTING
   INCLUDED Qume_Const.rou
RE FINISHED
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**************************************
** AERMOD Meteorology Pathway
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   PROFFILE ..\724945.PFL
   SURFDATA 23293 2009
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   PROFBASE 15.5 METERS
ME FINISHED
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** AERMOD Output Pathway
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   PLOTFILE PERIOD ALL Qume_Const.AD\PE00GALL.PLT 33
   SUMMFILE Qume_Const.sum
OU FINISHED
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** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 2/23/2022
** File: C:\Lakes\AERMOD View\Qume and Commerce\Construction\Tier 3 with
Filter\Tier 3 with Filter.ADI
**
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**************************************
** AERMOD Control Pathway
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   AVERTIME 1 24 PERIOD
   URBANOPT 1928000 Santa_Clara_County
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL "Tier 3 with Filter.err"
CO FINISHED
**
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** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** DESCRSRC Onsite Construction
** PREFIX
** Length of Side = 9.50
** Configuration = Adjacent
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** SZINIT = 2.89
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   LOCATION L0006302     VOLUME   598484.884 4139637.310 19.51
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   LOCATION L0006304     VOLUME   598503.772 4139639.375 19.90
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** DESCRSRC Qume and Commerce Haul Route
** PREFIX
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** Configuration = Adjacent
** Emission Rate = 0.0000217
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** PREFIX
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** Configuration = Adjacent
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LOCATION L0006281     VOLUME   598168.487 4140087.613 16.22
LOCATION L0006282     VOLUME   598170.753 4140095.805 16.21
LOCATION L0006283     VOLUME   598173.019 4140103.997 16.19
LOCATION L0006284     VOLUME   598175.285 4140112.190 16.17
LOCATION L0006285     VOLUME   598177.550 4140120.382 16.14
LOCATION L0006286     VOLUME   598179.816 4140128.575 16.09
LOCATION L0006287     VOLUME   598182.082 4140136.767 16.07
LOCATION L0006288     VOLUME   598184.348 4140144.959 16.04
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   LOCATION L0006290     VOLUME   598188.880 4140161.344 15.97
   LOCATION L0006291     VOLUME   598191.146 4140169.537 15.92
   LOCATION L0006292     VOLUME   598193.412 4140177.729 15.87
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SRCPARAM L0006583     0.000001592      3.11      4.42      2.89
SRCPARAM L0006584     0.000001592      3.11      4.42      2.89
SRCPARAM L0006585     0.000001592      3.11      4.42      2.89
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   SRCPARAM L0006586     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006587     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006588     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006589     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006590     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006591     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006592     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006593     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006594     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006595     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006596     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006597     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006598     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006599     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006600     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006601     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006602     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006603     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006604     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006605     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006606     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006607     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006608     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006609     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006610     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006611     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006612     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006613     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006614     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006615     0.000001592      3.11      4.42      2.89
   SRCPARAM L0006616     0.000001592      3.11      4.42      2.89
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   SRCPARAM L0005960     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005961     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005962     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005963     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005964     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005965     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005966     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005967     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005968     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005969     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005970     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005971     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005972     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005973     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005974     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0005975     0.0000001938      3.11      3.95      2.89
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SRCPARAM L0005976     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005977     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005978     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005979     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005980     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005981     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005982     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005983     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005984     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005985     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005986     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005987     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005988     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005989     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005990     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005991     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005992     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005993     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005994     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005995     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005996     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005997     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005998     0.0000001938      3.11      3.95      2.89
SRCPARAM L0005999     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006000     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006001     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006002     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006003     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006004     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006005     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006006     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006007     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006008     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006009     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006010     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006011     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006012     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006013     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006014     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006015     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006016     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006017     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006018     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006019     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006020     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006021     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006022     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006023     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006024     0.0000001938      3.11      3.95      2.89
SRCPARAM L0006025     0.0000001938      3.11      3.95      2.89
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   SRCPARAM L0006026     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006027     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006028     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006029     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006030     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006031     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006032     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006033     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006034     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006035     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006036     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006037     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006038     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006039     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006040     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006041     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006042     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006043     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006044     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006045     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006046     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006047     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006048     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006049     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006050     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006051     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006052     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006053     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006054     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006055     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006056     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006057     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006058     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006059     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006060     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006061     0.0000001938      3.11      3.95      2.89
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   SRCPARAM L0006066     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006067     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006068     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006069     0.0000001938      3.11      3.95      2.89
   SRCPARAM L0006070     0.0000001938      3.11      3.95      2.89
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** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0006071     0.0000001929      3.11      3.95      2.89
   SRCPARAM L0006072     0.0000001929      3.11      3.95      2.89
   SRCPARAM L0006073     0.0000001929      3.11      3.95      2.89
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SRCPARAM L0006074     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006075     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006076     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006077     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006078     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006079     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006080     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006081     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006082     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006083     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006084     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006085     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006086     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006087     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006088     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006089     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006090     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006091     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006092     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006093     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006094     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006095     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006096     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006097     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006098     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006099     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006100     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006101     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006102     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006103     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006104     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006105     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006106     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006107     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006108     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006109     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006110     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006111     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006112     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006113     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006114     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006115     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006116     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006117     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006118     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006119     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006120     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006121     0.0000001929      3.11      3.95      2.89
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SRCPARAM L0006123     0.0000001929      3.11      3.95      2.89
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SRCPARAM L0006173     0.0000001929      3.11      3.95      2.89
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SRCPARAM L0006212     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006213     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006214     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006215     0.0000001929      3.11      3.95      2.89
SRCPARAM L0006216     0.0000001929      3.11      3.95      2.89
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SRCPARAM L0006220     0.0000001929      3.11      3.95      2.89
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SRCPARAM L0006223     0.0000001929      3.11      3.95      2.89
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   SRCGROUP ALL
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   INCLUDED "Tier 3 with Filter.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
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ME STARTING
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   PROFFILE ..\..\724945.PFL
   SURFDATA 23293 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 15.5 METERS
ME FINISHED
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** AERMOD Output Pathway
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   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
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   PLOTFILE 24 ALL 1ST "TIER 3 WITH FILTER.AD\24H1GALL.PLT" 32
   PLOTFILE PERIOD ALL "TIER 3 WITH FILTER.AD\PE00GALL.PLT" 33
   SUMMFILE "Tier 3 with Filter.sum"
OU FINISHED
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** Project Parameters
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** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 2/24/2022
** File: C:\Lakes\AERMOD View\Qume and Commerce\Construction\Qume_Tier
4_2022\Qume_Tier 4_2022.ADI
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** AERMOD Control Pathway
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   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 1928000 Santa_Clara_County
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL "Qume_Tier 4_2022.err"
CO FINISHED
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** AERMOD Source Pathway
**************************************
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** LINE VOLUME Source ID = SLINE1
** DESCRSRC Onsite Construction
** PREFIX
** Length of Side = 9.50
** Configuration = Adjacent
** Emission Rate = 0.000219447
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 15
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LOCATION L0006485 VOLUME 598509.364 4139603.707 19.97
LOCATION L0006486 VOLUME 598499.925 4139602.631 19.82
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LOCATION L0006489 VOLUME 598471.608 4139599.405 19.29
LOCATION L0006490 VOLUME 598462.170 4139598.329 19.10
LOCATION L0006491 VOLUME 598452.731 4139597.253 19.00
LOCATION L0006492 VOLUME 598443.292 4139596.178 18.99
LOCATION L0006493 VOLUME 598433.853 4139595.102 19.01
LOCATION L0006494 VOLUME 598424.414 4139594.027 19.08
LOCATION L0006495 VOLUME 598422.003 4139587.045 19.22
LOCATION L0006496 VOLUME 598422.569 4139577.562 19.39
LOCATION L0006497 VOLUME 598423.136 4139568.079 19.57
LOCATION L0006498 VOLUME 598423.702 4139558.596 19.66
LOCATION L0006499 VOLUME 598424.268 4139549.112 19.72
LOCATION L0006500 VOLUME 598424.834 4139539.629 19.77
LOCATION L0006501 VOLUME 598425.400 4139530.146 19.81
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LOCATION L0006509 VOLUME 598429.929 4139454.281 19.70
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LOCATION L0006511 VOLUME 598431.062 4139435.315 19.84
LOCATION L0006512 VOLUME 598431.628 4139425.832 19.93
LOCATION L0006513 VOLUME 598432.194 4139416.349 20.02
LOCATION L0006514 VOLUME 598432.760 4139406.866 20.10
LOCATION L0006515 VOLUME 598433.326 4139397.383 20.16
LOCATION L0006516 VOLUME 598433.893 4139387.899 20.22
LOCATION L0006517 VOLUME 598434.459 4139378.416 20.30
LOCATION L0006518 VOLUME 598435.025 4139368.933 20.44
LOCATION L0006519 VOLUME 598435.591 4139359.450 20.58
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LOCATION L0006521 VOLUME 598436.916 4139341.043 20.87
LOCATION L0006522 VOLUME 598443.204 4139348.164 20.81
LOCATION L0006523 VOLUME 598449.492 4139355.285 20.74
LOCATION L0006524 VOLUME 598455.780 4139362.406 20.67
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LOCATION L0006527 VOLUME 598474.643 4139383.770 20.38
LOCATION L0006528 VOLUME 598480.931 4139390.891 20.32
LOCATION L0006529 VOLUME 598487.219 4139398.013 20.26
LOCATION L0006530 VOLUME 598493.507 4139405.134 20.22
LOCATION L0006531 VOLUME 598499.795 4139412.255 20.18

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LOCATION L0006564 VOLUME 598566.019 4139578.213 20.02
LOCATION L0006565 VOLUME 598556.537 4139577.627 20.05
LOCATION L0006566 VOLUME 598547.055 4139577.042 20.03
LOCATION L0006567 VOLUME 598537.573 4139576.456 20.00
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LOCATION L0006569 VOLUME 598518.609 4139575.285 19.92
LOCATION L0006570 VOLUME 598509.127 4139574.699 19.88
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LOCATION L0006572 VOLUME 598490.164 4139573.528 19.58
LOCATION L0006573 VOLUME 598480.682 4139572.942 19.43
LOCATION L0006574 VOLUME 598471.200 4139572.356 19.36
LOCATION L0006575 VOLUME 598461.718 4139571.771 19.29
LOCATION L0006576 VOLUME 598455.822 4139568.000 19.32
LOCATION L0006577 VOLUME 598456.361 4139558.515 19.44
LOCATION L0006578 VOLUME 598456.900 4139549.030 19.56
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LOCATION L0006580 VOLUME 598457.977 4139530.061 19.77
LOCATION L0006581 VOLUME 598458.515 4139520.576 19.82

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   LOCATION L0006583     VOLUME   598459.593 4139501.607 19.87
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   LOCATION L0006585     VOLUME   598460.670 4139482.637 19.66
   LOCATION L0006586     VOLUME   598461.209 4139473.153 19.56
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   LOCATION L0006592     VOLUME   598473.185 4139438.997 19.85
   LOCATION L0006593     VOLUME   598479.937 4139445.680 19.78
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   LOCATION L0006596     VOLUME   598500.194 4139465.728 19.66
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   LOCATION L0006598     VOLUME   598513.698 4139479.093 19.63
   LOCATION L0006599     VOLUME   598520.450 4139485.776 19.65
   LOCATION L0006600     VOLUME   598527.202 4139492.459 19.68
   LOCATION L0006601     VOLUME   598533.954 4139499.142 19.71
   LOCATION L0006602     VOLUME   598540.706 4139505.824 19.76
   LOCATION L0006603     VOLUME   598547.459 4139512.507 19.79
   LOCATION L0006604     VOLUME   598554.211 4139519.190 19.82
   LOCATION L0006605     VOLUME   598560.963 4139525.872 19.83
   LOCATION L0006606     VOLUME   598567.715 4139532.555 19.83
   LOCATION L0006607     VOLUME   598574.467 4139539.238 19.82
   LOCATION L0006608     VOLUME   598572.201 4139541.532 19.84
   LOCATION L0006609     VOLUME   598562.776 4139540.343 19.88
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   LOCATION L0006611     VOLUME   598543.925 4139537.964 19.91
   LOCATION L0006612     VOLUME   598534.500 4139536.775 19.91
   LOCATION L0006613     VOLUME   598525.075 4139535.585 19.88
   LOCATION L0006614     VOLUME   598515.649 4139534.396 19.84
   LOCATION L0006615     VOLUME   598506.224 4139533.207 19.80
   LOCATION L0006616     VOLUME   598496.799 4139532.018 19.74
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Qume and Commerce Haul Route
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 0.0000222
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
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** 598397.076, 4139242.767, 20.95, 3.11, 3.95
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   LOCATION L0006845     VOLUME   598351.327 4139883.960 18.32
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   LOCATION L0006848     VOLUME   598353.142 4139858.525 18.40
   LOCATION L0006849     VOLUME   598353.747 4139850.046 18.41
   LOCATION L0006850     VOLUME   598354.352 4139841.568 18.42
   LOCATION L0006851     VOLUME   598354.956 4139833.089 18.41
   LOCATION L0006852     VOLUME   598355.561 4139824.611 18.40
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   LOCATION L0006856     VOLUME   598357.981 4139790.697 18.38
   LOCATION L0006857     VOLUME   598358.586 4139782.219 18.37
   LOCATION L0006858     VOLUME   598359.191 4139773.740 18.38
   LOCATION L0006859     VOLUME   598359.796 4139765.262 18.39
   LOCATION L0006860     VOLUME   598360.401 4139756.783 18.40
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   LOCATION L0006864     VOLUME   598362.821 4139722.870 18.56
   LOCATION L0006865     VOLUME   598363.426 4139714.391 18.60
   LOCATION L0006866     VOLUME   598364.031 4139705.913 18.62
   LOCATION L0006867     VOLUME   598364.635 4139697.434 18.65
   LOCATION L0006868     VOLUME   598365.240 4139688.956 18.68
   LOCATION L0006869     VOLUME   598365.845 4139680.477 18.69
   LOCATION L0006870     VOLUME   598366.450 4139671.999 18.70
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   LOCATION L0006877     VOLUME   598370.685 4139612.650 18.72
   LOCATION L0006878     VOLUME   598371.290 4139604.171 18.74
   LOCATION L0006879     VOLUME   598371.895 4139595.693 18.75
   LOCATION L0006880     VOLUME   598372.500 4139587.214 18.80
   LOCATION L0006881     VOLUME   598373.105 4139578.736 18.84
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   LOCATION L0006883     VOLUME   598374.314 4139561.779 18.92
   LOCATION L0006884     VOLUME   598374.919 4139553.301 18.93
   LOCATION L0006885     VOLUME   598375.524 4139544.822 18.95
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LOCATION L0006918 VOLUME 598395.487 4139265.033 20.85
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LOCATION L0006927 VOLUME 598390.233 4139191.569 20.25
LOCATION L0006928 VOLUME 598381.758 4139190.912 20.22
LOCATION L0006929 VOLUME 598373.284 4139190.254 20.20
LOCATION L0006930 VOLUME 598364.809 4139189.597 20.19
LOCATION L0006931 VOLUME 598356.335 4139188.939 20.16
LOCATION L0006932 VOLUME 598347.860 4139188.282 20.13
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LOCATION L0006936 VOLUME 598313.962 4139185.652 19.73
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   LOCATION L0006941     VOLUME   598271.589 4139182.364 19.41
   LOCATION L0006942     VOLUME   598263.115 4139181.706 19.40
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   LOCATION L0006945     VOLUME   598237.691 4139179.734 19.18
   LOCATION L0006946     VOLUME   598229.217 4139179.076 19.05
   LOCATION L0006947     VOLUME   598220.742 4139178.419 18.91
   LOCATION L0006948     VOLUME   598212.268 4139177.761 18.78
   LOCATION L0006949     VOLUME   598203.793 4139177.104 18.66
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   LOCATION L0006951     VOLUME   598186.844 4139175.789 18.44
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** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Lundy Haul Route
** PREFIX
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** Configuration = Adjacent
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   LOCATION L0006620     VOLUME   598598.283 4138480.130 21.56
   LOCATION L0006621     VOLUME   598593.173 4138486.922 21.52
   LOCATION L0006622     VOLUME   598588.063 4138493.714 21.46
   LOCATION L0006623     VOLUME   598582.952 4138500.507 21.41
   LOCATION L0006624     VOLUME   598577.842 4138507.299 21.37
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   LOCATION L0006628     VOLUME   598557.401 4138534.468 21.24
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LOCATION L0006657 VOLUME 598409.201 4138731.442 20.95
LOCATION L0006658 VOLUME 598404.090 4138738.235 20.82
LOCATION L0006659 VOLUME 598398.980 4138745.027 20.69
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** AERMOD Output Pathway
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** DTMRGN   Global Definition
** UNITS    m
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** Date: 2/23/2022
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** AERMOD Control Pathway
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   POLLUTID PM_2.5
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CO FINISHED
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** AERMOD Source Pathway
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** DESCRSRC Qume and Commerce Haul Route
** PREFIX
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   LOCATION L0008159     VOLUME   598373.105 4139578.736 18.84
   LOCATION L0008160     VOLUME   598373.710 4139570.257 18.88
   LOCATION L0008161     VOLUME   598374.314 4139561.779 18.92
   LOCATION L0008162     VOLUME   598374.919 4139553.301 18.93
   LOCATION L0008163     VOLUME   598375.524 4139544.822 18.95
   LOCATION L0008164     VOLUME   598376.129 4139536.344 18.96
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   LOCATION L0008166     VOLUME   598377.339 4139519.387 19.04
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LOCATION L0008184 VOLUME 598388.228 4139366.775 20.36
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LOCATION L0008216 VOLUME 598297.013 4139184.337 19.51

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   LOCATION L0008222     VOLUME   598246.166 4139180.391 19.27
   LOCATION L0008223     VOLUME   598237.691 4139179.734 19.18
   LOCATION L0008224     VOLUME   598229.217 4139179.076 19.05
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   LOCATION L0008226     VOLUME   598212.268 4139177.761 18.78
   LOCATION L0008227     VOLUME   598203.793 4139177.104 18.66
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** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
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** DESCRSRC Lundy Haul Route
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.78E-06
** Vertical Dimension = 6.22
** SZINIT = 2.89
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   LOCATION L0008234     VOLUME   598598.283 4138480.130 21.56
   LOCATION L0008235     VOLUME   598593.173 4138486.922 21.52
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   LOCATION L0008237     VOLUME   598582.952 4138500.507 21.41
   LOCATION L0008238     VOLUME   598577.842 4138507.299 21.37
   LOCATION L0008239     VOLUME   598572.732 4138514.091 21.36
   LOCATION L0008240     VOLUME   598567.621 4138520.883 21.35
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   LOCATION L0008246     VOLUME   598536.959 4138561.637 21.05
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** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Trade Zone Hauling
** PREFIX
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** Configuration = Adjacent
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** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
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   LOCATION L0008689     VOLUME   598852.092 4140172.671 21.49
   LOCATION L0008690     VOLUME   598844.684 4140168.504 21.39
   LOCATION L0008691     VOLUME   598837.275 4140164.337 21.31
   LOCATION L0008692     VOLUME   598829.867 4140160.170 21.22
   LOCATION L0008693     VOLUME   598822.459 4140156.002 21.12
   LOCATION L0008694     VOLUME   598815.050 4140151.835 21.06
   LOCATION L0008695     VOLUME   598807.642 4140147.668 20.99
   LOCATION L0008696     VOLUME   598800.233 4140143.501 20.91
   LOCATION L0008697     VOLUME   598792.825 4140139.333 20.81
   LOCATION L0008698     VOLUME   598784.726 4140138.329 20.71
   LOCATION L0008699     VOLUME   598776.255 4140139.029 20.62
   LOCATION L0008700     VOLUME   598767.784 4140139.728 20.53
   LOCATION L0008701     VOLUME   598759.312 4140140.428 20.42
   LOCATION L0008702     VOLUME   598750.841 4140141.127 20.31
   LOCATION L0008703     VOLUME   598742.370 4140141.827 20.21
   LOCATION L0008704     VOLUME   598733.899 4140142.526 20.12
   LOCATION L0008705     VOLUME   598725.428 4140143.225 20.02
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LOCATION L0008813 VOLUME 597810.541 4140218.767 13.25
LOCATION L0008814 VOLUME 597802.070 4140219.466 13.23
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LOCATION L0008928 VOLUME 596849.361 4140260.637 12.30
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LOCATION L0008932 VOLUME 596824.089 4140237.892 12.24
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LOCATION L0008934 VOLUME 596811.453 4140226.520 12.17
LOCATION L0008935 VOLUME 596805.135 4140220.833 12.17
LOCATION L0008936 VOLUME 596798.817 4140215.147 12.19
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LOCATION L0008938 VOLUME 596786.181 4140203.775 12.23
LOCATION L0008939 VOLUME 596779.863 4140198.089 12.23
LOCATION L0008940 VOLUME 596773.545 4140192.402 12.25
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LOCATION L0008943 VOLUME 596754.591 4140175.344 12.37
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LOCATION L0008947 VOLUME 596729.319 4140152.599 12.56
LOCATION L0008948 VOLUME 596723.001 4140146.913 12.60
LOCATION L0008949 VOLUME 596716.683 4140141.227 12.72
LOCATION L0008950 VOLUME 596710.365 4140135.540 12.92
LOCATION L0008951 VOLUME 596704.047 4140129.854 13.12
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** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Building 4 Loading
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.08E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 598342.393, 4139115.556, 20.37, 3.11, 3.95
** 598397.096, 4139116.745, 20.31, 3.11, 3.95
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   LOCATION L0009162     VOLUME   598346.642 4139115.648 20.42
   LOCATION L0009163     VOLUME   598355.140 4139115.833 20.43
   LOCATION L0009164     VOLUME   598363.638 4139116.018 20.44
   LOCATION L0009165     VOLUME   598372.136 4139116.203 20.41
   LOCATION L0009166     VOLUME   598380.634 4139116.387 20.39
   LOCATION L0009167     VOLUME   598389.132 4139116.572 20.36
** End of LINE VOLUME Source ID = SLINE5
   LOCATION STCK1        POINT      598392.340  4139133.390       20.330
** DESCRSRC Building 4 Generator
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Building 3 Loading
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.08E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 598422.069, 4139233.286, 21.24, 3.11, 3.95
** 598477.960, 4139235.664, 21.36, 3.11, 3.95
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   LOCATION L0009117     VOLUME   598426.315 4139233.466 21.11
   LOCATION L0009118     VOLUME   598434.807 4139233.828 21.25
   LOCATION L0009119     VOLUME   598443.299 4139234.189 21.32
   LOCATION L0009120     VOLUME   598451.792 4139234.551 21.38
   LOCATION L0009121     VOLUME   598460.284 4139234.912 21.44
   LOCATION L0009122     VOLUME   598468.776 4139235.273 21.42
   LOCATION L0009123     VOLUME   598477.269 4139235.635 21.40
** End of LINE VOLUME Source ID = SLINE6
   LOCATION STCK2        POINT      598485.100  4139263.020       21.240
** DESCRSRC Building 3 generator
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Building 1 Loading
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 4.21E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 598434.180, 4139549.687, 19.72, 3.11, 3.95
** 598597.099, 4139559.200, 19.90, 3.11, 3.95
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   LOCATION L0009024     VOLUME   598438.423 4139549.935 19.75
   LOCATION L0009025     VOLUME   598446.908 4139550.430 19.65
   LOCATION L0009026     VOLUME   598455.394 4139550.926 19.55
   LOCATION L0009027     VOLUME   598463.880 4139551.421 19.52
   LOCATION L0009028     VOLUME   598472.365 4139551.917 19.51
   LOCATION L0009029     VOLUME   598480.851 4139552.412 19.51
   LOCATION L0009030     VOLUME   598489.336 4139552.908 19.60
   LOCATION L0009031     VOLUME   598497.822 4139553.403 19.71
   LOCATION L0009032     VOLUME   598506.307 4139553.899 19.82
   LOCATION L0009033     VOLUME   598514.793 4139554.394 19.86
   LOCATION L0009034     VOLUME   598523.278 4139554.890 19.90
   LOCATION L0009035     VOLUME   598531.764 4139555.385 19.93
   LOCATION L0009036     VOLUME   598540.249 4139555.881 19.93
   LOCATION L0009037     VOLUME   598548.735 4139556.376 19.94
   LOCATION L0009038     VOLUME   598557.221 4139556.872 19.93
   LOCATION L0009039     VOLUME   598565.706 4139557.367 19.91
   LOCATION L0009040     VOLUME   598574.192 4139557.863 19.89
   LOCATION L0009041     VOLUME   598582.677 4139558.358 19.87
   LOCATION L0009042     VOLUME   598591.163 4139558.854 19.86
** End of LINE VOLUME Source ID = SLINE7
   LOCATION STCK3        POINT      598587.736  4139573.658       19.950
** DESCRSRC Building 1 generator
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Building 2 Loading
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.25E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 598460.123, 4139372.421, 20.46, 3.11, 3.95
** 598558.825, 4139380.745, 20.33, 3.11, 3.95
** ------------------------------------------------------------------
   LOCATION L0009105     VOLUME   598464.358 4139372.778 20.53
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   LOCATION L0009106     VOLUME   598472.828 4139373.493 20.54
   LOCATION L0009107     VOLUME   598481.297 4139374.207 20.54
   LOCATION L0009108     VOLUME   598489.767 4139374.921 20.56
   LOCATION L0009109     VOLUME   598498.237 4139375.636 20.59
   LOCATION L0009110     VOLUME   598506.707 4139376.350 20.62
   LOCATION L0009111     VOLUME   598515.177 4139377.064 20.59
   LOCATION L0009112     VOLUME   598523.647 4139377.778 20.53
   LOCATION L0009113     VOLUME   598532.117 4139378.493 20.46
   LOCATION L0009114     VOLUME   598540.587 4139379.207 20.43
   LOCATION L0009115     VOLUME   598549.057 4139379.921 20.39
   LOCATION L0009116     VOLUME   598557.527 4139380.636 20.36
** End of LINE VOLUME Source ID = SLINE8
   LOCATION STCK4        POINT      598545.740  4139408.100       19.970
** DESCRSRC Building 2 generator
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Building 4 Onsite
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.85E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 598309.095, 4139183.340, 19.76, 3.11, 3.95
** 598312.663, 4139102.475, 19.80, 3.11, 3.95
** 598393.528, 4139091.772, 20.41, 3.11, 3.95
** ----------------------------------------------------------------------
   LOCATION L0009143     VOLUME   598309.283 4139179.094 19.72
   LOCATION L0009144     VOLUME   598309.657 4139170.602 19.80
   LOCATION L0009145     VOLUME   598310.032 4139162.110 19.87
   LOCATION L0009146     VOLUME   598310.407 4139153.619 19.88
   LOCATION L0009147     VOLUME   598310.781 4139145.127 19.89
   LOCATION L0009148     VOLUME   598311.156 4139136.635 19.91
   LOCATION L0009149     VOLUME   598311.531 4139128.143 19.89
   LOCATION L0009150     VOLUME   598311.905 4139119.652 19.85
   LOCATION L0009151     VOLUME   598312.280 4139111.160 19.81
   LOCATION L0009152     VOLUME   598312.655 4139102.668 19.77
   LOCATION L0009153     VOLUME   598320.898 4139101.385 19.93
   LOCATION L0009154     VOLUME   598329.324 4139100.270 20.10
   LOCATION L0009155     VOLUME   598337.751 4139099.154 20.26
   LOCATION L0009156     VOLUME   598346.177 4139098.039 20.32
   LOCATION L0009157     VOLUME   598354.604 4139096.924 20.35
   LOCATION L0009158     VOLUME   598363.030 4139095.809 20.39
   LOCATION L0009159     VOLUME   598371.457 4139094.693 20.37
   LOCATION L0009160     VOLUME   598379.883 4139093.578 20.34
   LOCATION L0009161     VOLUME   598388.310 4139092.463 20.32
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Building 3 Onsite
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 2.9E-08
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 598404.231, 4139219.015, 20.73, 3.11, 3.95
** 598483.906, 4139220.205, 21.40, 3.11, 3.95
** 598467.258, 4139198.799, 21.04, 3.11, 3.95
** 598408.987, 4139198.799, 20.41, 3.11, 3.95
** ------------------------------------------------------------------
   LOCATION L0009124     VOLUME   598408.480 4139219.079 20.69
   LOCATION L0009125     VOLUME   598416.979 4139219.206 20.80
   LOCATION L0009126     VOLUME   598425.478 4139219.333 20.93
   LOCATION L0009127     VOLUME   598433.977 4139219.459 21.06
   LOCATION L0009128     VOLUME   598442.476 4139219.586 21.16
   LOCATION L0009129     VOLUME   598450.975 4139219.713 21.24
   LOCATION L0009130     VOLUME   598459.475 4139219.840 21.32
   LOCATION L0009131     VOLUME   598467.974 4139219.967 21.34
   LOCATION L0009132     VOLUME   598476.473 4139220.094 21.35
   LOCATION L0009133     VOLUME   598483.252 4139219.364 21.35
   LOCATION L0009134     VOLUME   598478.034 4139212.654 21.28
   LOCATION L0009135     VOLUME   598472.815 4139205.945 21.19
   LOCATION L0009136     VOLUME   598467.597 4139199.235 21.09
   LOCATION L0009137     VOLUME   598459.310 4139198.799 21.03
   LOCATION L0009138     VOLUME   598450.810 4139198.799 20.93
   LOCATION L0009139     VOLUME   598442.310 4139198.799 20.83
   LOCATION L0009140     VOLUME   598433.810 4139198.799 20.72
   LOCATION L0009141     VOLUME   598425.310 4139198.799 20.62
   LOCATION L0009142     VOLUME   598416.810 4139198.799 20.51
** End of LINE VOLUME Source ID = SLINE10
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Building 2 Onsite
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 1.94E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 598403.041, 4139352.205, 20.58, 3.11, 3.95
** 598596.879, 4139365.286, 21.13, 3.11, 3.95
** 598620.663, 4139406.908, 20.60, 3.11, 3.95
** 598612.339, 4139473.502, 19.65, 3.11, 3.95
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** 598394.717, 4139462.799, 19.74, 3.11, 3.95
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   LOCATION L0009043     VOLUME   598407.282 4139352.491 20.55
   LOCATION L0009044     VOLUME   598415.763 4139353.063 20.59
   LOCATION L0009045     VOLUME   598424.243 4139353.636 20.62
   LOCATION L0009046     VOLUME   598432.724 4139354.208 20.65
   LOCATION L0009047     VOLUME   598441.205 4139354.780 20.69
   LOCATION L0009048     VOLUME   598449.685 4139355.353 20.74
   LOCATION L0009049     VOLUME   598458.166 4139355.925 20.80
   LOCATION L0009050     VOLUME   598466.647 4139356.497 20.81
   LOCATION L0009051     VOLUME   598475.128 4139357.069 20.82
   LOCATION L0009052     VOLUME   598483.608 4139357.642 20.83
   LOCATION L0009053     VOLUME   598492.089 4139358.214 20.84
   LOCATION L0009054     VOLUME   598500.570 4139358.786 20.85
   LOCATION L0009055     VOLUME   598509.050 4139359.359 20.86
   LOCATION L0009056     VOLUME   598517.531 4139359.931 20.84
   LOCATION L0009057     VOLUME   598526.012 4139360.503 20.81
   LOCATION L0009058     VOLUME   598534.493 4139361.076 20.79
   LOCATION L0009059     VOLUME   598542.973 4139361.648 20.77
   LOCATION L0009060     VOLUME   598551.454 4139362.220 20.75
   LOCATION L0009061     VOLUME   598559.935 4139362.793 20.75
   LOCATION L0009062     VOLUME   598568.415 4139363.365 20.83
   LOCATION L0009063     VOLUME   598576.896 4139363.937 20.91
   LOCATION L0009064     VOLUME   598585.377 4139364.510 20.98
   LOCATION L0009065     VOLUME   598593.857 4139365.082 21.01
   LOCATION L0009066     VOLUME   598599.594 4139370.036 20.99
   LOCATION L0009067     VOLUME   598603.811 4139377.416 20.94
   LOCATION L0009068     VOLUME   598608.028 4139384.796 20.89
   LOCATION L0009069     VOLUME   598612.245 4139392.176 20.78
   LOCATION L0009070     VOLUME   598616.463 4139399.556 20.69
   LOCATION L0009071     VOLUME   598620.659 4139406.941 20.61
   LOCATION L0009072     VOLUME   598619.605 4139415.375 20.46
   LOCATION L0009073     VOLUME   598618.551 4139423.809 20.34
   LOCATION L0009074     VOLUME   598617.496 4139432.244 20.23
   LOCATION L0009075     VOLUME   598616.442 4139440.678 20.11
   LOCATION L0009076     VOLUME   598615.388 4139449.112 20.00
   LOCATION L0009077     VOLUME   598614.333 4139457.547 19.89
   LOCATION L0009078     VOLUME   598613.279 4139465.981 19.78
   LOCATION L0009079     VOLUME   598611.420 4139473.457 19.68
   LOCATION L0009080     VOLUME   598602.930 4139473.039 19.67
   LOCATION L0009081     VOLUME   598594.440 4139472.622 19.70
   LOCATION L0009082     VOLUME   598585.950 4139472.204 19.73
   LOCATION L0009083     VOLUME   598577.461 4139471.787 19.72
   LOCATION L0009084     VOLUME   598568.971 4139471.369 19.68
   LOCATION L0009085     VOLUME   598560.481 4139470.952 19.63
   LOCATION L0009086     VOLUME   598551.991 4139470.534 19.60
   LOCATION L0009087     VOLUME   598543.502 4139470.117 19.58
   LOCATION L0009088     VOLUME   598535.012 4139469.699 19.56
   LOCATION L0009089     VOLUME   598526.522 4139469.282 19.58
   LOCATION L0009090     VOLUME   598518.032 4139468.864 19.61
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   LOCATION L0009091     VOLUME   598509.543 4139468.447 19.65
   LOCATION L0009092     VOLUME   598501.053 4139468.029 19.65
   LOCATION L0009093     VOLUME   598492.563 4139467.612 19.64
   LOCATION L0009094     VOLUME   598484.074 4139467.194 19.63
   LOCATION L0009095     VOLUME   598475.584 4139466.777 19.62
   LOCATION L0009096     VOLUME   598467.094 4139466.359 19.62
   LOCATION L0009097     VOLUME   598458.604 4139465.941 19.62
   LOCATION L0009098     VOLUME   598450.115 4139465.524 19.62
   LOCATION L0009099     VOLUME   598441.625 4139465.106 19.62
   LOCATION L0009100     VOLUME   598433.135 4139464.689 19.62
   LOCATION L0009101     VOLUME   598424.645 4139464.271 19.65
   LOCATION L0009102     VOLUME   598416.156 4139463.854 19.69
   LOCATION L0009103     VOLUME   598407.666 4139463.436 19.71
   LOCATION L0009104     VOLUME   598399.176 4139463.019 19.69
** End of LINE VOLUME Source ID = SLINE11
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Building 1 Onsite
** PREFIX
** Length of Side = 8.50
** Configuration = Adjacent
** Emission Rate = 3.89E-07
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 598383.366, 4139530.158, 18.99, 3.11, 3.95
** 598656.880, 4139540.860, 19.73, 3.11, 3.95
** 598654.502, 4139511.131, 19.71, 3.11, 3.95
** 598390.501, 4139495.671, 19.26, 3.11, 3.95
** ------------------------------------------------------------------
   LOCATION L0008957     VOLUME   598387.613 4139530.324 19.09
   LOCATION L0008958     VOLUME   598396.107 4139530.656 19.29
   LOCATION L0008959     VOLUME   598404.600 4139530.989 19.49
   LOCATION L0008960     VOLUME   598413.094 4139531.321 19.65
   LOCATION L0008961     VOLUME   598421.587 4139531.653 19.76
   LOCATION L0008962     VOLUME   598430.081 4139531.986 19.87
   LOCATION L0008963     VOLUME   598438.574 4139532.318 19.87
   LOCATION L0008964     VOLUME   598447.068 4139532.650 19.82
   LOCATION L0008965     VOLUME   598455.561 4139532.983 19.77
   LOCATION L0008966     VOLUME   598464.055 4139533.315 19.72
   LOCATION L0008967     VOLUME   598472.548 4139533.647 19.67
   LOCATION L0008968     VOLUME   598481.042 4139533.980 19.63
   LOCATION L0008969     VOLUME   598489.535 4139534.312 19.67
   LOCATION L0008970     VOLUME   598498.029 4139534.644 19.74
   LOCATION L0008971     VOLUME   598506.522 4139534.977 19.80
   LOCATION L0008972     VOLUME   598515.016 4139535.309 19.84
   LOCATION L0008973     VOLUME   598523.509 4139535.642 19.88
   LOCATION L0008974     VOLUME   598532.003 4139535.974 19.91
   LOCATION L0008975     VOLUME   598540.496 4139536.306 19.91
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   LOCATION L0008976     VOLUME   598548.990 4139536.639 19.90
   LOCATION L0008977     VOLUME   598557.483 4139536.971 19.89
   LOCATION L0008978     VOLUME   598565.977 4139537.303 19.85
   LOCATION L0008979     VOLUME   598574.470 4139537.636 19.81
   LOCATION L0008980     VOLUME   598582.964 4139537.968 19.76
   LOCATION L0008981     VOLUME   598591.457 4139538.300 19.69
   LOCATION L0008982     VOLUME   598599.951 4139538.633 19.62
   LOCATION L0008983     VOLUME   598608.444 4139538.965 19.60
   LOCATION L0008984     VOLUME   598616.938 4139539.297 19.67
   LOCATION L0008985     VOLUME   598625.431 4139539.630 19.74
   LOCATION L0008986     VOLUME   598633.925 4139539.962 19.78
   LOCATION L0008987     VOLUME   598642.418 4139540.294 19.79
   LOCATION L0008988     VOLUME   598650.912 4139540.627 19.80
   LOCATION L0008989     VOLUME   598656.679 4139538.341 19.75
   LOCATION L0008990     VOLUME   598656.001 4139529.869 19.73
   LOCATION L0008991     VOLUME   598655.323 4139521.396 19.72
   LOCATION L0008992     VOLUME   598654.645 4139512.923 19.71
   LOCATION L0008993     VOLUME   598647.811 4139510.739 19.68
   LOCATION L0008994     VOLUME   598639.325 4139510.242 19.66
   LOCATION L0008995     VOLUME   598630.840 4139509.745 19.63
   LOCATION L0008996     VOLUME   598622.355 4139509.248 19.61
   LOCATION L0008997     VOLUME   598613.869 4139508.751 19.60
   LOCATION L0008998     VOLUME   598605.384 4139508.254 19.58
   LOCATION L0008999     VOLUME   598596.898 4139507.757 19.63
   LOCATION L0009000     VOLUME   598588.413 4139507.261 19.69
   LOCATION L0009001     VOLUME   598579.927 4139506.764 19.73
   LOCATION L0009002     VOLUME   598571.442 4139506.267 19.74
   LOCATION L0009003     VOLUME   598562.956 4139505.770 19.75
   LOCATION L0009004     VOLUME   598554.471 4139505.273 19.75
   LOCATION L0009005     VOLUME   598545.985 4139504.776 19.75
   LOCATION L0009006     VOLUME   598537.500 4139504.279 19.75
   LOCATION L0009007     VOLUME   598529.014 4139503.782 19.76
   LOCATION L0009008     VOLUME   598520.529 4139503.285 19.78
   LOCATION L0009009     VOLUME   598512.043 4139502.788 19.80
   LOCATION L0009010     VOLUME   598503.558 4139502.292 19.81
   LOCATION L0009011     VOLUME   598495.073 4139501.795 19.82
   LOCATION L0009012     VOLUME   598486.587 4139501.298 19.83
   LOCATION L0009013     VOLUME   598478.102 4139500.801 19.83
   LOCATION L0009014     VOLUME   598469.616 4139500.304 19.84
   LOCATION L0009015     VOLUME   598461.131 4139499.807 19.85
   LOCATION L0009016     VOLUME   598452.645 4139499.310 19.85
   LOCATION L0009017     VOLUME   598444.160 4139498.813 19.85
   LOCATION L0009018     VOLUME   598435.674 4139498.316 19.85
   LOCATION L0009019     VOLUME   598427.189 4139497.820 19.78
   LOCATION L0009020     VOLUME   598418.703 4139497.323 19.70
   LOCATION L0009021     VOLUME   598410.218 4139496.826 19.61
   LOCATION L0009022     VOLUME   598401.732 4139496.329 19.50
   LOCATION L0009023     VOLUME   598393.247 4139495.832 19.39
** End of LINE VOLUME Source ID = SLINE12
** Source Parameters **
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** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0008119     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008120     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008121     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008122     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008123     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008124     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008125     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008126     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008127     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008128     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008129     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008130     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008131     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008132     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008133     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008134     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008135     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008136     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008137     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008138     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008139     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008140     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008141     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008142     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008143     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008144     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008145     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008146     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008147     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008148     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008149     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008150     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008151     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008152     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008153     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008154     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008155     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008156     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008157     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008158     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008159     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008160     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008161     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008162     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008163     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008164     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008165     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008166     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008167     0.000000009196      3.11      3.95      2.89
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SRCPARAM L0008168     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008169     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008170     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008171     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008172     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008173     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008174     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008175     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008176     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008177     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008178     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008179     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008180     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008181     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008182     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008183     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008184     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008185     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008186     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008187     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008188     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008189     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008190     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008191     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008192     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008193     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008194     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008195     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008196     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008197     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008198     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008199     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008200     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008201     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008202     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008203     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008204     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008205     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008206     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008207     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008208     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008209     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008210     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008211     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008212     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008213     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008214     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008215     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008216     0.000000009196      3.11      3.95      2.89
SRCPARAM L0008217     0.000000009196      3.11      3.95      2.89
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   SRCPARAM L0008218     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008219     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008220     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008221     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008222     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008223     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008224     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008225     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008226     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008227     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008228     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008229     0.000000009196      3.11      3.95      2.89
   SRCPARAM L0008230     0.000000009196      3.11      3.95      2.89
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** LINE VOLUME Source ID = SLINE3
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   SRCPARAM L0008232     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008233     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008234     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008235     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008236     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008237     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008238     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008239     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008240     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008241     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008242     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008243     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008244     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008245     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008246     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008247     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008248     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008249     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008250     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008251     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008252     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008253     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008254     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008255     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008256     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008257     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008258     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008259     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008260     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008261     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008262     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008263     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008264     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008265     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008266     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008267     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008268     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008269     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008270     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008271     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008272     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008273     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008274     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008275     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008276     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008277     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008278     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008279     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008280     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008281     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008282     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008283     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008284     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008285     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008286     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008287     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008288     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008289     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008290     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008291     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008292     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008293     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008294     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008295     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008296     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008297     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008298     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008299     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008300     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008301     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008302     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008303     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008304     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008305     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008306     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008307     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008308     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008309     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008310     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008311     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008312     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008313     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008314     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008315     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008316     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008317     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008318     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008319     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008320     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008321     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008322     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008323     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008324     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008325     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008326     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008327     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008328     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008329     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008330     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008331     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008332     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008337     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008339     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008340     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008341     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008342     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008350     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008351     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008357     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008358     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008360     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008361     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008362     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008363     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008364     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008365     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008366     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008367     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008370     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008371     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008372     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008373     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008374     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008375     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008376     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008377     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008378     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008379     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008380     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008381     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008382     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008383     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008384     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008385     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008386     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008387     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008388     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008389     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008391     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008392     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008393     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008394     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008395     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008396     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008397     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008398     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008399     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008400     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008401     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008402     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008403     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008404     0.000000007946      3.11      3.95      2.89
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SRCPARAM L0008406     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008407     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008408     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008409     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008410     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008411     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008412     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008413     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008414     0.000000007946      3.11      3.95      2.89
SRCPARAM L0008415     0.000000007946      3.11      3.95      2.89
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   SRCPARAM L0008416     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008417     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008418     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008419     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008420     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008421     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008422     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008423     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008424     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008425     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008426     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008427     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008428     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008429     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008430     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008431     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008432     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008433     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008434     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008435     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008436     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008437     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008438     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008439     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008440     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008441     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008442     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008443     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008444     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008445     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008446     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008447     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008448     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008449     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008450     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008451     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008452     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008453     0.000000007946      3.11      3.95      2.89
   SRCPARAM L0008454     0.000000007946      3.11      3.95      2.89
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** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0008679     0.00000000795      3.11      3.95      2.89
   SRCPARAM L0008680     0.00000000795      3.11      3.95      2.89
   SRCPARAM L0008681     0.00000000795      3.11      3.95      2.89
   SRCPARAM L0008682     0.00000000795      3.11      3.95      2.89
   SRCPARAM L0008683     0.00000000795      3.11      3.95      2.89
   SRCPARAM L0008684     0.00000000795      3.11      3.95      2.89
   SRCPARAM L0008685     0.00000000795      3.11      3.95      2.89
   SRCPARAM L0008686     0.00000000795      3.11      3.95      2.89
   SRCPARAM L0008687     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008688     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008689     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008690     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008691     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008692     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008693     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008694     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008695     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008696     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008697     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008698     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008699     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008700     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008701     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008702     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008703     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008704     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008705     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008706     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008707     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008714     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008715     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008717     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008718     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008727     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008728     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008729     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008730     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008731     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008732     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008733     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008734     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008735     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008737     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008815     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008821     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008823     0.00000000795      3.11      3.95      2.89
SRCPARAM L0008824     0.00000000795      3.11      3.95      2.89
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SRCPARAM L0008934     0.00000000795      3.11      3.95      2.89
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** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0009162     0.000000018       3.11      3.95      2.89
   SRCPARAM L0009163     0.000000018       3.11      3.95      2.89
   SRCPARAM L0009164     0.000000018       3.11      3.95      2.89
   SRCPARAM L0009165     0.000000018       3.11      3.95      2.89
   SRCPARAM L0009166     0.000000018       3.11      3.95      2.89
   SRCPARAM L0009167     0.000000018       3.11      3.95      2.89
** ------------------------------------------------------------------
   SRCPARAM STCK1        0.000130318     6.100   673.600  24.73000     0.610

** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0009117     0.00000001543      3.11      3.95      2.89
   SRCPARAM L0009118     0.00000001543      3.11      3.95      2.89
   SRCPARAM L0009119     0.00000001543      3.11      3.95      2.89
   SRCPARAM L0009120     0.00000001543      3.11      3.95      2.89
   SRCPARAM L0009121     0.00000001543      3.11      3.95      2.89
   SRCPARAM L0009122     0.00000001543      3.11      3.95      2.89
   SRCPARAM L0009123     0.00000001543      3.11      3.95      2.89
** ------------------------------------------------------------------
   SRCPARAM STCK2        0.000130318     6.100   673.600  24.73000     0.610

** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0009024     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009025     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009026     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009027     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009028     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009029     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009030     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009031     0.00000002216      3.11      3.95      2.89
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   SRCPARAM L0009032     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009033     0.00000002216      3.11      3.95      2.89
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   SRCPARAM L0009036     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009037     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009038     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009039     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009040     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009041     0.00000002216      3.11      3.95      2.89
   SRCPARAM L0009042     0.00000002216      3.11      3.95      2.89
** ------------------------------------------------------------------
   SRCPARAM STCK3        0.000130318     6.100   673.600  24.73000     0.610

** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0009105     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009106     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009107     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009108     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009109     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009110     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009111     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009112     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009113     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009114     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009115     0.00000001875      3.11      3.95      2.89
   SRCPARAM L0009116     0.00000001875      3.11      3.95      2.89
** ------------------------------------------------------------------
   SRCPARAM STCK4        0.000130318     6.100   673.600  24.73000     0.610

** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0009143     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009144     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009145     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009146     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009147     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009148     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009149     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009150     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009151     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009152     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009153     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009154     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009155     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009156     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009157     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009158     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009159     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009160     0.0000000015      3.11      3.95      2.89
   SRCPARAM L0009161     0.0000000015      3.11      3.95      2.89
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** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0009124     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009125     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009126     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009127     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009128     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009129     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009130     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009131     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009132     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009133     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009134     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009135     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009136     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009137     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009138     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009139     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009140     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009141     0.000000001526      3.11      3.95      2.89
   SRCPARAM L0009142     0.000000001526      3.11      3.95      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0009043     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009044     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009045     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009046     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009047     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009048     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009049     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009050     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009051     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009052     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009053     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009054     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009055     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009056     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009057     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009058     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009059     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009060     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009061     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009062     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009063     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009064     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009065     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009066     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009067     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009068     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009069     0.000000003129      3.11      3.95      2.89
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   SRCPARAM L0009070     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009071     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009072     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009073     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009074     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009075     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009076     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009077     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009078     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009079     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009080     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009081     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009082     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009083     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009084     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009085     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009086     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009087     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009088     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009089     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009090     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009091     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009092     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009093     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009094     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009095     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009096     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009097     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009098     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009099     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009100     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009101     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009102     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009103     0.000000003129      3.11      3.95      2.89
   SRCPARAM L0009104     0.000000003129      3.11      3.95      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0008957     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008958     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008959     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008960     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008961     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008962     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008963     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008964     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008965     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008966     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008967     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008968     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0008969     0.000000005806      3.11      3.95      2.89
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SRCPARAM L0008970     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008971     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008972     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008973     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008974     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008975     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008976     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008977     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008978     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008979     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008980     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008981     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008982     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008983     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008984     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008985     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008986     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008987     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008988     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008989     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008990     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008991     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008992     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008993     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008994     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008995     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008996     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008997     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008998     0.000000005806      3.11      3.95      2.89
SRCPARAM L0008999     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009000     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009001     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009002     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009003     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009004     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009005     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009006     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009007     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009008     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009009     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009010     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009011     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009012     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009013     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009014     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009015     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009016     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009017     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009018     0.000000005806      3.11      3.95      2.89
SRCPARAM L0009019     0.000000005806      3.11      3.95      2.89
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   SRCPARAM L0009020     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0009021     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0009022     0.000000005806      3.11      3.95      2.89
   SRCPARAM L0009023     0.000000005806      3.11      3.95      2.89
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Qume_Ops_2.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\..\724945.SFC
   PROFFILE ..\..\724945.PFL
   SURFDATA 23293 2009
   UAIRDATA 23230 2009 OAKLAND/WSO_AP
   PROFBASE 15.5 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST QUME_OPS_2.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST QUME_OPS_2.AD\24H1GALL.PLT 32
   PLOTFILE PERIOD ALL QUME_OPS_2.AD\PE00GALL.PLT 33
   SUMMFILE Qume_Ops_2.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
```

```
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
**
```

*HARP - HRACalc v19044 11/29/2021 5:51:28 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Qume_ConstHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
1			9901	DieselExhPM	0.0469	1.50E-05	3YrCancerHighEnd_Inh_FAH3to70	*	1.50E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	3YrCancerHighEnd_Inh_FAH3to70	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 11/29/2021 5:51:28 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Qume_ConstHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DE\	RESP
1			9901	DieselExhPM	0.28696	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.28696	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-01

SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	1.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 11/29/2021 5:51:28 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Qume_ConstHRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR
1			9901	DieselExhPM	0.0469	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE
0.00E+00	*	4.69E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/23/2022 9:55:12 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Operations\Qume_Ops_2022_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK
	1		9901	DieselExhPM	0.0007	4.77E-07	30YrCancerHighEnd_Inh_FAH3to70	*	4.77E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2		107028	Acrolein	0	0.00E+00	30YrCancerHighEnd_Inh_FAH3to70	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/23/2022 9:55:12 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Operations\Qume_Ops_2022_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL
1			9901	DieselExhPM	0.00784	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.00784	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.14E-03	0.00E+00	3.14E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/23/2022 9:55:12 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Operations\Qume_Ops_2022_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR
	1		9901	DieselExhPM	0.0007	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2		107028	Acrolein	0	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE
0.00E+00	*	7.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/24/2022 6:40:43 AM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Tier 3\Qume_Tier3_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK	DAIRY_RISK
1			9901	DieselExhPM	0.01312	4.18E-06	3YrCancerHighEnd_Inh_FAH3to70	*	4.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	3YrCancerHighEnd_Inh_FAH3to70	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/24/2022 6:40:43 AM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Tier 3\Qume_Tier3_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP
1			9901	DieselExhPM	0.07364	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.07364	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.95E-02

SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	2.95E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/24/2022 6:40:43 AM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Tier 3\Qume_Tier3_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR
1			9901	DieselExhPM	0.01312	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	NonCancerChronicHighEnd_Inh	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE
0.00E+00	*	1.31E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/25/2022 8:51:19 AM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Tier 4 2.25 rerun\Qume_Tier4_2.25.22_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK
1			9901	DieselExhPM	0.00574	1.83E-06	3YrCancerHighEnd_InhSoilDerm_FAH3to70	*	1.83E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	3YrCancerHighEnd_InhSoilDerm_FAH3to70	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

DAIRY_RISK	PIG_RISK	CHICKEN_RISK	EGG_RISK	1ST_DRIVER	2ND_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	0.00E+00	0.00E+00	NA	NA	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/25/2022 8:51:19 AM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Tier 4 2.25 rerun\Qume_Tier4_2.25.22_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV
1			9901	DieselExhPM	0.0323	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.0323	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	1.29E-02	0.00E+00	1.29E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 2/25/2022 8:51:19 AM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\Qume\Construction\Tier 4 2.25 rerun\Qume_Tier4_2.25.22_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR
	1		9901	DieselExhPM	0.00574	NonCancerChronicHighEnd_InhSoilDerm	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2		107028	Acrolein	0	NonCancerChronicHighEnd_InhSoilDerm	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

GENERAL	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE
0.00E+00	*	5.74E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
0.00E+00	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

CHICKEN_DOSE	EGG_DOSE	1ST_DRIVER	2ND_DRIVER	3RD_DRIVER	PASTURE_CONC	FISH_CONC	WATER_CONC
0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00
0.00E+00	0.00E+00	INHALATION	NA	NA	0.00E+00	0.00E+00	0.00E+00