Appendix 4.2

Air Quality

The Homestead

AIR QUALITY IMPACT ANALYSIS

CITY OF EASTVALE

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg/m^3	Microgram per Cubic Meter
AADT	Annual Average Daily Trips
AQ	Air Quality
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
BBAQMD	Bay Area Air Quality Management District
BC	Black Carbon
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CITY	City of Eastvale
CO	Carbon Monoxide
CY	Cubic Yards
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EIR	Environmental Impact Reports
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
GHG	Greenhouse Gas
GVWR	Goss Vehicle Weight Rating
HDT	Heavy Duty Trucks
HHD	Heavy-Heavy Duty
I-15	Interstate-15
LBS/DAY	Pounds Per Day
LDA	Light Duty Automobiles

LHD	Light Heavy Duty
LST	Localized Significance Threshold
MATES	Multiple Air Toxics Exposure Study
LST METHODOLOGY	Final Localized Significance Threshold Methodology
MHD	Medium Heavy Duty
MM	Mitigation Measures
NAAQS	National Ambient Air Quality Standards
NCHRP	National Cooperative Highway Research Program
NO_2	Nitrogen Dioxide
NO_X	Nitrogen Oxides
NOP	Notice of Preparation
O_3	Ozone
OBD-II	On-Board Diagnostic
Pb	Lead
PM_{10}	Particulate Matter 10 microns in diameter or less
$PM_{2.5}$	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
PPM	Parts Per Million
Project	The Homestead
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
RivTAM	Riverside County Transportation Analysis Model
ROG	Reactive Organic Gases
RTP/SCS	Regional Transportation Plan/ Sustainable Communities Strategy
SB	Senate Bill
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SF	Square Feet
SIPs	State Implementation Plans
SO_2	Sulfur Dioxide
SP	Specific Plan
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis
TOG	Total Organic Gases

TSF	Thousand Square Feet
UFP	Ultra Fine Particles
URBEMIS	Urban Emissions
UTRs	Utility Tractors
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
VPH	Vehicles Per Hour

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *The Homestead Air Quality Impact Analysis* are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the California Environmental Quality Act (CEQA) Guidelines (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	3.4	*Less Than Significant*	*n/a*
Localized Construction Emissions	3.6	*Less Than Significant*	*n/a*
Regional Operational Emissions	3.5	*Potentially Significant*	*Significant and Unavoidable*
Localized Operational Emissions	3.7	*Less Than Significant*	*n/a*
CO "Hot Spot" Analysis	3.8	*Less Than Significant*	*n/a*
Air Quality Management Plan	3.9	*Potentially Significant*	*Significant and Unavoidable*
Sensitive Receptors	3.10	*Less Than Significant*	*n/a*
Odors	3.11	*Less Than Significant*	*n/a*
Cumulative Impacts	3.12	*Potentially Significant*	*Significant and Unavoidable*

ES.2 STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES

Measures listed below (or equivalent language) shall appear on all Project grading plans, construction specifications and bid documents, and the City shall ensure such language is incorporated prior to issuance of any development permits. South Coast Air Quality Management District (SCAQMD) Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). It should be noted that these Best Available Control Measures (BACMs) are not mitigation as

they are standard regulatory requirements. As such, credit for Rule 403 and Rule 1113 have been taken

BACM AQ-1

The contractor shall adhere to applicable measures contained in Table 1 of Rule 403 including, but not limited to (2):

- All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.
- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered at least three (3) times daily during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.
- The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are limited to 15 miles per hour or less.

BACM AQ-2

The following measures shall be incorporated into Project plans and specifications as implementation of SCAQMD Rule 1113 (3):

- Only "Low-Volatile Organic Compounds (VOC)" paints (no more than 50 gram/liter of VOC) consistent with SCAQMD Rule 1113 shall be used.

ES.3 PROJECT DESIGN FEATURES

The Project incorporates and expresses the following design features and attributes promoting energy efficiency and sustainability. Because these features/attributes are integral to the Project, and/or are regulatory requirements, they are not considered to be mitigation measures.

- The Project buildings would be designed to support the installation of photo-voltaic solar panels (PV system) on the rooftops of the warehouse buildings if they are desired in the future. The installation of a PV system will be determined by each individual building tenant/operator.
- All on-site *outdoor* cargo handling equipment (CHE) (including yard trucks, hostlers, yard goats, pallet jacks, forklifts, and other on-site equipment) will be powered by compressed natural gas.
- All on-site *indoor* forklifts will be powered by electricity.
- To reduce water demands and associated energy use, subsequent development proposals within the Project site would be required to implement a Water Conservation Strategy and demonstrate a minimum 20% reduction in indoor water usage when compared to baseline water demand (total expected water demand without implementation of the Water Conservation Strategy)[1]. The Project would also be required to implement the following:

1 Reduction of 20% indoor water usage is consistent with the current CALGreen Code performance standards for residential and non-residential land uses. Per CALGreen, the reduction shall be based on the maximum allowable water use per plumbing fixture and fittings as required by the California Building Standards Code.

- Landscaping palette emphasizing drought tolerant plants consistent with provisions of the City of Eastvale requirements;
- Use of water-efficient irrigation techniques consistent with provisions of the City of Eastvale requirements;
- U.S. Environmental Protection Agency (EPA) Certified WaterSense labeled or equivalent faucets, high-efficiency toilets (HETs), and water-conserving shower heads.

- The Project would meet incumbent (at the time of building permits) standards established under the Building Energy Efficiency Standards contained in the California Code of Regulations (CCR), Title 24, Part 6 (Title 24, Title 24 Energy Efficiency Standards).

ES.4 CONSTRUCTION-SOURCE MITIGATION MEASURES

The Project would not result in an exceedance of any regional or localized construction-source emissions thresholds. As such, the Project would not result in any significant impacts and no mitigation measures are required.

ES.5 OPERATIONAL-SOURCE MITIGATION MEASURES

The Project would exceed regional thresholds of significance established by the SCAQMD for emissions of nitrogen oxides (NO_X). It is important to note that 47 percent of the Project's NO_X emissions are derived from heavy duty truck trips. The following mitigation measures (MM AQ-1 through MM AQ-5) are designed to reduce the operational NO_X emissions but will not be sufficient enough to reduce the NO_X emissions to less than the significant impacts.

MM AQ-1

The truck access gates and loading docks within the truck court on the Project site shall be posted with signs which state:

- Truck drivers shall turn off engines when not in use;
- Diesel delivery trucks servicing the Project shall not idle for more than five (5) minutes; and
- Telephone numbers of the building facilities manager and the CARB to report violations.

MM AQ-2

The City will require operators of the proposed facilities to encourage the trucks to incorporate energy efficiency improvement features through the Carl Moyer Program—including truck modernization, retrofits, and/or aerodynamic kits and low rolling resistance tires—to reduce fuel consumption.

MM AQ-3

Incorporate Electric Vehicle Charging Stations and Carpool Parking. The project will be designed to incorporate electric vehicle charging stations and a minimum of five carpool parking spaces at each building for employees and the public to use.

MM AQ-4

Provide Electric Interior Vehicles. All buildings will be designed to provide infrastructure to support use of electric-powered forklifts and/or other interior vehicles.

MM AQ-5

The project shall be designed to incorporate electric vehicle charging stations and carpool parking spaces for employees.

ES.6 EVALUATION OF APPLICABILITY OF SCAQMD-RECOMMENDED MITIGATION MEASURES

The SCAQMD typically provides a comment letter on the Notice of Preparation (NOP) of a CEQA document for the Project. The SCAQMD's comment letter typically includes a reference to several sources to consider for purposes of mitigating significant air quality impacts. The following table evaluates the applicability of the SCAQMD's recommended measures.

TABLE ES-1: APPLICABILITY OF SCAQMD-RECOMMENDED MITIGATION MEASURES

Mitigation Measure	Applicability
Chapter 11 of the SCAQMD *CEQA Air Quality Handbook* (Construction)	The applicable mitigation measures listed in Chapter 11 (Tables 11-2, 11-3, and 11-4) of the SCAQMD *CEQA Air Quality Handbook* have been reviewed. However, no additional mitigation measures are necessary since Project-related construction emissions (regional and localized) would not exceed the applicable SCAQMD thresholds with application of BACMs.
Chapter 11 of the SCAQMD *CEQA Air Quality Handbook* (Operations)	The applicable mitigation measures listed in Chapter 11 (Tables 11-6c and 11-7c) of the SCAQMD *CEQA Air Quality Handbook* have been reviewed. Mitigation measures recommended for the Project are generally consistent with measures recommended by SCAQMD. However, none of the additional mitigation measures beyond those identified above would reduce the significant NO_X impact to less than significant levels. It should be noted the SCAQMD *CEQA Air Quality Handbook*. Additionally, several of the measures listed provide a negligible NO_X reduction with a number designated by SCAQMD has having no quantified benefit or negligible benefit. Therefore, implementation of these measures would not avoid or substantially lessen mobile source NO_X emissions attributable to the Project.

SCAQMD CEQA Web Pages (Fugitive Dust)	With application of BACMs, the Project would not have a significant impact for construction related particulate matter less than 10 Microns (PM_{10}) or particulate matter less than 2.5 Microns ($PM_{2.5}$) emissions. Therefore, no additional mitigation measures are required to reduce fugitive dust emissions.
SCAQMD CEQA Web Pages (Harbor Craft, Locomotives, Ocean Going Vessels)	The following mitigation measures are not applicable to the proposed Project. It is not expected that the Project would include the use of a harbor craft, locomotives, or ocean-going vessels.
SCAQMD CEQA Web Pages (Off-Road Engines)	Mitigation measures that would apply to off-road engines have been reviewed. Notwithstanding, implementation of these measures would not avoid or substantially lessen mobile source NO_X emissions attributable to the project.
SCAQMD CEQA Web Pages (On-Road Engines)	The California Air Resources Board (CARB) has worked closely with the U.S. Environmental Protection Agency (EPA), engine and vehicle manufacturers, and other interested parties to reduce emissions from heavy-duty diesel vehicles in California, through a combination of measures including regulations requiring the use of ultra-low sulfur diesel fuel, new emission standards, restrictions on idling, addition of post-combustion filter and catalyst equipment, and retrofits for diesel truck fleets. These programs are expected to result in significant reductions in NO_X, VOC, PM_{10}, $PM_{2.5}$, and carbon monoxide (CO) emissions as they are fully implemented. Under the Truck and Bus Regulation, adopted by CARB in 2008, all diesel truck fleets operating in California are required to adhere to an aggressive schedule for upgrading and replacing heavy-duty truck engines. Pursuant to such regulation, older, heavier trucks, i.e., those with pre-2000-year engines and a gross vehicle weight rating (GVWR) greater than 26,000 pounds are already required to have installed a PM filter and must be replaced with a 2010 engine between 2015 and 2020, depending on the model year. By 2015, all heavier pre-1994 trucks must be upgraded to 2010 engines and newer trucks are thereafter required to be replaced over the next eight years. Older, more polluting trucks are required to be replaced first, while trucks that already have relatively clean 2007-2009 engines are not required to be replaced until 2023. Lighter trucks (those with a GVWR of 14,001 to 26,000 pounds) must adhere to a similar schedule and will all be replaced by 2020.

	Further, nearly all trucks that are not required under the Truck and Bus Regulation to be replaced by 2015 are required to be upgraded with a PM filter by that date. Therefore, most heavy-duty trucks entering the project site will meet or exceed EPA 2007 and 2010 emission standards within a relatively short period of time after the project becomes operational in 2020, and all such trucks entering the property will meet or exceed such standards by 2023. Federal and state agencies regulate and enforce vehicle emission standards. It is not feasible for the City of Eastvale staff to effectively enforce a prohibition on trucks from entering the property that are otherwise permitted to operate in California and access other properties in the city, region, and state. And, even if the City were to apply such a restriction, it would merely cause warehouse operators using truck fleets older than 2007/2010 to locate in another location in the South Coast Air Basin (SCAB) where the restriction does not apply, thereby resulting in no improvement to regional air quality. Further if a truck that did not meet this requirement were to attempt access to the site and be denied, there would be more idling emissions and travel emissions associated with that truck.
California Air Pollution Control Officers Association's (CAPCOA) *Quantifying Greenhouse Gas Mitigation Measures*	All feasible and applicable mitigation measures listed in the Energy, Water, and Transportation sections (as shown in Chart 6-1 and Chart 6-2 of the CAPCOA document) have been applied to the analysis. However, these measures are aimed at reducing GHG emissions and implementation of these measures would not avoid or substantially lessen mobile source NO_X emissions attributable to the project.
SCAQMD Rule 403	As identified in BACM AQ-1 the Project would need to comply with applicable SCAQMD Rules including, but not limited to Rule 403.
SCAQMD's Guidance Document for addressing Air Quality Issues in General Plans and Local Planning	These measures are not applicable to the proposed Project because the measures listed are aimed towards local governments as a guidance to reduce community exposure to source-specific air pollution impacts at the General Plan level.
Require the use of 2010 or newer haul trucks (e.g., material delivery trucks and soil import/export). In the event that the 2010 model year or newer diesel haul trucks cannot be obtained, provide documentation as information becomes available and use trucks that meet EPA measures such as incentives, phase-in schedules for clean trucks, etc.	This mitigation measure is not applicable to the proposed Project since Project-related construction emissions (regional and localized) would not exceed the applicable SCAQMD thresholds with application of BACMs.

Have truck routes clearly marked with trailblazer signs, so that trucks will not enter residential areas.	This mitigation measure is not applicable. Trucks will access the site from I-15. The Project does not have authority in the marking of truck routes.
Limit the daily number of trucks allowed at the Proposed Project to levels analyzed in the CEQA document. If higher daily truck volumes are anticipated to visit the site, the Lead Agency should commit to re-evaluating the Proposed Project through CEQA prior to allowing this land use or higher activity level.	This mitigation measure is not applicable as the proposed Project is not anticipating higher daily truck volumes to visiting the Project site.
Provide electric vehicle (EV) Charging Stations (see the discussion below regarding EV charging stations).	Applicable, the Project will provide the number of passenger car EV Charging Stations required by CALGreen.
Should the proposed Project generate significant regional emissions, the Lead Agency should require mitigation that requires accelerated phase in for non-diesel-powered trucks. For example, trucks can provide substantial reduction in health risks, and may be more financially feasible today due to reduce fuel costs compared to diesel. In the Final CEQA document, the Lead Agency should require a phase-in schedule for these cleaner operating trucks to reduce any significant adverse air quality impacts. SCAQMD staff is available to discuss the availability of current and upcoming truck technologies and incentive programs with the Lead Agency.	This mitigation measure is not applicable to the proposed Project since Project-related construction emissions (regional and localized) would not exceed the applicable SCAQMD thresholds with application of BACMs.
Trucks that can operate at least partially on electricity have the ability to substantially reduce the significant NO_X impacts from this project. Further, trucks that run at least partially on electricity are projected to become available during the life of the project as discussed in the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016-2040 RTP/SCS). It is important to make this electrical infrastructure available when the project is built so that it is ready when this technology becomes commercially available. The cost of installing electrical charging equipment onsite is significantly cheaper if completed when the project is built compared to retrofitting an existing building. Therefore, SCAQMD staff recommends the Lead Agency require the Proposed Project and other plan areas that allow truck parking to be constructed with the appropriate infrastructure to facilitate sufficient electric charging for trucks to plug-in. Similar to the City of Los Angeles requirements for all new projects, SCAQMD staff recommends that the Lead	This mitigation measure is not applicable to the proposed Project since Project-related construction emissions (regional and localized) would not exceed the applicable SCAQMD thresholds with application of BACMs.

Agency require at least 5% of all vehicle parking spaces (including for trucks) include EV charging stations. Further, electrical hookups should be provided at the onsite truck stop for truckers to plug in any onboard auxiliary equipment. At a minimum, electrical panels should appropriately be sized to allow for the future expanded use.	
Design the industrial building such that entrances and exits are such that trucks are not traversing past neighbor or other sensitive receptors.	The Project has been designed as such to ensure trucks would not idle off-site.
Design the industrial building such that any check-in point for trucks is well inside the proposed Project site to ensure that there are no trucks queuing outside the facility.	The Project has been designed as such to ensure trucks would not idle off-site.
Design the industrial building to ensure that truck traffic with the proposed Project site is located away from the property line(s) closest to its residential or sensitive receptor neighbors.	This mitigation measure is not applicable to the proposed Project as the Project site is not located adjacent to any residential land uses.
Restrict overnight parking in residential areas.	This mitigation measure is not applicable to the proposed Project as the Project site is not located adjacent to any residential land uses.
Establish overnight parking within the industrial building where trucks can rest overnight.	The Project would be required to comply with operating hours established by the City.
Establish area(s) within the Proposed Project site for repair needs.	It is unknown if any repairs would be done on-site at this time.
Develop, adopt and enforce truck routes both in and out of the city, and in and out of facilities.	This mitigation measure is not applicable to the proposed Project. The Project does not have regulatory authority to control truck routes.
Create a buffer zone of at least 300 meters (roughly 1,000 feet), which can be office space, employee parking, greenbelt, etc. between the proposed Project and sensitive receptors.	This mitigation measure is not applicable to the proposed Project as the Project site is not located adjacent to any residential land uses.
Maximize use of solar energy including solar panels; installing the maximum possible number of solar energy arrays on the building roofs and/or on the Project site to generate solar energy for the facility.	Although the proposed Project will not be providing solar panels, the Project will provide the infrastructure for these stations.
Maximize the planting of trees in landscaping and parking lots.	The Project will implement the planting of trees and landscaping consistent with City requirements.

Use light colored paving and roofing materials.	The Project will utilize light colored roofing consistent with the architectural design guidelines established by the City.
Utilize only Energy Star heating, cooling, and lighting devices, and appliances.	The Project will comply with this measure as it is required by SCAQMD.
Require use of electric or alternatively fueled sweepers with high-efficiency particulate air (HEPA) filters.	The Project will comply with the use of electric or alternatively fueled sweepers with HEPA filters as this measure is required by SCAQMD.
Use of water-based or low VOC cleaning products.	The Project will comply with this measure as it is required by SCAQMD.

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1 INTRODUCTION

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for the proposed The Homestead (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the proposed Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1 SITE LOCATION

The proposed The Homestead is located west of Archibald Avenue and on either side of Limonite Avenue, in the City of Eastvale, as shown on Exhibit 1-A. Chino Airport is located approximately one mile west of the Project site. Existing land uses in the Project study area include residential uses north, east, and southeast of the Project site, and existing agricultural use to the west and south (designated as future commercial use) of the Project site.

1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary site plan. As indicated on Exhibit 1-B, the Project is proposed to consist of the following uses:

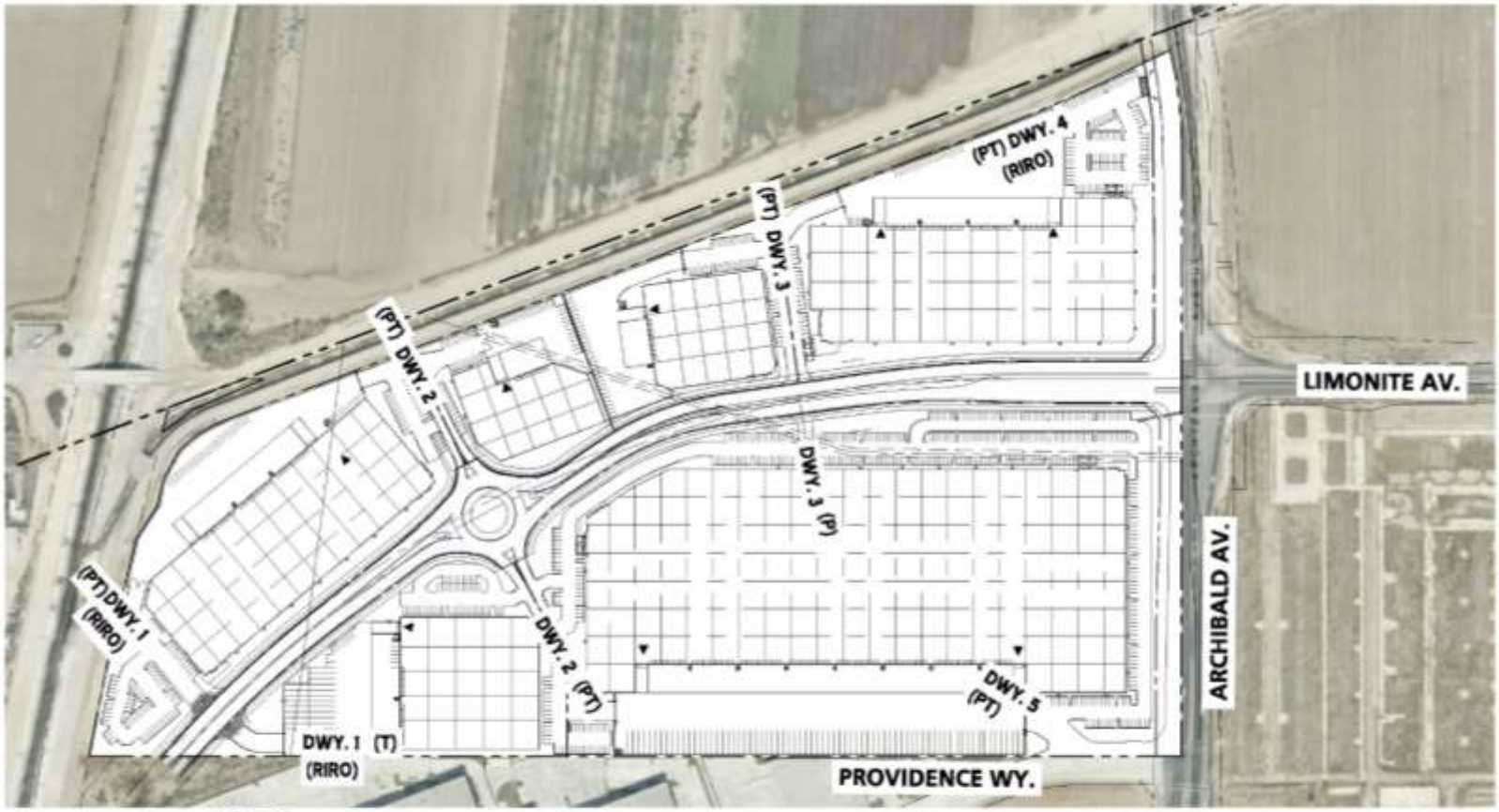
- 560,291 square feet (sf) of warehousing use
- 520,317 sf of high-cube fulfillment center use

Since the time this AQIA was prepared, the site plan has been updated. The current site plan shows 541,756 square feet of warehousing use and 507,631 square feet of high-cube fulfillment center warehouse use. These updated site plan building square footages are less intensive, and as such the number of trips and consequently emissions would decrease. However, for the purposes of this AQIA, the higher square footage (and therefore higher trip generation and consequently emissions) has been evaluated in an effort to conduct a conservative analysis and overstate as opposed to understate potential AQ impacts.

The Project is anticipated to be constructed in a single phase by the year 2021. At the time this air quality analysis was prepared, the future tenants of the proposed Project were unknown. This air study is intended to describe emission impacts associated with the expected typical 24-hour, seven days per week operational activities at the Project site.

EXHIBIT 1-A: LOCATION MAP

EXHIBIT 1-B: SITE PLAN



LEGEND:

RIRO	= RIGHT-IN/RIGHT-OUT ONLY ACCESS
P	= PASSENGER CARS ONLY
T	= TRUCKS ONLY
PT	= PASSENGER CARS AND TRUCKS

N

NOTE: UNLESS NOTED, ALL DRIVEWAYS ARE ASSUMED TO BE FULL ACCESS.

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2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

2.1 SOUTH COAST AIR BASIN

The Project site is located in the SCAB within the jurisdiction of SCAQMD (4). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bounded by the San Gabriel Mountains to the south and west, the Los Angeles / Kern County border to the north, and the Los Angeles / San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bounded by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s (degrees Fahrenheit). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide to sulfates is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent along the coast and 59 percent inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90 percent of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in

downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter, when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NO_X and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3 WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and

low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

2.4 CRITERIA POLLUTANTS

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (5):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
CO	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone, motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with oxygen transport and competing with oxygen to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for oxygen supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (oxygen deficiency) as seen at high altitudes.

Criteria Pollutant	Description	Sources	Health Effects
Sulfur Dioxide (SO_2)	SO_2 is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO_2 oxidizes in the atmosphere, it forms sulfates (SO_4). Collectively, these pollutants are referred to as sulfur oxides (SO_X)	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO_2 can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO_2. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO_2. Animal studies suggest that despite SO_2 being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO_2 levels. In these studies, efforts to separate the effects of SO_2 from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.

Criteria Pollutant	Description	Sources	Health Effects
NO_X	NO_X consist of nitric oxide (NO), nitrogen dioxide (NO_2) and nitrous oxide (N_2O) and are formed when nitrogen (N_2) combines with oxygen (O_2). Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. Nitrogen oxides are typically created during combustion processes and are major contributors to smog formation and acid deposition. NO_2 is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of nitrogen oxide compounds, NO_2 is the most abundant in the atmosphere. As ambient concentrations of NO_2 are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO_2 than those indicated by regional monitoring station.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO_2 at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO_2 in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups. In animals, exposure to levels of NO_2 considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of ozone exposure increases when animals are exposed to a combination of ozone and NO_2.
Ozone (O_3)	O_3 is a highly reactive and unstable gas that is formed when VOCs and NO_X, both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. Ozone concentrations are generally	Formed when reactive organic gases (ROG) and nitrogen oxides react in the presence of sunlight. ROG sources	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible sub-groups for ozone effects.

Criteria Pollutant	Description	Sources	Health Effects
	highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.	Short-term exposure (lasting for a few hours) to ozone at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated ozone levels are associated with increased school absences. In recent years, a correlation between elevated ambient ozone levels and increases in daily hospital admission rates, as well as mortality, has also been reported. An increased risk for asthma has been found in children who participate in multiple outdoor sports and live in communities with high ozone levels. Ozone exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes ozone may be more toxic than exposure to ozone alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.
Particulate Matter	PM_{10} (Particulate Matter less than 10 microns): A major air pollutant consisting of tiny solid or liquid particles of soot, dust,	Sources of PM_{10} include road dust, windblown dust and construction. Also	A consistent correlation between elevated ambient fine particulate matter (PM_{10} and $PM_{2.5}$) levels and an

Criteria Pollutant	Description	Sources	Health Effects
	smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM_{10} is considered a criteria air pollutant. $PM_{2.5}$ (Particulate Matter less than 2.5 microns): A similar air pollutant to PM_{10} consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include sulfates formed from SO_2 release from power plants and industrial facilities and nitrates that are formed from NO_X release from power plants, automobiles and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. $PM_{2.5}$ is a criteria air pollutant.	formed from other pollutants (acid rain, NO_X, SO_X, organics). Incomplete combustion of any fuel. $PM_{2.5}$ comes from fuel combustion in motor vehicles, equipment and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO_X, SO_X, organics).	increase in mortality rates, respiratory infections, number and severity of asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in $PM_{2.5}$ concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter. The elderly, people with pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM_{10} and $PM_{2.5}$.
Volatile Organic Compounds (VOC)	VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic	Organic chemicals are widely used as ingredients in household products. Paints, varnishes and wax all contain organic solvents, as do many cleaning, disinfecting,	Breathing VOCs can irritate the eyes, nose and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health

Criteria Pollutant	Description	Sources	Health Effects
	compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form ozone to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	cosmetic, degreasing and hobby products. Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.	effects, though many have several.
ROG	Similar to VOC, ROGs are also precursors in forming ozone and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and nitrogen oxides react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O_3, which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Lead is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of lead in the air was emissions from vehicles burning leaded gasoline. The major sources of lead emissions are ore and metals processing, particularly lead smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include	Metal smelters, resource recovery, leaded gasoline, deterioration of lead paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are

Criteria Pollutant	Description	Sources	Health Effects
	waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or lead acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of lead emissions.		associated with increased blood pressure. Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the respiratory system. Pb can be stored in the bone from early age environmental exposure, and elevated blood Pb levels can occur due to breakdown of bone tissue during pregnancy, hyperthyroidism (increased secretion of hormones from the thyroid gland) and osteoporosis (breakdown of bony tissue). Fetuses and breast-fed babies can be exposed to higher levels of Pb because of previous environmental Pb exposure of their mothers.
Odor	Odor means the perception experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves.	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and throat, which can reduce respiratory volume. Second, studies have shown that the VOCs that cause odors can stimulate sensory nerves to cause neurochemical changes that might influence health, for instance, by compromising the immune system. Finally, unpleasant odors can trigger memories or attitudes linked to unpleasant odors, causing cognitive and emotional effects such as stress.

2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (6).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May ,4 2016 and are presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O_3, CO (except 8-hour Lake Tahoe), SO_2 (1 and 24 hour), NO_2, PM_{10}, and $PM_{2.5}$ are not to be exceeded. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the Air District meets the standards set by the EPA or the California EPA. Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, a State Implementation Plan (SIP) is drafted. The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (7).

TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page ...

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TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: O_3, PM_{10}, $PM_{2.5}$, CO, NO_2, SO_2 and Pb which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (8). On February 20, 2019, CARB posted the 2018 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (9). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O_3 – 1-hour standard	Nonattainment	--
O_3 – 8-hour standard	Nonattainment	Nonattainment
PM_{10}	Nonattainment	Attainment
$PM_{2.5}$	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO_2	Attainment	Unclassifiable/Attainment
SO_2	Unclassifiable/Attainment	Unclassifiable/Attainment
Pb[2]	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
"-" = The national 1-hour O_3 standard was revoked effective June 15, 2005

2.7 LOCAL AIR QUALITY

The Project site is located within the Source Receptor Area (SRA) 22 (10). Within SRA 22, the SCAQMD Corona/Norco Area monitoring station is located 3.77 miles south of the Project site and is the nearest long-term air quality monitoring site for PM_{10}. Relative to the Project site, the nearest long-term air quality monitoring site for CO is the SCAQMD I-10 Near Road monitoring station (SRA 33), located 7.35 miles northeast of the Project site. The SCAQMD CA-60 Near Road monitoring station is the nearest monitoring station located approximately 3.97 miles north of the Project site that monitors NO_2 and $PM_{2.5}$ (SRA 33). SCAQMD Metropolitan Riverside County monitoring station (SRA 23) is located approximately 10.18 miles east of the Project site and is the nearest long-term air quality monitoring site for O_3. It should be noted that the I-10 Near Road Station, CA-60 Near Road station, and Metropolitan Riverside County monitoring station were utilized in lieu of the Corona/Norco Area monitoring station only in instances where data was not available.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to

[2] The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

be representative of the local air quality at the Project site. Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ for 2016 through 2018 was obtained from the SCAQMD Air Quality Data Tables (11). Additionally, data for SO_2 has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO_2 concentrations.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2016-2018

POLLUTANT	STANDARD	YEAR		
		2016	2017	2018
O_3				
Maximum Federal 1-Hour Concentration (ppm)		0.142	0.145	0.123
Maximum Federal 8-Hour Concentration (ppm)		0.104	0.118	0.101
Number of Days Exceeding Federal 1-Hour Standard	>0.07 ppm	1	2	0
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	33	47	22
Number of Days Exceeding Federal 8-Hour Standard	> 0.070 ppm	69	81	53
Number of Days Exceeding State 8-Hour Standard	> 0.070 ppm	71	81	53
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	1.700	4.200	1.600
Maximum Federal 8-Hour Concentration	> 20 ppm	1.300	1.300	1.300
NO_2				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.009	0.009	0.008
Annual Federal Standard Design Value		0.003	0.003	0.003
PM_{10}				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 150 $\mu g/m^3$	62.000	85.000	100.000
Annual Federal Arithmetic Mean ($\mu g/m^3$)		31.700	31.200	30.200
Number of Days Exceeding Federal 24-Hour Standard	> 150 $\mu g/m^3$	0	0	0
Number of Days Exceeding State 24-Hour Standard	> 50 $\mu g/m^3$	7	7	3
$PM_{2.5}$				
Maximum Federal 24-Hour Concentration ($\mu g/m^3$)	> 35 $\mu g/m^3$	44.140	44.800	47.900
Annual Federal Arithmetic Mean ($\mu g/m^3$)	> 12 $\mu g/m^3$	14.730	14.430	14.310
Number of Days Exceeding Federal 24-Hour Standard	> 35 $\mu g/m^3$	6	7	5

Source: Data for O_3, CO, NO_2, PM_{10}, and $PM_{2.5}$ was obtained from SCAQMD Air Quality Data Tables.

2.8 REGULATORY BACKGROUND

2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3, CO, NO_x, SO_2, PM_{10}, and Pb (12). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other

than California. Automobiles sold in California must meet the stricter emission requirements of the CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (13). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (14) (15). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3, NO_2, SO_2, PM_{10}, CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X. NO_X is a collective term that includes all forms of nitrogen oxides (NO, NO_2, NO_3) which are emitted as byproducts of the combustion process.

2.7.2 CALIFORNIA REGULATIONS

California Air Resource Board. The CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. The CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for sulfates, visibility, hydrogen sulfide, and vinyl chloride. However, at this time, hydrogen sulfide and vinyl chloride are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (16) (12).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare air quality management plans that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a five percent or more annual reduction in emissions or 15 percent or more in a period of three years for ROGs, NO_X, CO and PM_{10}. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than five percent per year under certain circumstances.

Title 24 Energy Efficiency Standards and California Green Building Standards. California Code of Regulations Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and will become effective on January 1, 2020. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards.

The CEC indicates that the 2019 Title 24 standards may require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, update indoor and outdoor lighting for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019 standards will use approximately 7 percent less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings will use approximately 30 percent less energy due to lighting upgrades (17).

California Code of Regulations, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2011, and is administered by the California Building Standards Commission. CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2019 California Green Building Code Standards that will be effective January 1, 2020. Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction and demolition ordinances and defers to them as the ruling guidance provided, they establish a minimum 65 percent diversion requirement. The code also provides exemptions for areas not served by construction and demolition recycling infrastructure. The State Building Code provides the minimum standard that

buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official. 2019 CALGreen standards are applicable to the Project and require (18):

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5 percent of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phase project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)
    - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
    - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
    - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gal/day (5.303.1.1 and 5.303.1.2).
- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall b included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).

2.8.3 AIR QUALITY MANAGEMENT PLANNING

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMPs) to meet the state and federal ambient air quality standards (19). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.9.

2.9 REGIONAL AIR QUALITY IMPROVEMENT

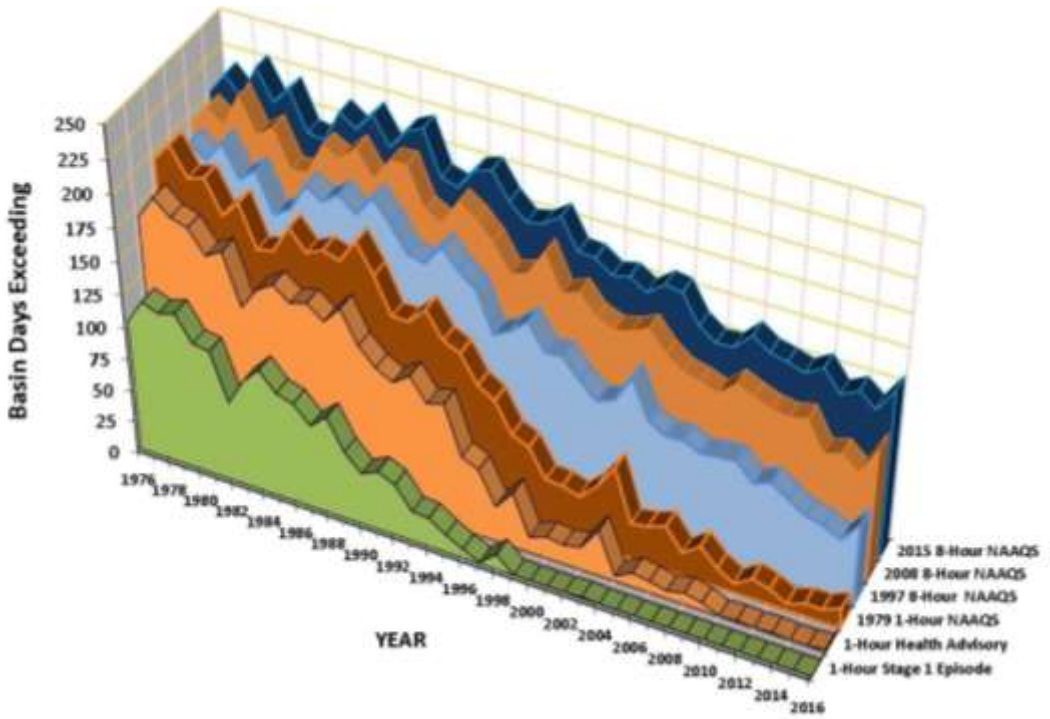
The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, "the remarkable historical improvement in air quality since the 1970's is the direct result of Southern California's comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs," (20).

Ozone, NO_X, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (21). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled in the SCAB continue to increase, NO_X and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. Ozone contour maps show that the number of days exceeding the national 8-hour standard has decreased between 1997 and 2007. In the 2007 period, there was an overall decrease in exceedance days compared with the 1997 period. Ozone levels in the SCAB have decreased substantially over the last 30 years as shown in Table 2-5 (22). Today, the maximum measured concentrations are approximately one-third of concentrations within the late 70's.

TABLE 2-5: SCAB OZONE TREND



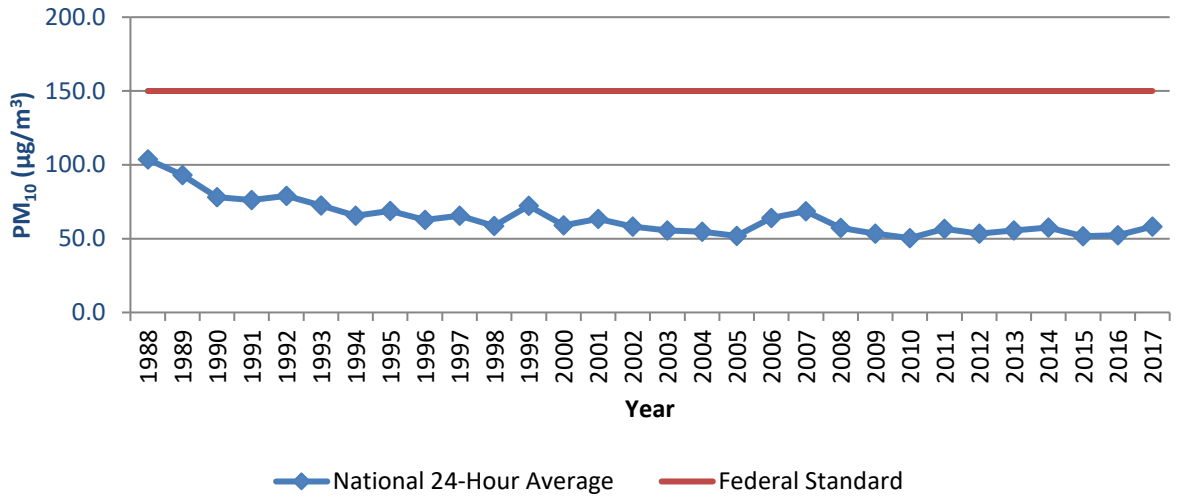
Source: SCAQMD

The overall trends of PM_{10} and $PM_{2.5}$ levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM_{10} have remained somewhat constant in the SCAB and direct emissions of $PM_{2.5}$ have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct particulate matter emissions.

As with other pollutants, the most recent PM_{10} statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM_{10} decreased by approximately 44 percent, from

103.7 µg/m³ in 1988 to 58.2 µg/m³ in 2017 (23). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations will exceed the threshold. The 24-hour state annual average fo emissions for PM_{10}, have decreased by approximately 56 percent since 1988 (23). Although data in the late 1990's show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM_{10} standards has also shown an overall drop.

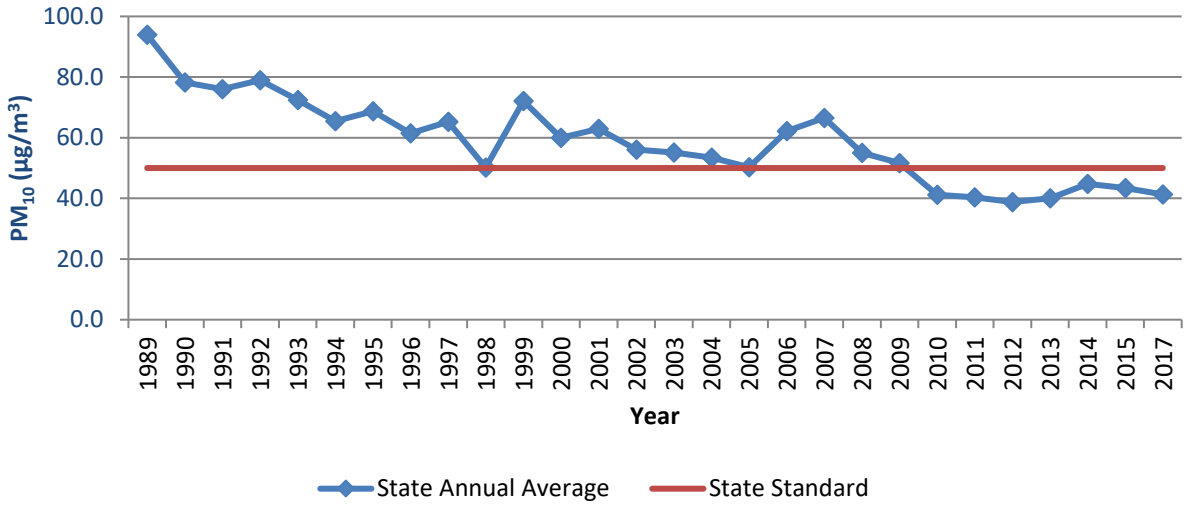
TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM_{10} TREND (BASED ON FEDERAL STANDARD) [1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no data) has been reported. Values of "0" have also been omitted.

TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM_{10} TREND (BASED ON STATE STANDARD)[1]

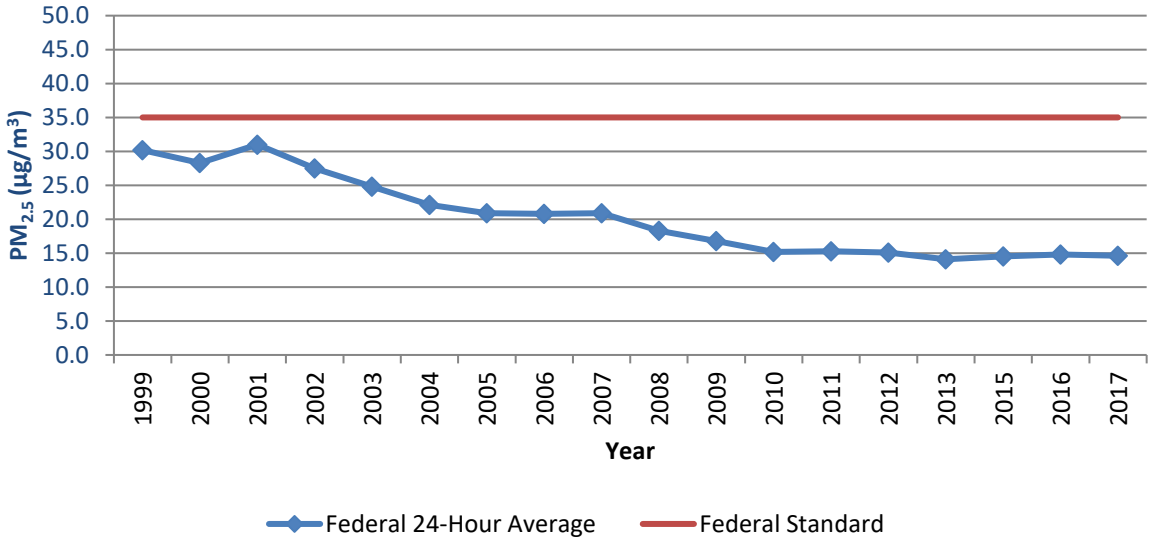


Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no data) has been reported. Values of "0" have also been omitted.

Tables 2-8 and 2-9 shows the most recent 24-hour average $PM_{2.5}$ concentrations in the SCAB from 1999 through 2017. Overall, the national and state annual average concentrations have decreased by almost 52 percent and 30 percent respectively (23). The SCAB is currently designated as nonattainment for the State and federal $PM_{2.5}$ standards.

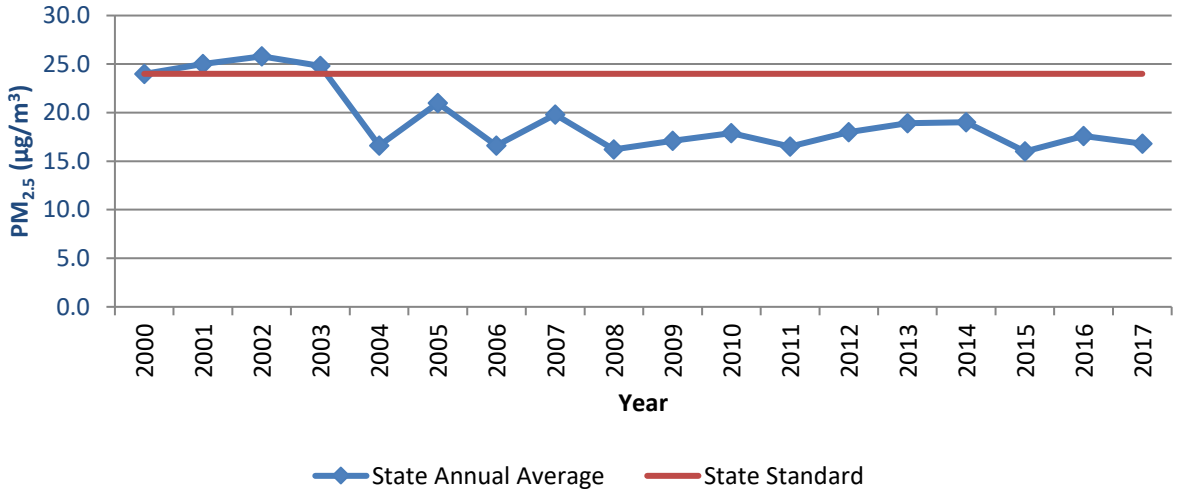
TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON FEDERAL STANDARD)[1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no data) has been reported. Values of "0" have also been omitted.

TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION $PM_{2.5}$ TREND (BASED ON STATE STANDARD)[1]



Source: CARB

[1] Some year have been omitted from the table as insufficient data (or no data) has been reported. Values of "0" have also been omitted.

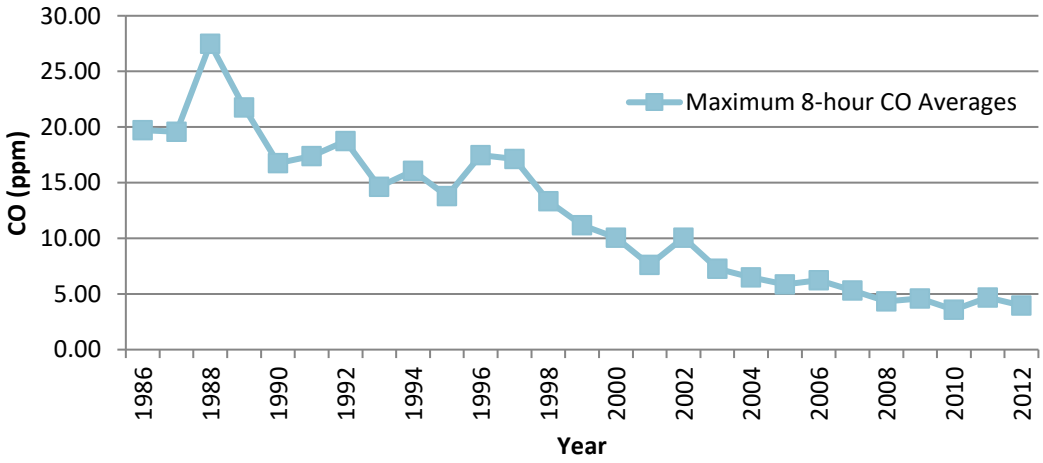
While the 2012 AQMP PM_{10} attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured $PM_{2.5}$.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of $PM_{2.5}$- equivalent emission reductions continued through 2015, the severe drought conditions contributed to the $PM_{2.5}$ increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour $PM_{2.5}$ standard, SCAQMD submitted a request and the EPA approved, in January 2016, a "bump up" to the nonattainment classification from "moderate" to "serious," with a new attainment deadline as soon as practicable, but not beyond December 31, 2019.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (24). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 Regional Transportation Plan/Sustainable Communities Strategy RTP/SCS and updated emission inventory methodologies for various source categories (19).

The most recent CO concentrations in the SCAB are shown in Table 2-10 (23). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80 percent in the peak 8-hour concentration since 1986. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

TABLE 2-10: SCAB 24-HOUR AVERAGE CONCENTRATION CO TREND[1]



Source: CARB

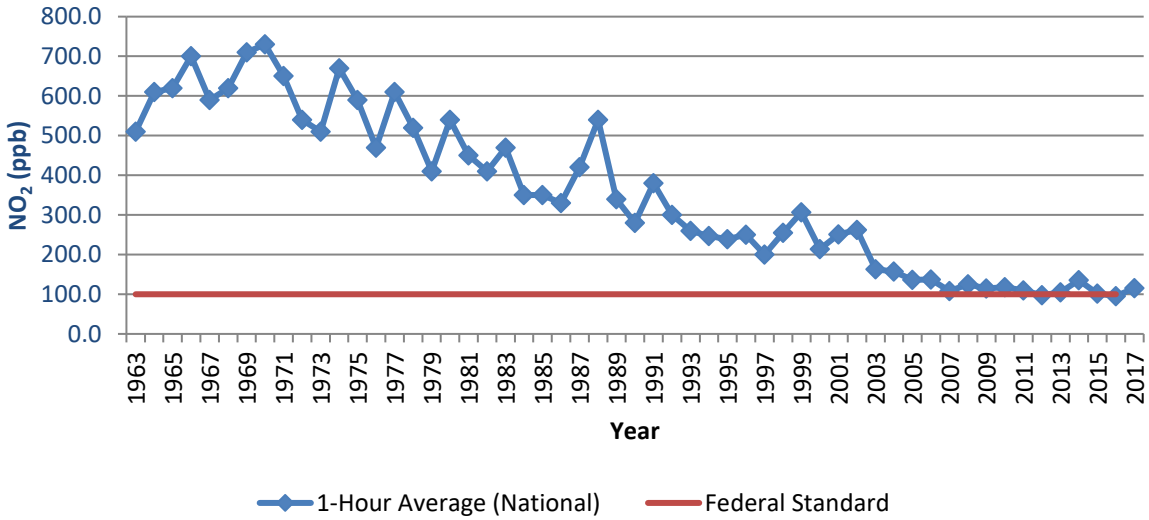
[1] The most recent year where 8-hour concentration data is available is 2012.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's CEQA Handbook (25). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

The most recent NO_2 data for the SCAB is shown in Tables 2-11 and 2-12 (23). Over the last 50 years, NO_2 values have decreased significantly; the peak 1-hour national and state averages for 2017 is approximately 77 percent lower than what it was during 1963. The SCAB attained the State 1-hour NO_2 standard in 1994, bringing the entire State into attainment. A new state annual average standard of 0.030 parts per million (ppm) was adopted by the CARB in February 2007 (26). The new standard is just barely exceeded in the South Coast. NO_2 is formed from NO_X emissions, which also contribute to ozone. As a result, the majority of the future emission control measures will be implemented as part of the overall ozone control strategy. Many of these control measures will target mobile sources, which account for more than three-quarters of California's NO_X emissions. These measures are expected to bring the South Coast into attainment of the State annual average standard.

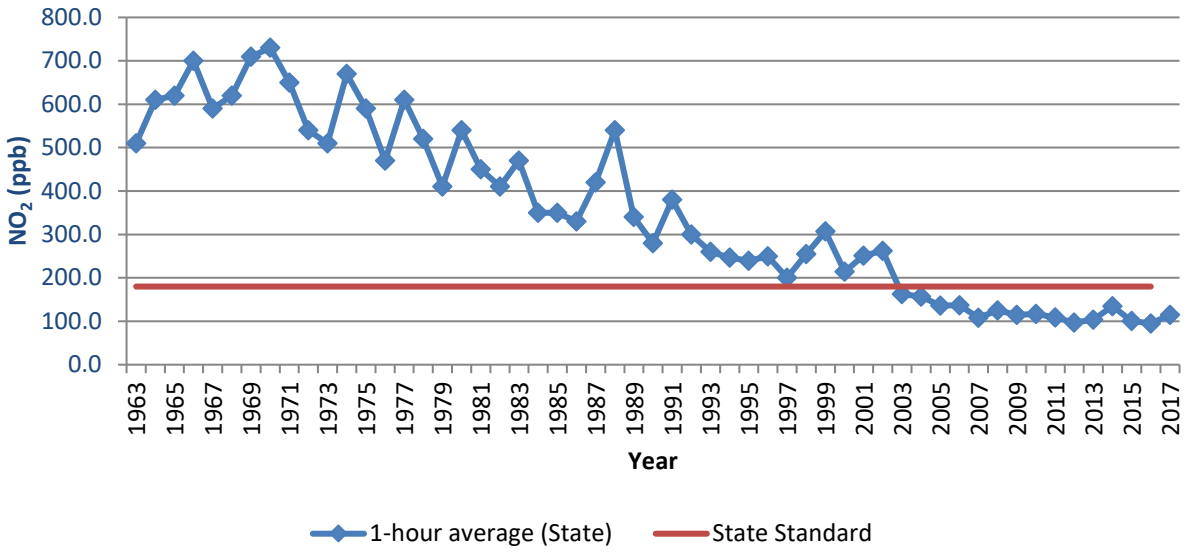
The American Lung Association website includes data collected from State air quality monitors that are used to compile an annual State of the Air report. The latest State of the Air Report compiled for the SCAB was in 2017 (27). As noted in this report, air quality in the SCAB has significantly improved in terms of both pollution levels and high pollution days over the past three decades. The area's average number of high ozone days dropped from 230 days in the initial 2000 State of the Air report (1996–1998) to 142 days in the 2017 report. The region has also seen dramatic reduction in particle pollution since the initial 2000 State of the Air report (27).

TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON FEDERAL STANDARD)



Source: CARB

TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO_2 TREND (BASED ON STATE STANDARD)



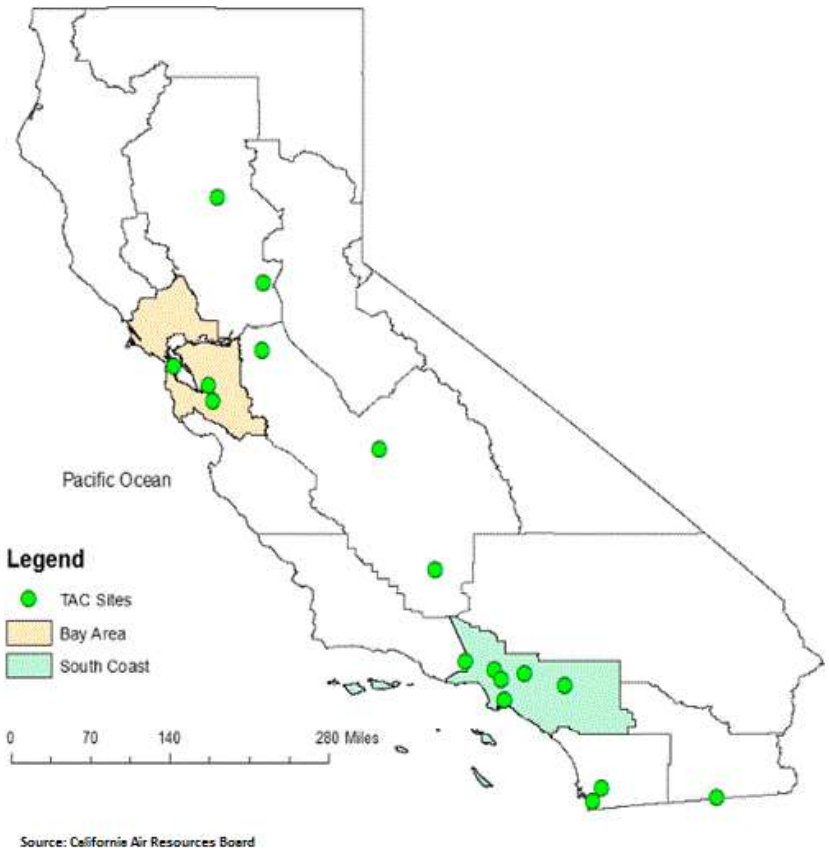
Source: CARB

TOXIC AIR CONTAMINANTS (TACS) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, the CARB adopted regulations to reduce the amount of air toxic contaminant emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (28) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene, and 1,3-butadiene; those that are derived from stationary sources: perchloroethylene and hexavalent chromium; and those derived from photochemical reactions of emitted VOCs: formaldehyde and acetaldehyde[3]. TACs data was gathered at monitoring sites from both the Bay Area and SCAB, as shown on Exhibit 2-A; Several of the sites in the SCAB include Reseda, Compton, Rubidoux, Burbank, and Fontana. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

[3] It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

EXHIBIT 2-A: CALIFORNIA TOXIC AIR CONTAMINANT SITES



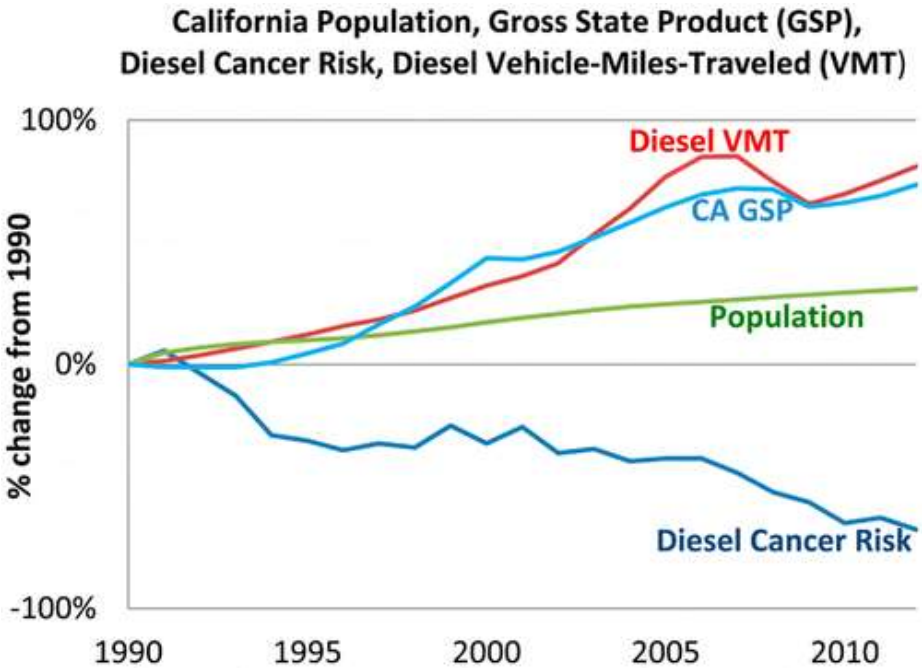
Mobile Source TACs

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase Check Engine or Service Engine Soon. The system will also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. ARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 lbs. CARB's phase II Reformulated Gasoline (RFG-2) regulation, adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (28).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's

population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, ARB expects a DPM decline of 71% for 2000-2020.

EXHIBIT 2-B: DIESEL PARTICULATE MATTER AND DIESEL VEHICLE MILES TREND



Source: California Air Resources Board

DIESEL REGULATIONS

The CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing diesel particulate matter (DPM). More specifically, the CARB Drayage Truck Regulation (29), the CARB statewide On-road Truck and Bus Regulation (30), and the Ports of Los Angeles and Long Beach "Clean Truck Program" (CTP) require accelerated implementation of "clean trucks" into the statewide truck fleet (31). In other words, older more polluting trucks will be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, will dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

CANCER RISK TRENDS

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment

process, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study, called MATES-II (for Multiple Air Toxics Exposure Study). Diesel particulate matter (DPM) accounts for more than 70 percent of the cancer risk.

In 2008 the SCAQMD prepared an update to the MATES-II study, referred to as MATES-III. MATES-III estimates the average excess cancer risk level from exposure to TACs is an approximately 17% decrease in comparison to the MATES-II study.

In 2015, the SCAQMD published an in-depth analysis of the toxic air contaminants and the resulting health risks for all of Southern California. The *Multiple Air Toxics Exposure Study in the SCAB, MATES IV,"* which shows that cancer risk has decreased less than 50% since MATES III (2005) (32).

MATES-IV study represents the baseline health risk for a cumulative analysis. MATES-IV calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-IV has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. MATES-IV modeling predicted an excess cancer risk of 863.99 in one million for the Project area. DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 68% of the total risk shown in MATES-IV. Cumulative Project generated TACs are limited to DPM.

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements will be conducted over a one-year period at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V will also include measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV (33). The final report for the MATES V study is currently expected to be available in Fall 2019, however no definitive date has been provided.

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3 PROJECT AIR QUALITY IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will violate an air quality standard or contribute to an existing or projected air quality violation. Additionally, the Project has been evaluated to determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment under an applicable federal or state ambient air quality standard. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 California Code of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. affecting a substantial number of people.

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (34). The SCAQMD's CEQA Air Quality Significance Thresholds (March 2015) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
Regional Thresholds		
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

lbs/day – Pounds Per Day
Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, March 2015

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ESTIMATE AQ EMISSIONS

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

On October 17, 2017, the SCAQMD in conjunction with the CAPCOA and other California air districts, released the latest version of the California Emissions Estimator Model™ (CalEEMod™) v2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (35). Accordingly, the latest version of CalEEMod™ has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for both construction and operational activity are provided in Appendices 3.1 through 3.3.

3.3.1 LAND USES MODELED IN CALEEMOD

The Project is located on 1,980,673 sf/45.47 acres. As previously stated, the Project proposes to construct the following uses:

- 560,291 sf of warehousing use (Buildings 1 through 6)
- 520,317 sf of high-cube fulfillment center use (Building 7)

CalEEMod does not provide an extensive selection of land use subtype categories, land uses that most closely fit the Project will be utilized. For purposes of analysis, the following land uses were modeled (36):

- 560.291 thousand square feet (TSF)/12.86 acres of Unrefrigerated Warehouse – No Rail[4]
- 520.317 TSF/11.94 acres of Unrefrigerated Warehouse – Rail[5]
- 67.64 TSF/1.55 acres Other Non-Asphalt Surfaces[6]
- 156.03 TSF/3.58 acres Other Asphalt Surfaces[7]
- 1,691 Space Parking Lot[8] on 15.54 acres

3.3.2 EMISSION FACTORS MODEL

Vehicle emissions were estimated using information generated within the 2017 version of the Emission Factor model (EMFAC) developed by the CARB. EMFAC2017 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the

[4] CalEEMod defines Unrefrigerated Warehouse – No Rail uses are warehouse uses that do not have refrigeration and a rail spur.

[5] Unrefrigerated Warehouse – Rail uses are defined as warehouse uses that do not have refrigeration by a rail spur.

[6] The User's Guide defines Other Non-Asphalt Surfaces as non-asphalt areas. As indicated on the site plan, the landscaped area is approximately 10% of the interior parking area. For purposes of analysis, this category is used to model the 67,640 sf/1.55 acre of Landscaped areas.

[7] For purposes of analysis, the remaining 156,030 sf/3.58 acre of Paved/Yard Area (including roadway improvements along Limonite Avenue and Archibald Avenue) will be modeled as Other Asphalt Surfaces. These surfaces are defined as an asphalt area not used as a parking lot.

[8] CalEEMod default of 676,400 sf/15.54 acres will be used to model the 1,691 parking spaces.

CARB to project changes in future emissions from on-road mobile sources (37). This AQIA utilizes summer, winter, and annual EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season.

3.4 CONSTRUCTION EMISSIONS

Construction activities associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating
- Off-Site Utility and Infrastructure Improvements

Dust is typically a major concern during demolition and grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions". Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). The CalEEMod model was utilized to calculate fugitive dust emissions resulting from this phase of activity.

Demolition

The Project site is currently developed with six (6) building structures, approximately 23 sheds, and asphalt. It should be noted that information regarding demolition quantities have not been provided and is not readily available online. As such, the total building square footage was estimated to be roughly 38,321.98 sf. In order to account for the existing sheds and asphalt, a 30% contingency (11,496.59 sf) was applied to the total building square footage. As a conservative measure, this analysis assumes that the Project would demolish 49,818.57 sf of building.

Grading Activities

The Project is anticipated to include soil import and export within the Project site boundaries as a part of Project construction. Based on information provided by the Project Applicant, the Project is expected require 94,000 cubic yards of cut and 61,000 cubic yards of fill. For purposes of analysis, 33,000 cubic yards of export will be analyzed along with the CalEEMod default hauling trip length of 20 miles.

Off-Site Utility and Infrastructure Improvements

Construction emissions associated with off-site utility and infrastructure improvements may occur, however at this time, a specific schedule of off-site utility and infrastructure improvements is unknown. However, impacts associated with these expected activities are not expected to exceed the emissions identified for Project-related construction activities. As such, no impacts beyond what has already been identified in this report are expected to occur.

Construction Worker Vehicle Trips

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from CalEEMod model defaults.

3.4.1 CONSTRUCTION DURATION

Construction is expected to commence in January 2020 and will last through December 2021. The construction schedule utilized in the analysis, shown in Table 3-2, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[9] The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines*. The duration of construction activity was based on the 2021 opening year, consistent with *The Homestead Traffic Impact Analysis* (Urban Crossroads, Inc.) (TIA) (38).

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	01/06/2020	03/13/2020	50
Site Preparation	03/14/2020	04/24/2020	30
Grading	04/25/2020	08/07/2020	75
Building Construction	08/08/2020	12/10/2021	350
Paving	10/02/2021	12/17/2021	55
Architectural Coating	08/01/2021	12/17/2021	100

Source: Construction activity based the 2021 opening year.

In order to meet the 2021 opening year, the CalEEMod default number of days for the building construction phase was reduced to 350 days. Additionally, it is assumed that paving and architectural coating activities would be conducted concurrent with the building construction.

[9] As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.2, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

3.4.2 CONSTRUCTION EQUIPMENT

Site specific construction fleet may vary due to specific project needs at the time of construction. The associated construction equipment was generally based on CalEEMod 2016.3.2 defaults. A detailed summary of construction equipment assumptions by phase is provided at Table 3-3.

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Activity	Equipment	Number	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Preparation	Rubber Tired Dozers	3	8
	Tractors/Loaders/Backhoes	4	8
Grading	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Tractors/Loaders/Backhoes	2	8
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Source: Construction equipment based on CalEEMod defaults.

3.4.2 CONSTRUCTION EMISSIONS SUMMARY

Impacts without Mitigation

CalEEMod calculates maximum daily emissions for summer and winter periods. The estimated maximum daily construction emissions without mitigation are summarized on Table 3-4. CalEEMod calculates maximum daily emissions for summer and winter periods. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction will not exceed criteria pollutant thresholds established by the SCAQMD for emissions of any criteria pollutant.

TABLE 3-4: OVERALL CONSTRUCTION EMISSIONS SUMMARY (WITHOUT MITIGATION)

Phase	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
2020	7.39	63.28	57.63	0.21	12.82	6.02
2021	61.38	66.52	77.57	0.25	15.36	5.43
Winter						
2020	7.36	63.40	52.27	0.19	12.82	6.02
2021	61.34	66.35	71.33	0.23	15.36	5.43
Maximum Daily Emissions	**61.38**	**66.52**	**77.57**	**0.25**	**15.36**	**6.02**
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	**YES**	**YES**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod regional construction-source emissions are presented in Appendix 3.1.

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

3.5.1 AREA SOURCE EMISSIONS

Architectural Coatings

Over a period of time, the buildings that are part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using the CalEEMod.

Consumer Products

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within the CalEEMod model.

Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in the CalEEMod model.

3.5.2 ENERGY SOURCE EMISSIONS

Combustion Emissions Associated with Natural Gas and Electricity

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity is generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

Title 24 Energy Efficiency Standards

California's Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. As such, the analysis herein assumes compliance with the 2019 Title 24 Standards.

3.5.3 MOBILE SOURCE EMISSIONS

Vehicles

Project-related operational air quality emissions derive predominantly from mobile sources. In this regard, approximately 85 percent (by weight) of all Project operational-source emissions would be generated by mobile sources (vehicles). More specifically, 91 percent of the Project's NO_X emissions are derived from heavy duty truck trips. Neither the Project Applicant nor the City have any regulatory control over these tail pipe emissions. Rather, vehicle tail pipe source emissions are regulated by CARB and EPA. As summarized previously herein, as the result of CARB and EPA actions, basin-wide vehicular-source emissions have been reduced dramatically over the past years and are expected to further decline as clean vehicle and fuel technologies improve.

The Project related operational air quality emissions derive primarily from vehicle trips generated by the Project. Trip characteristics available from the TIA report were utilized in this analysis. Per TIA prepared by Urban Crossroads, Inc. the Project is expected to generate a total of approximately 2,102 two-way trips per day (actual vehicles) (38). The Project trip generation includes 408 two-way truck trips per day. The passenger car and truck fleet for the proposed industrial uses are broken down by passenger car and truck type (or axle type).

3.5.3.1 Trip Length

Trip lengths for passenger cars and trucks were determined based on the regional traffic model. The Riverside County Traffic Analysis Model (RivTAM) was used to estimate trip lengths for the Project's passenger cars and trucks.

More specifically, RivTAM was utilized to conduct select zone model runs for the proposed Project. RivTAM was prepared for the Riverside County Transportation Department as a sub-regional model based on SCAG model, which includes the entire SCAG region.

Based on RivTAM, the average trip length for trucks was calculated to be 36.2 miles. The trip length for automobiles (passenger cars, small trucks, motorcycles, etc.) was calculated to be 14.4 miles (39).

The use of a travel demand model is supported by substantial evidence since the information contained in the model is specific to the region and for the land use type being proposed. Furthermore, the use of travel demand models is also a recommended practice that is being promoted by the Governor's Office of Planning and Research (OPR) in their updated CEQA guidelines with respect to Senate Bill (SB) 743. Specifically, the latest technical advisory documentation published by OPR (December 2018 see Page 30-31) (40) explicitly states that:

> *…agencies can use travel demand models or survey data to estimate existing trip lengths and input those into sketch models such as CalEEMod to achieve more accurate results. Whenever possible, agencies should input localized trip lengths into a sketch model to tailor the analysis to the project location.*

The procedure described by OPR in their SB 743 technical advisory is precisely the method that has been used to calculate trip lengths and consequently VMT for the Project.

3.5.3.2 Approach for Analysis of the Project

Two Separate model runs were utilized for each phase in order to more accurately model emissions resulting from passenger car and truck operations.

Passenger Cars

The first run analyzed passenger car emissions, incorporated the RivTAM calculated trip length of 14.4 miles for passenger cars and an assumption of 100% primary trips. It is important to note that although the TIA does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[10] & LDT2[11]), and Medium-Duty-Vehicles (MDV) vehicle types. In order to account for emissions generated by passenger cars, the following fleet mix was utilized in this analysis:

[10] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[11] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

TABLE 3-5: PASSENGER CAR FLEET MIX

Phase Name	Vehicle Type	%
Warehouse	LDA	61.40
	LDT1	4.30
	LDT2	21.00
	MDV	13.30
High-Cube Fulfillment Center Warehouse	LDA	61.40
	LDT1	4.30
	LDT2	21.00
	MDV	13.30

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicles types.

Trucks

The second run analyzed truck emissions, incorporated the RivTAM calculated trip length of 36.2 miles for trucks and an assumption of 100% primary trips. The truck fleet mix is estimated by rationing the trip rates for each truck type based on information provided in the TIA. Heavy trucks are broken down by truck type (or axle type) and are categorized as either Light-Heavy-Duty Trucks (LHDT)/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. In order to account for emissions generated by trucks, the following fleet mix was utilized in this analysis:

TABLE 3-6: TRUCK FLEET MIX

Phase Name	Vehicle Type	%
Warehouse	LHDT	10.70
	MHDT	10.70
	HHDT	78.60
High-Cube Fulfillment Center Warehouse	LHDT	16.70
	MHDT	20.70
	HHDT	62.60

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT, MHDT, and HHDT) relative to the total number of truck trips.

It should be noted that the TIA identifies two different truck categories for the high-cube fulfillment center warehouse use, 2-4-axle and 5+-axle trucks. CalEEMod categorizes trucks by truck type, not by axle-type. In order to account for emissions from LHDT, MHDT, and HHDT trucks, the analysis herein assumed that 25 percent of the 2-4 axle trucks are LHDT, 25 percent are MHDT, and the remaining 50 percent are HHDT.

Fugitive Dust Related to Vehicular Travel

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of break and tire wear particulates. The emissions estimates for travel on paved roads were calculated using the CalEEMod model (41).

3.5.4 ON-SITE EQUIPMENT EMISSIONS

It is common for industrial buildings to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. The most common type of cargo handling equipment is the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. The cargo handling equipment is assumed to have a horsepower (hp) range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (42); for example, high-cube warehouse projects typically have 3.6 yard trucks per million square feet of building space. For this particular Project, based on the maximum square footage of manufacturing use permitted by the proposed Project, on-site modeled operational equipment includes four (4) 200 hp, compressed natural gas-powered yard tractors operating at 4 hours a day for 365 days of the year**.**

3.5.5 OPERATIONAL EMISSIONS SUMMARY

Impacts without Mitigation

As previously stated, CalEEMod utilizes summer and winter EMFAC2017 emission factors in order to derive vehicle emissions associated with Project operational activities, which vary by season. As such, operational activities for summer and winter scenarios are presented in Table 3-7. Detailed operation model outputs are presented in Appendices 3.2 through 3.3. As shown on Table 3-7, Project operational-source emissions would exceed the SCAQMD regional thresholds of significance for emissions of NO_X. It is important to note that 47 percent of the Project's NO_X emissions are derived from heavy duty truck trips. Since the Project does not have regulatory authority to control tailpipe emissions, no feasible mitigation measures exist that would reduce NO_X emissions to levels that are less-than-significant, thus these emissions are considered significant and unavoidable.

TABLE 3-7: SUMMARY OF OPERATIONAL EMISSIONS

Operational Activities – Summer Scenario	Emissions (lbs/day)					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Area Source	24.56	2.82e-03	0.31	2.00e-05	1.10e-03	1.10e-03
Energy Source	0.05	0.42	0.35	2.49e-03	0.03	0.03
Mobile Source (Passenger Cars)	4.78	3.71	63.03	0.18	18.57	4.98
Mobile Source (Trucks)	2.82	100.01	18.82	0.36	14.31	5.12
On-Site Equipment	0.55	6.18	0.10	0.01	0.21	0.19
Total Maximum Daily Emissions	**32.75**	**110.32**	**82.60**	**0.55**	**33.12**	**10.33**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**
Operational Activities – Winter Scenario	**Emissions (lbs/day)**					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Area Source	24.56	2.82e-03	0.31	2.00e-05	1.10e-03	1.10e-03
Energy Source	0.05	0.42	0.35	2.49e-03	0.03	0.03
Mobile Source (Passenger Cars)	4.24	3.84	51.41	0.16	18.57	4.98
Mobile Source (Trucks)	2.76	104.39	18.09	0.36	14.30	5.12
On-Site Equipment	0.55	6.18	0.10	0.01	0.21	0.19
Total Maximum Daily Emissions	**32.16**	**114.84**	**70.25**	**0.54**	**33.11**	**10.33**
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	**NO**	**YES**	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod regional operational-source emissions are presented in Appendices 3.2 and 3.3.

3.6 LOCALIZED SIGNIFICANCE - CONSTRUCTION ACTIVITY

BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLD (LST) DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (43). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The significance of localized emissions impacts depends on whether ambient levels in the vicinity of any given project are above or below State standards. In the case of CO and NO_2, if ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a state or federal standard, then project emissions are considered significant if they

increase ambient concentrations by a measurable amount. This would apply to PM_{10} and $PM_{2.5}$; both of which are non-attainment pollutants.

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[12]. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (44).

APPLICABILITY OF LSTS FOR THE PROJECT

For this Project, the appropriate Source Receptor Area (SRA) for the LST analysis is the SCAQMD Corona/Norco Area monitoring station (SRA 22). LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- CalEEMod is utilized to determine the maximum daily on-site emissions that will occur during construction activity.
- The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds (45) is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.
- If the total acreage disturbed is less than or equal to five acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in pounds per day that can be compared to CalEEMod outputs.
- If the total acreage disturbed is greater than five acres per day, then LST impacts are appropriately evaluated through dispersion modeling.

EMISSIONS CONSIDERED

SCAQMD's *LST Methodology* clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (43)." Therefore, for purposes of the construction LST analysis, only emissions included in the CalEEMod "on-site" emissions outputs were considered.

[12] The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "…equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."

MAXIMUM DAILY DISTURBED-ACREAGE

Table 3-8 is used to determine the maximum daily disturbed acreage for use in determining the applicability of the SCAQMD's LST look-up tables. Based on Table 3-6, the proposed Project could actively disturb approximately 1.0 acre per day during demolition activities, 1.5 acres per day during site preparation activities, and 3.0 acres per day during grading activities. The acres disturbed is based on the equipment list and days in for demolition, site preparation, and grading according to the anticipated maximum number of acres a given piece of equipment can pass over in an 8-hour workday (as shown on Table 3-8). The equipment-specific grading rates are summarized in the CalEEMod user's guide, *Appendix A: Calculation Details for CalEEMod* (October 2017). For purposes of analysis, the Project's site preparation and grading activities are modeled after SCAQMD's Summary of Five Acre Site. As such, the maximum daily disturbed acreage of five acres is used in determining the applicability of the SCAQMD's LST look-up tables. This methodology is consistent with recent recommendations made by SCAQMD planning staff.

TABLE 3-8: MAXIMUM DAILY DISTURBED-ACREAGE

Construction Phase	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Demolition	Rubber Tired Dozers	2	0.5	8	1.0
Total acres disturbed per day during Demolition					1.0
Site Preparation	Rubber Tired Dozers	3	0.5	8	1.5
Total acres disturbed per day during Site Preparation					1.5
Grading	Graders	1	0.5	8	0.5
	Rubber Tired Dozers	1	0.5	8	0.5
	Scrapers	2	1.0	8	2.0
Total acres disturbed per day during Grading					3.0

Source: Maximum daily disturbed acreage based on equipment list presented in Appendix 3.1.

SENSITIVE RECEPTORS

As previously stated, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities. This AQIA analyzes localized construction and operational emissions impacts at the nearest sensitive receptors.

Residential Receptors

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that house these persons or places where they gather to

exercise are defined as "sensitive receptors"; they are also known to be locations where an individual can remain for 24 hours.

Non-Residential Receptors

As per the *LST Methodology*, commercial and industrial facilities are not included in the definition of sensitive receptor because employees do not typically remain onsite for a full 24 hours but are typically onsite for eight hours. However, it should be noted that the *LST Methodology* explicitly states that "*LSTs based on shorter averaging periods, such as the NO_2 and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours* (43)." Consistent with the SCAQMD's Final LST Methodology, the nearest industrial or commercial use to the Project site will be used to determine operational and construction air impacts for emissions of NO_2 and CO.

Project-related Sensitive Receptors

Sensitive receptors in the Project study area include existing residential homes and industrial uses. The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual and cumulatively significant impact. As such, the nearest residential receptor to the Project site is located approximately 285 feet/87 meters northeast Project site on Remington Avenue. Alternatively, the nearest non-residential receptor is an industrial building located 10 feet/3 meters south of the Project site on Archibald Avenue. For purposes of analysis, an 87-meter receptor distance is utilized as a screening threshold to determine LSTs for emissions of PM_{10} and $PM_{2.5}$. It should be noted that although the nearest non-sensitive receptor is 3-meters from the Project site, the *LST Methodology* explicitly states that "*It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters* (43)." As such a 25-meter receptor distance will be used for NO_2 and CO.

LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

Since the total acreage disturbed is less than five acres per day for demolition, site preparation, and the grading phases, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized, consistent with SCAQMD guidance, in order to interpolate the threshold values for the other disturbed acreage and distances not identified in the look-up tables.

TABLE 3-9: MAXIMUM DAILY LOCALIZED EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
Localized Thresholds		
NO_X	118 lbs/day (Demolition)	270 lbs/day
	144 lbs/day (Site Preparation)	
	203 lbs/day (Grading)	
CO	674 lbs/day (Demolition)	1,700 lbs/day
	841 lbs/day (Site Preparation)	
	1,238 lbs/day (Grading)	
PM_{10}	27 lbs/day (Demolition)	13 lbs/day
	30 lbs/day (Site Preparation)	
	40 lbs/day (Grading)	
$PM_{2.5}$	8 lbs/day (Demolition)	4 lbs/day
	9 lbs/day (Site Preparation)	
	13 lbs/day (Grading)	

Source: Localized Thresholds presented in this table are based on the SCAQMD Final Localized Significance Threshold Methodology, July 2008

CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

Impacts without Mitigation

Table 3-10 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Outputs from the model runs for construction LSTs are provided in Appendix 3.1. As shown, Project construction-source emissions would not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for Project-related construction-source emissions and no mitigation is required.

TABLE 3-10: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION, 1 OF 2)

On-Site Demolition Emissions	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**33.20**	**21.75**	**2.04**	**1.60**
SCAQMD Localized Threshold	118	674	27	8
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

TABLE 3-10: LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION (WITHOUT MITIGATION, 2 OF 2)

On-Site Site Preparation Emissions	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**42.42**	**21.51**	**9.86**	**5.96**
SCAQMD Localized Threshold	144	841	30	9
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**
On-Site Grading Emissions	**Emissions (lbs/day)**			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**50.20**	**31.96**	**5.79**	**3.43**
SCAQMD Localized Threshold	203	1,238	40	13
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod localized construction-source emissions are presented in Appendix 3.1.

3.7 LOCALIZED SIGNIFICANCE – LONG-TERM OPERATIONAL ACTIVITY

The Project is located on a 45.47-acre parcel. As noted previously, the LST Methodology provides look-up tables for sites with an area with daily disturbance of 5 acres or less. For projects that exceed 5 acres, the 5-acre LST look-up tables can be used as a screening tool to determine which pollutants require additional detailed analysis. This approach is conservative as it assumes that all on-site emissions associated with the project would occur within a concentrated 5-acre area. This screening method would therefore over-predict potential localized impacts, because by assuming that on-site operational activities are occurring over a smaller area, the resulting concentrations of air pollutants are more highly concentrated once they reach the smaller site boundary than they would be for activities if they were spread out over a larger surface area. On a larger site, the same amount of air pollutants generated would disperse over a larger surface area and would result in a lower concentration once emissions reach the project-site boundary. As such, LSTs for a 5-acre site during operations are used as a screening tool to determine if further detailed analysis is required.

Table 3-11 shows the calculated emissions for the Project's operational activities compared with the applicable LSTs. The LST analysis includes on-site sources only; however, the CalEEMod™ model outputs do not separate on-site and off-site emissions from mobile sources. In an effort to establish a maximum potential impact scenario for analytic purposes, the emissions shown on Table 3-11 represent all on-site Project-related stationary (area) sources. Considering that the trip length used in CalEEMod™ for the Project is approximately 36.2 miles for trucks and 14.4 miles for passenger cars, 5% of this total would represent an on-site travel distance of approximately 1.81 miles/9,557 feet for trucks and 0.72 miles/3,802 feet for passenger cars. Thus the 5% assumption is conservative and would tend to overstate the actual impact. Modeling based on these assumptions demonstrates that even within broad encompassing parameters, Project operational-source emissions would not exceed applicable LSTs. Modeling based on these

assumptions demonstrates that even within broad encompassing parameters, Project operational-source emissions would not exceed applicable LSTs.

OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

Impacts without Mitigation

As shown on Table 3-11 operational emissions will not exceed the LST thresholds for the nearest sensitive receptor. As shown, Project operational-source emissions would not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for Project-related operational-source emissions and no mitigation is required.

TABLE 3-11: LOCALIZED SIGNIFICANCE SUMMARY OF OPERATIONS

Operational Activity	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Maximum Daily Emissions	**12.01**	**4.84**	**1.89**	**0.73**
SCAQMD Localized Threshold	270	1,700	13	4
Threshold Exceeded?	**NO**	**NO**	**NO**	**NO**

Source: CalEEMod localized operational-source emissions are presented in Appendices 3.2 and 3.3.

3.8 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific CO "hot spots" is not needed to reach this conclusion.

An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur. At the time of the 1993 Handbook, the SCAB was designated nonattainment under the CAAQS and NAAQS for CO (46).

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment, as previously noted in Table 2-3. Also, CO concentrations in the Project vicinity have steadily declined, as indicated by historical emissions data presented previously at Table 2-4.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak

morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 3-12.

TABLE 3-12: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire Blvd./Veteran Ave.	4.6	3.5	3.7
Sunset Blvd./Highland Ave.	4	4.5	3.5
La Cienega Blvd./Century Blvd.	3.7	3.1	5.2
Long Beach Blvd./Imperial Hwy.	3	3.1	8.4

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations
Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (46). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph) —or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (47).

Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Tables 3-13. The busiest intersection evaluated was that at Wilshire Blvd. and Veteran Ave., which has a daily traffic volume of approximately 100,000 vehicles per day and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (46). The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).[13] Based on information provided in the TIA, the highest average daily trips on a segment of road would be 32,800 daily trips on Interstate 15 (I-15) southbound ramps and Limonite Avenue, which is lower

13 Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

than the highest daily traffic volumes at Wilshire Blvd. and Veteran Ave. of 100,000 vehicles per day (38). Additionally, the 2003 AQMP determined that the highest traffic volumes on a segment of road is 8,674 vph on La Cienega Boulevard and Century Boulevard. The highest trips on a segment of road for the Project is 4,345 vph on Hamner Avenue and Limonite Avenue. As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP.

TABLE 3-13: TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)
Wilshire Blvd./Veteran Ave.	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719
Sunset Blvd./Highland Ave.	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374
La Cienega Blvd./Century Blvd.	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674
Long Beach Blvd./Imperial Hwy.	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514

Source: 2003 AQMP

TABLE 3-14: PROJECT PEAK TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Archibald Av./Ontario Ranch Rd.	1,546/860	601/1,182	263/790	986/584	3,396/3,416
Archibald Av./Limonite Av.	1,228/907	747/1,481	48/171	950/653	2,973/3,212
Sumner Av./Limonite Av.	702/414	495/829	725/970	752/841	2,675/3,054
Hamner Av./Limonite Av.	1,022/982	618/1,144	774/1,094	776/1,125	3,191/4,345

Source: *The Homestead Traffic Impact Analysis* (Urban Crossroads, Inc., 2019)

The proposed Project considered herein would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study, or based on representative BAAQMD CO threshold considerations, as shown on Table 3-14. Therefore, CO "hot spots" are not an environmental impact of concern for the proposed Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

3.9 AIR QUALITY MANAGEMENT PLANNING

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (48). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 RTP/SCS, a planning document that supports the integration of land use and transportation to help the region meet the federal Clean Air Act requirements (19). The Project's consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the SCAQMD's CEQA Air Quality Handbook (1993) (49). These indicators are discussed below:

Consistency Criterion No. 1: The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

Consistency Criterion No. 1 refers to violations of the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if LSTs or regional significance thresholds were exceeded. As evaluated, the Project's regional and localized construction-source emissions would not exceed applicable regional significance threshold and LST thresholds. As such, a less than significant impact is expected.

Operational Impacts – Consistency Criterion 1

The Project would not exceed the applicable localized thresholds for operational activity. However, the Project would exceed the applicable regional thresholds for emissions of NO_X.

On the basis of the preceding discussion, the Project would have the potential to conflict with the AQMP according to this criterion.

Consistency Criterion No. 2: The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans

adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Eastvale General Plan is considered to be consistent with the AQMP.

Construction Impacts

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities.

Operational Impacts

The City of Eastvale designates the Project site as Light Industrial. The Light Industrial designation allows for a wide variety of industrial and related uses, including assembly and light manufacturing, repair and other service facilities, warehousing, distribution centers, and supporting retail uses (50). As previously stated, the proposed Project is to consist of 560,291 sf warehousing use and 520,317 sf high-cube fulfillment center use, which is consistent with the site's land use designation and intensity.

On the basis of the preceding discussion, the Project is determined to be consistent with the second criterion.

AQMP Consistency Conclusion

The Project would have the potential to result in or cause NAAQS or CAAQS violations. The Project operational-source emissions would exceed the regional significance thresholds for emissions of NO_X. Since no feasible mitigation measures exist that would reduce NO_X emissions to levels that are less-than-significant, these emissions are considered significant and unavoidable. As such, the Project has the potential to conflict with the AQMP.

3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, childcare centers, and athletic facilities can also be considered as sensitive receptors.

The proposed Project would not result in a CO "hotspot" as a result of Project related traffic during ongoing operations, nor would the Project result in a significant adverse health impact as discussed in Section 3.8. Thus, a less than significant impact to sensitive receptors during operational activity is expected.

TOXIC AIR POLLUTANTS FROM PROJECT CONSTRUCTION ACTIVITIES

During short-term construction activity, the Project will also result in some diesel particulate matter (DPM) which is a listed carcinogen and toxic air contaminant (TAC) in the State of California. The 2015 Office of Environmental Health Hazard Assessment (OEHHA) revised risk

assessment guidelines suggest that construction projects as short as 2-6 months may warrant evaluation. Notwithstanding, based on Urban Crossroad's professional opinion and experience in preparing health risk assessments for development projects, given the size of the Project and the relatively small amount of equipment and relative short duration of activity, any DPM generated from construction activity would be negligible and not result in any significant health risks. More detailed information is provided in *The Homestead Health Risk Assessment* (Urban Crossroads, Inc., 2019) (51).

Furthermore, the SCAQMD has acknowledged that they are currently evaluating the applicability of age sensitivity factors and have not established CEQA guidance. More specifically in their response to comments received on SCAQMD Rules 1401 in June 2015 (see Board Meeting June 5, 2015), the SCAQMD explicitly states that (Page A-7 and A-8):

> *The Proposed Amended Rules are separate from the CEQA significance thresholds. The SCAQMD staff is currently evaluating how to implement the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will evaluate a variety of options on how to evaluate health risks under the Revised OEHHA Guidelines under CEQA. The SCAQMD staff will conduct public workshops to gather input before bringing recommendations to the Governing Board. In the interim, staff will continue to use the previous guidelines for CEQA determinations.*

3.11 ODORS

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated

refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (52).

3.12 CUMULATIVE IMPACTS

The Project area is designated as an extreme non-attainment area for ozone, and a non-attainment area for PM_{10}, $PM_{2.5}$, and lead.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (53). In this report the AQMD clearly states (Page D-3):

> *…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*
>
> *Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.*

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which the Basin is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

Construction Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

Operational Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project operational-source air pollutant emissions has the potential to result in exceedances of regional thresholds. Therefore, Project operational-source emissions are considered cumulatively significant and unavoidable.

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5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed The Homestead. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May, 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June, 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS

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APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

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APPENDIX C

MAPS AND TABLES OF AREA DESIGNATIONS FOR STATE AND NATIONAL AMBIENT AIR QUALITY STANDARDS

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

Ambient Air Quality Standards

(Updated 5/4/16)

Pollutant	Averaging Time	California Standards [1]		National Standards [2]		
		Concentration [3]	Method [4]	Primary [3,5]	Secondary [3,6]	Method [7]
Ozone (O_3)[8]	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10)[9]	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5)[9]	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO_2)[10]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO_2)[11]	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)[11]	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas)[11]	—	
Lead[12,13]	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas)[12]	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles[14]	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	**No National Standards**		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[12]	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography			

See footnotes on next page ...

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 $\mu g/m^3$ is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.

3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.

5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.

6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

7. Reference method as described by the U.S. EPA. An “equivalent method” of measurement may be used but must have a “consistent relationship to the reference method” and must be approved by the U.S. EPA.

8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.

9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM10 standards (primary and secondary) of 150 $\mu g/m^3$ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.

10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

11. On June 2, 2010, a new 1-hour SO_2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

    Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.

12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment-transitional, or unclassified for each pollutant, as shown below:

Attainment	A
Nonattainment	N
Nonattainment-Transitional	NA-T
Unclassified	U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

FIGURE 1

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 1

California Ambient Air Quality Standards
Area Designations for Ozone [1]

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTHEAST PLATEAU AIR BASIN				X
Alpine County			X		SACRAMENTO VALLEY AIR BASIN				
Inyo County	X				Colusa and Glenn Counties				X
Mono County	X				Sutter/Yuba Counties				
LAKE COUNTY AIR BASIN				X	Sutter Buttes	X			
LAKE TAHOE AIR BASIN				X	Remainder of Sutter County				X
MOJAVE DESERT AIR BASIN	X				Yuba County				X
MOUNTAIN COUNTIES AIR BASIN					Yolo/Solano Counties		X		
Amador County	X				Remainder of Air Basin	X			
Calaveras County	X				SALTON SEA AIR BASIN	X			
El Dorado County (portion)	X				SAN DIEGO AIR BASIN	X			
Mariposa County	X				SAN FRANCISCO BAY AREA AIR BASIN	X			
Nevada County	X				SAN JOAQUIN VALLEY AIR BASIN	X			
Placer County (portion)	X				SOUTH CENTRAL COAST AIR BASIN				
Plumas County			X		San Luis Obispo County	X			
Sierra County			X		Santa Barbara County		X		
Tuolumne County	X				Ventura County	X			
NORTH CENTRAL COAST AIR BASIN		X			SOUTH COAST AIR BASIN	X			
NORTH COAST AIR BASIN				X					

(1) AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

FIGURE 2

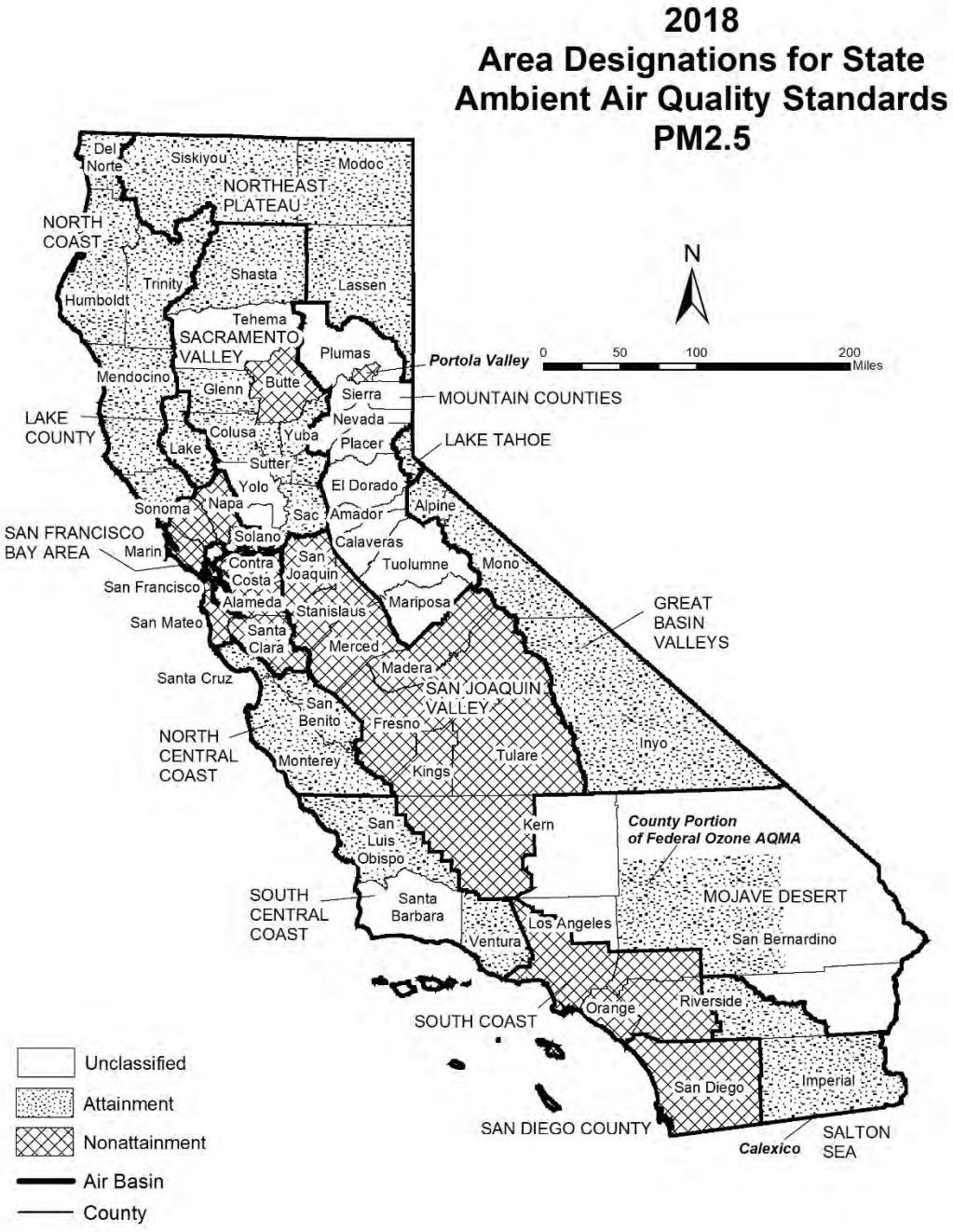
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 2

California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM10)

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN	X			NORTH CENTRAL COAST AIR BASIN	X		
LAKE COUNTY AIR BASIN			X	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	X			Del Norte, Sonoma (portion) and Trinity Counties			X
MOJAVE DESERT AIR BASIN	X			Remainder of Air Basin	X		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		X		Siskiyou County			X
Calaveras County	X			Remainder of Air Basin		X	
El Dorado County (portion)	X			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			X
- Yosemite National Park	X			Remainder of Air Basin	X		
- Remainder of County		X		SALTON SEA AIR BASIN	X		
Nevada County	X			SAN DIEGO AIR BASIN	X		
Placer County (portion)	X			SAN FRANCISCO BAY AREA AIR BASIN	X		
Plumas County	X			SAN JOAQUIN VALLEY AIR BASIN	X		
Sierra County	X			SOUTH CENTRAL COAST AIR BASIN	X		
Tuolumne County		X		SOUTH COAST AIR BASIN	X		

FIGURE 3



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 3

California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)

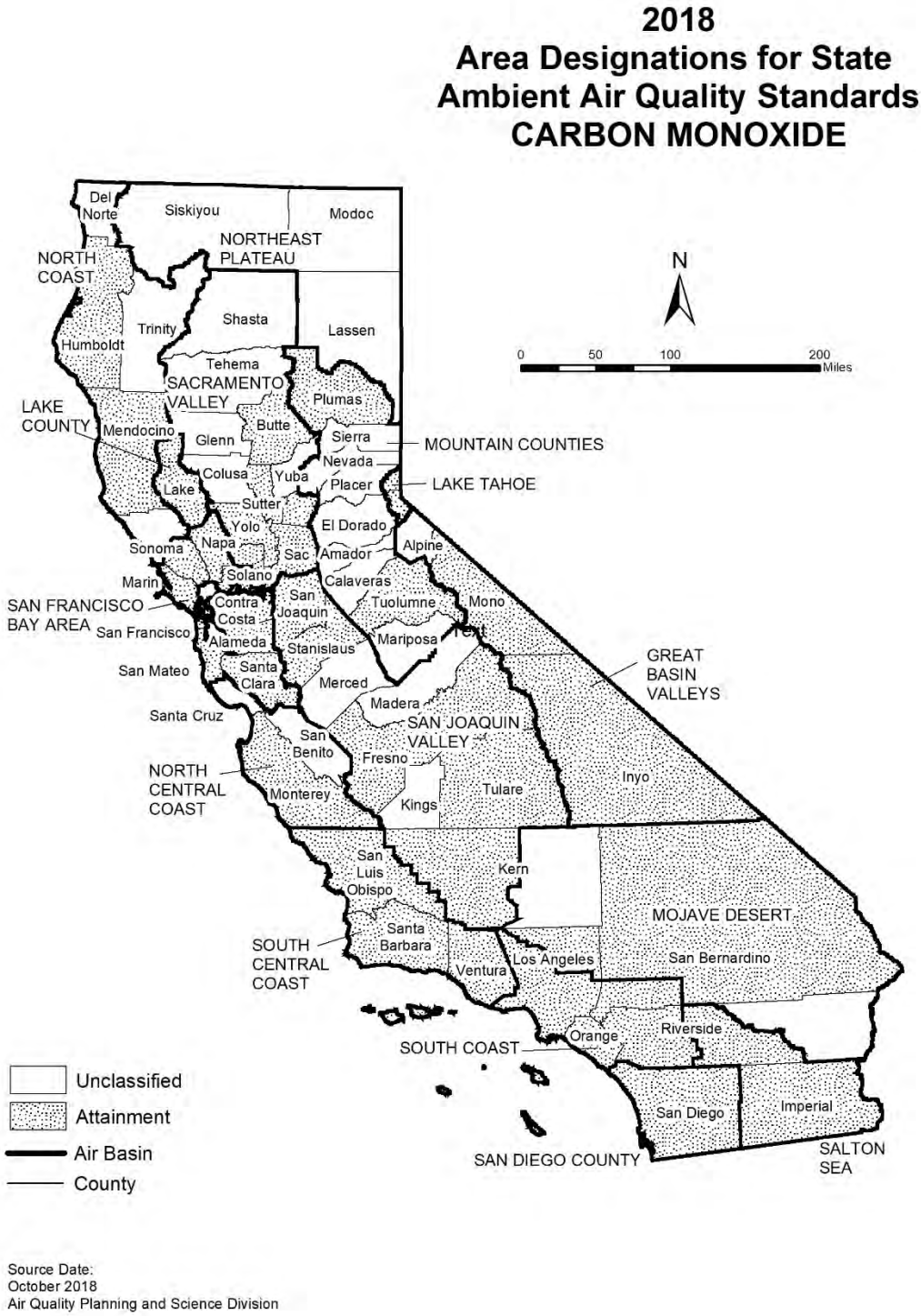
	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			X
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast Desert Modified AQMA for Ozone (1)			X	SAN FRANCISCO BAY AREA AIR BASIN	X		
				SAN JOAQUIN VALLEY AIR BASIN	X		
Remainder of Air Basin		X		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			X
Plumas County				Santa Barbara County		X	
- Portola Valley (2)	X			Ventura County			X
Remainder of Air Basin		X		SOUTH COAST AIR BASIN	X		
NORTH CENTRAL COAST AIR BASIN			X				
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN							
Butte County	X						
Colusa County			X				
Glenn County			X				
Placer County (portion)			X				
Sacramento County			X				
Shasta County			X				
Sutter and Yuba Counties			X				
Remainder of Air Basin		X					

(1) California Code of Regulations, title 17, section 60200(b)

(2) California Code of Regulations, title 17, section 60200(c)

(3) California Code of Regulations, title 17, section 60200(a)

FIGURE 4



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 4

California Ambient Air Quality Standards
Area Designation for Carbon Monoxide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			X		Butte County				X
Inyo County				X	Colusa County			X	
Mono County				X	Glenn County			X	
LAKE COUNTY AIR BASIN				X	Placer County (portion)				X
LAKE TAHOE AIR BASIN				X	Sacramento County				X
MOJAVE DESERT AIR BASIN					Shasta County			X	
Kern County (portion)			X		Solano County (portion)				X
Los Angeles County (portion)				X	Sutter County				X
Riverside County (portion)			X		Tehama County			X	
San Bernardino County (portion)				X	Yolo County				X
MOUNTAIN COUNTIES AIR BASIN					Yuba County			X	
Amador County			X		SALTON SEA AIR BASIN				X
Calaveras County			X		SAN DIEGO AIR BASIN				X
El Dorado County (portion)			X		SAN FRANCISCO BAY AREA AIR BASIN				X
Mariposa County			X		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			X		Fresno County				X
Placer County (portion)			X		Kern County (portion)				X
Plumas County				X	Kings County			X	
Sierra County			X		Madera County			X	
Tuolumne County				X	Merced County			X	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				X
Monterey County				X	Stanislaus County				X
San Benito County			X		Tulare County				X
Santa Cruz County			X		SOUTH CENTRAL COAST AIR BASIN				X
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				X
Del Norte County			X						
Humboldt County				X					
Mendocino County				X					
Sonoma County (portion)			X						
Trinity County			X						
NORTHEAST PLATEAU AIR BASIN			X						

* The area designated for carbon monoxide is a county or portion of a county

FIGURE 5

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 5

California Ambient Air Quality Standards
Area Designation for Nitrogen Dioxide

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			
NORTHEAST PLATEAU AIR BASIN			X	CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
				Remainder of Air Basin			X

FIGURE 6

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 6

California Ambient Air Quality Standards
Area Designation for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SALTON SEA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN DIEGO AIR BASIN		X
MOJAVE DESERT AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X			

* The area designated for sulfur dioxide is a county or portion of a county

FIGURE 7

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 7

California Ambient Air Quality Standards
Area Designation for Sulfates

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

FIGURE 8

Source Date:
October 2018
Air Quality Planning and Science Division

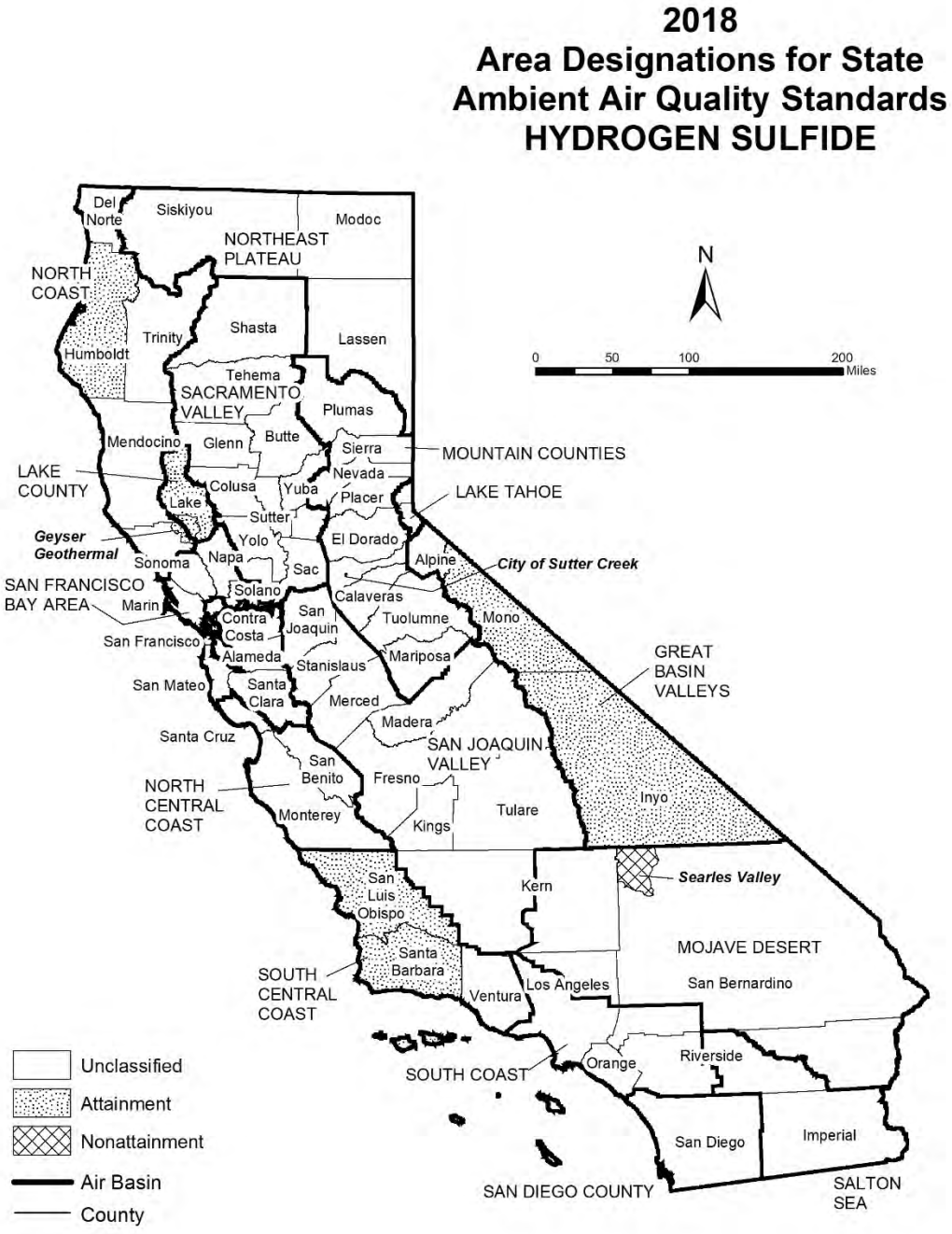
TABLE 8

California Ambient Air Quality Standards
Area Designations for Lead (particulate)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SAN DIEGO AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN			X				

* The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

FIGURE 9



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 9

California Ambient Air Quality Standards
Area Designation for Hydrogen Sulfide*

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			X	
Alpine County			X		NORTH COAST AIR BASIN				
Inyo County				X	Del Norte County			X	
Mono County				X	Humboldt County				X
LAKE COUNTY AIR BASIN				X	Mendocino County			X	
LAKE TAHOE AIR BASIN			X		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				X
Kern County (portion)			X		- Remainder of County			X	
Los Angeles County (portion)			X		Trinity County			X	
Riverside County (portion)			X		NORTHEAST PLATEAU AIR BASIN			X	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			X	
- Searles Valley Planning Area (1)	X				SALTON SEA AIR BASIN			X	
- Remainder of County			X		SAN DIEGO AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			X	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			X	
- City of Sutter Creek	X				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			X		San Luis Obispo County				X
Calaveras County			X		Santa Barbara County				X
El Dorado County (portion)			X		Ventura County			X	
Mariposa County			X		SOUTH COAST AIR BASIN			X	
Nevada County			X						
Placer County (portion)			X						
Plumas County			X						
Sierra County			X						
Tuolumne County			X						

* The area designated for hydrogen sulfide is a county or portion of a county

(1) 52 Federal Register 29384 (August 7, 1987)

(2) California Code of Regulations, title 17, section 60200(d)

FIGURE 10

2018
Area Designations for State Ambient Air Quality Standards
VISIBILITY REDUCING PARTICLES

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 10

California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
LAKE COUNTY AIR BASIN				X	SALTON SEA AIR BASIN			X	
LAKE TAHOE AIR BASIN			X		SAN DIEGO AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X		SAN FRANCISCO BAY AREA AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		SOUTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X		SOUTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X						

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. EPA website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

Designation Categories

Suspended Particulate Matter (PM_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10}:

- Attainment
- Nonattainment
- Unclassifiable

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment
- Unclassifiable/Attainment

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Original designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary $PM_{2.5}$ standard of 12.0 $\mu g/m^3$. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 $\mu g/m^3$ as well as the 24-hour standard of 35 $\mu g/m^3$, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO_2 standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO_2). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment,
- Unclassifiable, and
- Attainment/Unclassifiable.

On June 2, 2010, the U.S. EPA established a new primary 1-hour SO_2 standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual

average standards. Area designations for the 1-hour SO_2 standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 µg/m^3. Designations were made for this standard in November 2010.

Designation Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at:

https://ecfr.io/Title-40/se40.20.81_1305

FIGURE 11

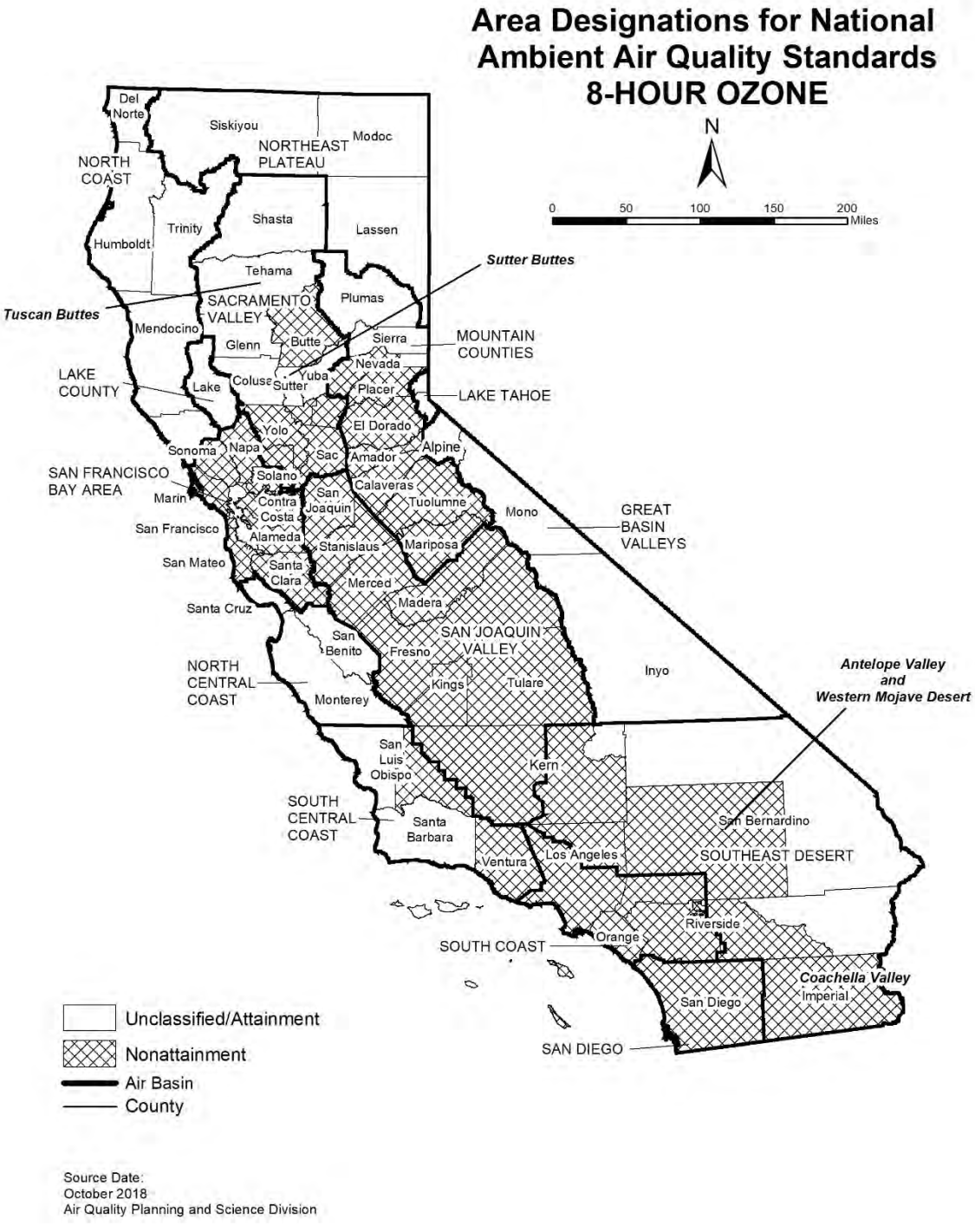

Area Designations for National Ambient Air Quality Standards
8-HOUR OZONE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehama
Sutter Buttes
Tuscan Buttes
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Lake
Colusa
Sutter
Yuba
Placer
LAKE TAHOE
Yolo
El Dorado
Sonoma
Napa
Sac
Amador
Alpine
SAN FRANCISCO BAY AREA
Solano
Marin
Contra Costa
San Joaquin
Calaveras
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
San Benito
SAN JOAQUIN VALLEY
Fresno
Inyo
Antelope Valley and Western Mojave Desert
NORTH CENTRAL COAST
Monterey
Kings
Tulare
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Orange
SOUTH COAST
Coachella Valley
Imperial
San Diego
SAN DIEGO
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 11

National Ambient Air Quality Standards
Area Designations for 8-Hour Ozone*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		X	Yolo County (2)	X	
LAKE TAHOE AIR BASIN		X	Yuba County		X
MOUNTAIN COUNTIES AIR BASIN			SAN DIEGO COUNTY	X	
Amador County	X		SAN FRANCISCO BAY AREA AIR BASIN	X	
Calaveras County	X		SAN JOAQUIN VALLEY AIR BASIN	X	
El Dorado County (portion) (2)	X		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	X		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	X	
- Western Nevada County	X		- Remainder of County		X
- Remainder of County		X	Santa Barbara County		X
Placer County (portion) (2)	X		Ventura County		
Plumas County		X	- Area excluding Anacapa and San Nicolas Islands	X	
Sierra County		X	- Channel Islands (1)		X
Tuolumne County	X		SOUTH COAST AIR BASIN (1)	X	
NORTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		X	Kern County (portion)	X	
NORTHEAST PLATEAU AIR BASIN		X	- Indian Wells Valley		X
SACRAMENTO VALLEY AIR BASIN			Imperial County	X	
Butte County	X		Los Angeles County (portion)	X	
Colusa County		X	Riverside County (portion)		
Glenn County		X	- Coachella Valley	X	
Sacramento Metro Area (2)	X		- Non-AQMA portion		X
Shasta County		X	San Bernardino County		
Sutter County			- Western portion (AQMA)	X	
- Sutter Buttes	X		- Eastern portion (non-AQMA)		X
- Southern portion of Sutter County (2)	X				
- Remainder of Sutter County		X			
Tehama County					
- Tuscan Buttes	X				
- Remainder of Tehama County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2015 8-hour ozone standard of 0.070 ppm.

(1) South Central Coast Air Basin Channel Islands:
Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.
Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:
Los Angeles County includes San Clemente and Santa Catalina Islands.

(2) For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

FIGURE 12


Area Designations for National Ambient Air Quality Standards PM10
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehema
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
LAKE TAHOE
Lake
Sutter
Yolo
El Dorado
Alpine
Sacramento County
Sonoma
Napa
Sac
Amador
Mono
Mono Basin
SAN FRANCISCO BAY AREA
Marin
Solano
Calaveras
Contra Costa
San Joaquin
Tuolumne
Mammoth Lake
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Inyo
Santa Cruz
San Benito
Fresno
SAN JOAQUIN VALLEY
Owens Valley
Coso Junction
Trona
NORTH CENTRAL COAST
Monterey
Kings
Tulare
San Luis Obispo
Kern
Indian Wells Valley
San Bernardino
SOUTH CENTRAL COAST
Santa Barbara
Ventura
Los Angeles
SOUTHEAST DESERT
Riverside
Coachella Valley
Orange
SOUTH COAST
Imperial
San Diego
SAN DIEGO COUNTY
Unclassified
Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 12

National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM10)*

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		X	
Alpine County		X		SAN FRANCISCO BAY AREA AIR BASIN		X	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			X
- Owens Valley Planning Area	X			SOUTH CENTRAL COAST AIR BASIN		X	
- Coso Junction			X	SOUTH COAST AIR BASIN			X
- Remainder of County		X		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area			X	- Indian Wells Valley			X
- Mono Lake Basin	X			- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X		- Remainder of County		X	
LAKE COUNTY AIR BASIN		X		Imperial County			
LAKE TAHOE AIR BASIN		X		- Imperial Valley Planning Area	X		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		X		Los Angeles County (portion)		X	
Remainder of Air Basin		X		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		X		- Coachella Valley (3)	X		
NORTH COAST AIR BASIN		X		- Non-AQMA portion		X	
NORTHEAST PLATEAU AIR BASIN		X		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	X		
Butte County		X		- Remainder of County	X		
Colusa County		X					
Glenn County		X					
Placer County (portion) (2)		X					
Sacramento County (1)			X				
Shasta County		X					
Solano County (portion)		X					
Sutter County		X					
Tehama County		X					
Yolo County		X					
Yuba County		X					

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.
(1) Air quality in Sacramento County meets the national PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.
(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.
(3) Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13


Area Designations for National Ambient Air Quality Standards PM2.5
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTH COAST
NORTHEAST PLATEAU
Humboldt
Trinity
Shasta
Lassen
Tehama
SACRAMENTO VALLEY
Plumas
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Mendocino
Nevada
LAKE COUNTY
Colusa
Yuba
Placer
Lake
Sutter
LAKE TAHOE
El Dorado
Yolo
Sonoma
Napa
Sacramento
Alpine
Amador
Solano
Calaveras
SAN FRANCISCO BAY AREA
Marin
Tuolumne
GREAT BASIN VALLEYS
Contra Costa
San Joaquin
Mono
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Madera
Santa Cruz
Fresno
NORTH CENTRAL COAST
San Benito
SAN JOAQUIN VALLEY
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
San Bernardino
SOUTHEAST DESERT
Ventura
Los Angeles
Orange
Riverside
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 13

National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN (2)	X	
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
MOUNTAIN COUNTIES AIR BASIN			SOUTH CENTRAL COAST AIR BASIN		X
Plumas County			SOUTH COAST AIR BASIN (3)	X	
- Portola Valley Portion of Plumas	X		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		X	Imperial County (portion) (4)	X	
Remainder of Air Basin		X	Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X			
NORTH COAST AIR BASIN		X			
NORTHEAST PLATEAU AIR BASIN		X			
SACRAMENTO VALLEY AIR BASIN					
Sacramento Metro Area (1)	X				
Sutter County		X			
Yuba County (portion)		X			
Remainder of Air Basin		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 annual standards.

(1) For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(2) Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(3) Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

(4) That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

FIGURE 14

Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 14

National Ambient Air Quality Standards
Area Designations for Carbon Monoxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 15


Area Designations for National Ambient Air Quality Standards
NITROGEN DIOXIDE
N
0 50 100 150 200 Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Trinity
Shasta
Lassen
Humboldt
Tehema
Plumas
SACRAMENTO VALLEY
Mendocino
Glenn
Butte
Sierra
Nevada
MOUNTAIN COUNTIES
Colusa
Yuba
Placer
LAKE COUNTY
Lake
Sutter
LAKE TAHOE
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Marin
Calaveras
Contra Costa
San Joaquin
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Tulare
Inyo
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
Santa Barbara
SOUTHEAST DESERT
Los Angeles
San Bernardino
Ventura
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

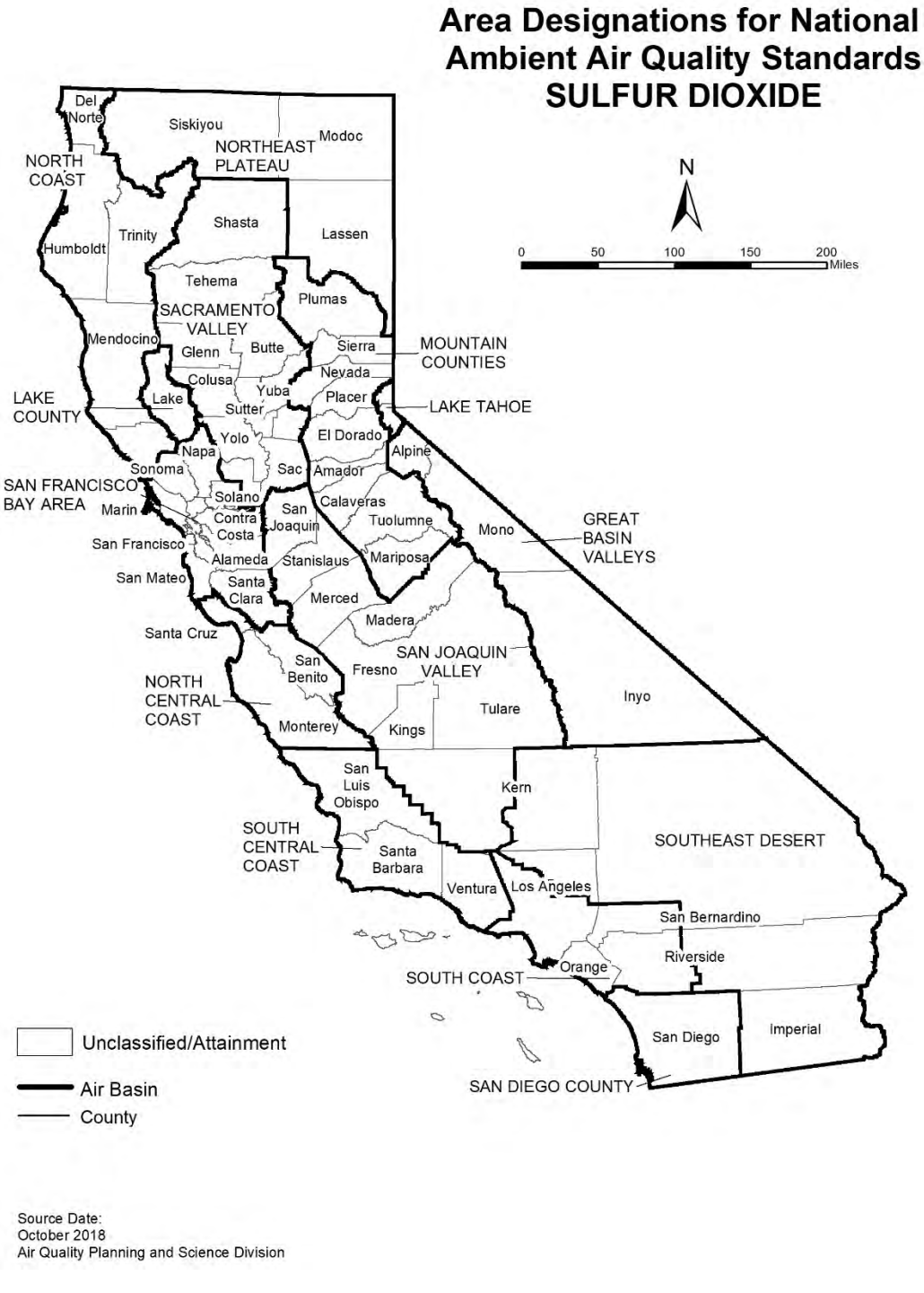
TABLE 15

National Ambient Air Quality Standards
Area Designations for Nitrogen Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN		X
LAKE COUNTY AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE TAHOE AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

FIGURE 16



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 16

National Ambient Air Quality Standards
Area Designations for Sulfur Dioxide*

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		X	San Luis Obispo County		X
LAKE TAHOE AIR BASIN		X	Santa Barbara County		X
MOUNTAIN COUNTIES AIR BASIN		X	Ventura County		X
NORTH CENTRAL COAST AIR BASIN		X	Channel Islands (1)		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		X	Imperial County		X
SAN DIEGO COUNTY		X	Remainder of Air Basin		X
SAN FRANCISCO BAY AREA AIR BASIN		X			
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		X			
Kern County (portion)		X			
Kings County		X			
Madera County		X			
Merced County		X			
San Joaquin County		X			
Stanislaus County		X			
Tulare County		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

(1) South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands.

Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

FIGURE 17

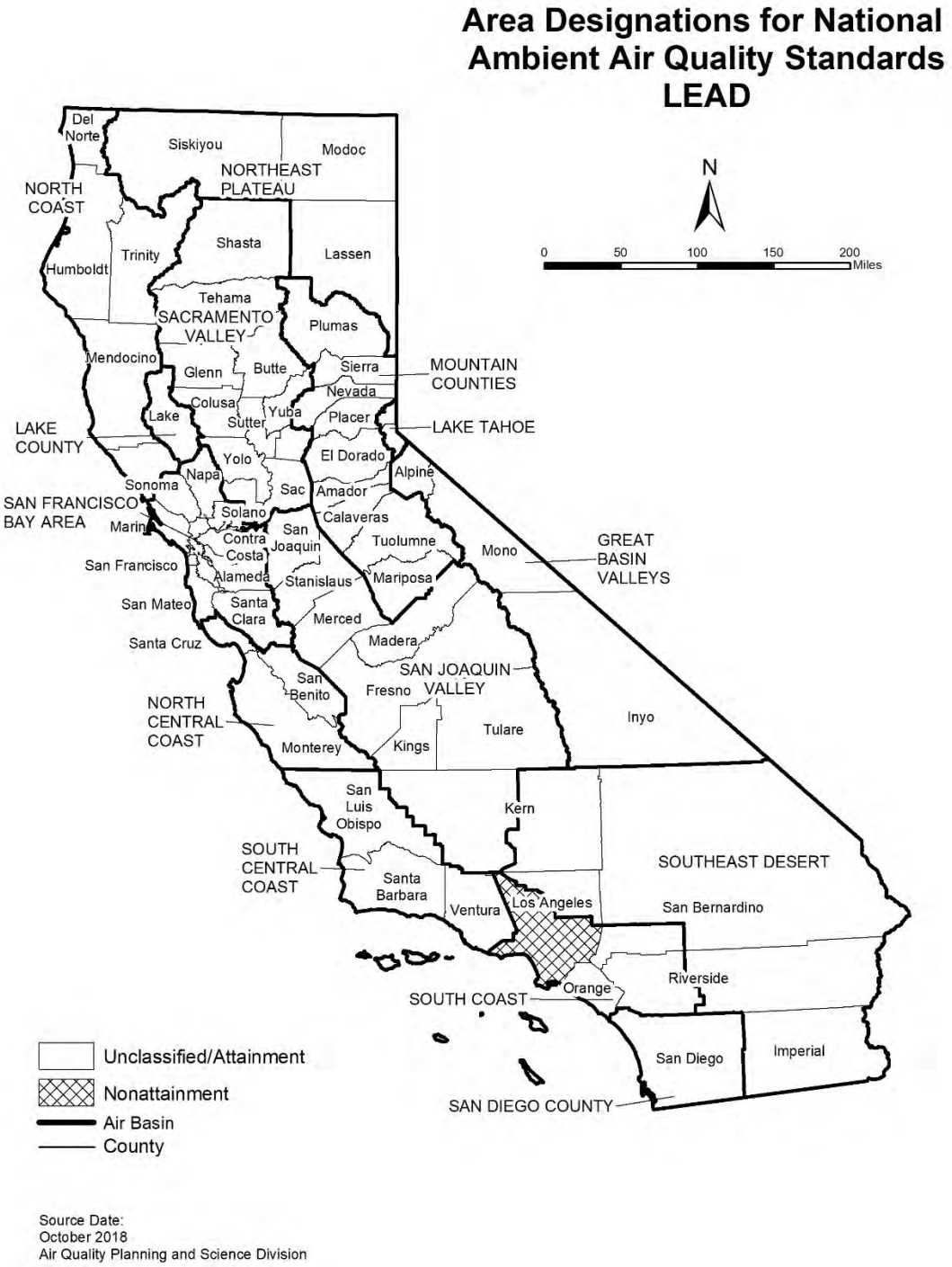

Area Designations for National Ambient Air Quality Standards
LEAD
N
0 50 100 150 200
Miles
Del Norte
Siskiyou
Modoc
NORTHEAST PLATEAU
NORTH COAST
Shasta
Lassen
Trinity
Humboldt
Tehama
SACRAMENTO VALLEY
Plumas
Mendocino
Glenn
Butte
Sierra
MOUNTAIN COUNTIES
Nevada
Colusa
Lake
Sutter
Yuba
Placer
LAKE TAHOE
LAKE COUNTY
Yolo
El Dorado
Napa
Alpine
Sonoma
Sac
Amador
SAN FRANCISCO BAY AREA
Solano
Calaveras
Marin
San Joaquin
Contra Costa
Tuolumne
Mono
GREAT BASIN VALLEYS
San Francisco
Alameda
Stanislaus
Mariposa
San Mateo
Santa Clara
Merced
Santa Cruz
Madera
SAN JOAQUIN VALLEY
San Benito
Fresno
NORTH CENTRAL COAST
Inyo
Tulare
Monterey
Kings
San Luis Obispo
Kern
SOUTH CENTRAL COAST
SOUTHEAST DESERT
Santa Barbara
Ventura
Los Angeles
San Bernardino
Riverside
Orange
SOUTH COAST
San Diego
Imperial
SAN DIEGO COUNTY
Unclassified/Attainment
Nonattainment
Air Basin
County
Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 17

National Ambient Air Quality Standards
Area Designations for Lead (particulate)

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		X	Los Angeles County (portion) (1)	X	
NORTHEAST PLATEAU AIR BASIN		X	Remainder of Air Basin		X
SACRAMENTO VALLEY AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

(1) Portion of County in Air Basin, not including Channel Islands

APPENDIX 3.1:

CALEEMOD CONSTRUCTION (UNMITIGATED) EMISSIONS MODEL OUTPUTS

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The Homestead (Construction - Unmitigated)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	560.29	1000sqft	12.86	560,291.00	0
Unrefrigerated Warehouse-Rail	520.32	1000sqft	11.94	520,317.00	0
Other Asphalt Surfaces	156.03	1000sqft	3.58	156,025.00	0
Other Non-Asphalt Surfaces	67.64	1000sqft	1.55	67,640.00	0
Parking Lot	1,691.00	Space	15.54	676,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 45.47 acres.

Construction Phase - The Construction Schedule was adjusted to meet the 2021 Opening Year.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment -

Demolition -

Grading - Total Acres Graded is based on the Equipment List and the Construction Schedule.

Architectural Coating - Rule 1113

Vehicle Trips - Operations Run Only.

Energy Use - Operations Run Only.

Water And Wastewater - Operations Run Only.

Solid Waste - Operations Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	740.00	350.00
tblConstructionPhase	NumDays	55.00	100.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	LightingElect	1.17	0.00

tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.00	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	187.50	225.00
tblGrading	AcresOfGrading	0.00	45.00
tblGrading	MaterialExported	0.00	33,000.00
tblLandUse	LotAcreage	15.22	15.54
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	526.67	0.00
tblSolidWaste	SolidWasteGenerationRate	489.10	0.00
tblVehicleEF	HHD	1.43	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.28	7.55
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.46	2.9270e-003
tblVehicleEF	HHD	6,485.38	1,409.07
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	26.41	7.34

tblVehicleEF	HHD	2.69	3.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.0300e-004
tblVehicleEF	HHD	0.85	0.58
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.0300e-004
tblVehicleEF	HHD	0.97	0.66
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8000e-004	5.3700e-004

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.35	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	2.39	7.39
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.39	2.7700e-003
tblVehicleEF	HHD	6,867.98	1,402.59
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	27.25	7.10
tblVehicleEF	HHD	2.54	2.88
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	9.7680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
tblVehicleEF	HHD	0.80	0.60
tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.07	0.07

tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
tblVehicleEF	HHD	0.92	0.69
tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.54	0.03
tblVehicleEF	HHD	0.03	3.2330e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.51	7.76
tblVehicleEF	HHD	0.45	0.32
tblVehicleEF	HHD	1.47	2.9120e-003
tblVehicleEF	HHD	5,957.03	1,414.57
tblVehicleEF	HHD	1,461.92	1,340.32
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	25.25	7.65
tblVehicleEF	HHD	2.67	3.02
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05

tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8710e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.9200e-004	5.6500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	1.9200e-004	5.6500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	4.0430e-003	2.4680e-003
tblVehicleEF	LDA	5.4670e-003	0.05
tblVehicleEF	LDA	0.58	0.66
tblVehicleEF	LDA	1.16	2.12

tblVehicleEF	LDA	255.91	265.87
tblVehicleEF	LDA	58.81	54.73
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.5180e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.5630e-003	2.6300e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5900e-003	2.8100e-003
tblVehicleEF	LDA	4.7470e-003	0.05
tblVehicleEF	LDA	0.71	0.81
tblVehicleEF	LDA	1.02	1.87
tblVehicleEF	LDA	278.73	289.14
tblVehicleEF	LDA	58.81	54.24

tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.7930e-003	2.8600e-003
tblVehicleEF	LDA	6.0500e-004	5.3700e-004
tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	3.8980e-003	2.3810e-003
tblVehicleEF	LDA	5.6140e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	249.57	259.47
tblVehicleEF	LDA	58.81	54.82
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003

tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.8140e-003	9.1880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4990e-003	2.5670e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.26
tblVehicleEF	LDT1	0.01	8.0140e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.46	1.62
tblVehicleEF	LDT1	3.40	2.43
tblVehicleEF	LDT1	315.98	317.00
tblVehicleEF	LDT1	72.28	66.64
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003

tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	3.1780e-003	3.1370e-003
tblVehicleEF	LDT1	7.8300e-004	6.5900e-004
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.01	9.0560e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.96
tblVehicleEF	LDT1	2.99	2.15
tblVehicleEF	LDT1	343.19	341.79
tblVehicleEF	LDT1	72.28	66.01
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.41	0.44

tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.38
tblVehicleEF	LDT1	3.4550e-003	3.3820e-003
tblVehicleEF	LDT1	7.7500e-004	6.5300e-004
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.42
tblVehicleEF	LDT1	0.01	7.7080e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.51
tblVehicleEF	LDT1	3.46	2.48
tblVehicleEF	LDT1	307.88	309.49
tblVehicleEF	LDT1	72.28	66.77
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.0960e-003	3.0630e-003
tblVehicleEF	LDT1	7.8400e-004	6.6100e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.2470e-003
tblVehicleEF	LDT2	7.2840e-003	0.07
tblVehicleEF	LDT2	0.76	0.98
tblVehicleEF	LDT2	1.53	2.73
tblVehicleEF	LDT2	355.02	338.79
tblVehicleEF	LDT2	81.24	71.51
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.44

tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.5560e-003	3.3520e-003
tblVehicleEF	LDT2	8.3800e-004	7.0800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.8280e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.20
tblVehicleEF	LDT2	1.35	2.42
tblVehicleEF	LDT2	386.34	362.86
tblVehicleEF	LDT2	81.24	70.86
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5900e-003

tblVehicleEF	LDT2	8.3500e-004	7.0100e-004
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	4.0760e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.91
tblVehicleEF	LDT2	1.57	2.80
tblVehicleEF	LDT2	345.65	331.49
tblVehicleEF	LDT2	81.24	71.65
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.4620e-003	3.2800e-003
tblVehicleEF	LDT2	8.3900e-004	7.0900e-004
tblVehicleEF	LDT2	0.06	0.09

tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.4460e-003	4.8820e-003
tblVehicleEF	LHD1	0.01	5.3310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.21	1.60
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
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tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8940e-003
tblVehicleEF	LHD1	0.01	5.4200e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.97	0.73
tblVehicleEF	LHD1	2.29	0.92
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.97
tblVehicleEF	LHD1	30.36	10.46
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
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tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4700e-004	1.0300e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.27	0.08
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tblVehicleEF	LHD1	0.01	5.3180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17

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tblVehicleEF	LHD1	607.95	639.95
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tblVehicleEF	LHD1	2.18	1.59
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
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tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	3.1720e-003
tblVehicleEF	LHD2	4.5290e-003	3.8570e-003
tblVehicleEF	LHD2	8.3110e-003	9.0280e-003
tblVehicleEF	LHD2	0.12	0.13
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tblVehicleEF	LHD2	1.15	0.56
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.29
tblVehicleEF	LHD2	0.12	0.12
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tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
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tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
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tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1790e-003
tblVehicleEF	LHD2	4.5800e-003	3.8860e-003
tblVehicleEF	LHD2	8.0210e-003	8.7250e-003
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tblVehicleEF	LHD2	0.51	0.53
tblVehicleEF	LHD2	1.10	0.53
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.25
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.62	1.67
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1560e-003
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tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1700e-003
tblVehicleEF	LHD2	4.5170e-003	3.8490e-003
tblVehicleEF	LHD2	8.3600e-003	9.0930e-003
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tblVehicleEF	LHD2	604.20	638.83
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tblVehicleEF	LHD2	1.70	1.75
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.42	0.32
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tblVehicleEF	MCY	19.52	19.61
tblVehicleEF	MCY	9.67	8.55
tblVehicleEF	MCY	165.74	208.30
tblVehicleEF	MCY	46.23	60.73
tblVehicleEF	MCY	1.13	1.13
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tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.15	2.16
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0380e-003	2.0610e-003
tblVehicleEF	MCY	6.8100e-004	6.0100e-004
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90

tblVehicleEF	MCY	2.65	2.65
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	1.99
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	20.27
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	165.74	209.26
tblVehicleEF	MCY	46.23	59.19
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0490e-003	2.0710e-003
tblVehicleEF	MCY	6.6500e-004	5.8600e-004
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tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.62	2.63
tblVehicleEF	MCY	0.57	1.86

tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.14
tblVehicleEF	MCY	9.62	8.49
tblVehicleEF	MCY	165.74	207.52
tblVehicleEF	MCY	46.23	60.64
tblVehicleEF	MCY	1.12	1.12
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tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0310e-003	2.0540e-003
tblVehicleEF	MCY	6.8100e-004	6.0000e-004
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.7580e-003

tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.20
tblVehicleEF	MDV	3.18	3.27
tblVehicleEF	MDV	488.89	421.49
tblVehicleEF	MDV	110.15	88.73
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
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tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.9000e-003	4.1680e-003
tblVehicleEF	MDV	1.1570e-003	8.7800e-004
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	0.01	6.5120e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.46

tblVehicleEF	MDV	2.81	2.88
tblVehicleEF	MDV	530.71	447.07
tblVehicleEF	MDV	110.15	87.92
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.4210e-003
tblVehicleEF	MDV	1.1510e-003	8.7000e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	0.01	5.5370e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.12
tblVehicleEF	MDV	3.24	3.34
tblVehicleEF	MDV	476.42	413.84

tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.46
tblVehicleEF	MDV	4.7750e-003	4.0920e-003
tblVehicleEF	MDV	1.1590e-003	8.8000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
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tblVehicleEF	MH	5.98	0.00
tblVehicleEF	MH	1,002.10	941.76
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tblVehicleEF	MH	1.67	4.43

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tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9030e-003
tblVehicleEF	MH	6.8100e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.78	0.34
tblVehicleEF	MH	5.56	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.55	4.18

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	9.9470e-003	8.9030e-003
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tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
tblVehicleEF	MH	6.02	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.65	4.38

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9030e-003
tblVehicleEF	MH	6.8200e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	3.1500e-003
tblVehicleEF	MHD	3.7220e-003	5.9790e-003
tblVehicleEF	MHD	0.06	8.4870e-003
tblVehicleEF	MHD	0.35	0.34
tblVehicleEF	MHD	0.28	0.57
tblVehicleEF	MHD	6.06	1.01
tblVehicleEF	MHD	151.96	74.93

tblVehicleEF	MHD	1,066.63	1,001.03
tblVehicleEF	MHD	55.49	8.18
tblVehicleEF	MHD	0.65	0.69
tblVehicleEF	MHD	0.99	2.37
tblVehicleEF	MHD	1.0680e-003	2.4180e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.0220e-003	2.3130e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.4610e-003	7.1000e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6100e-004	8.1000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.40	0.05

tblVehicleEF	MHD	0.02	2.9880e-003
tblVehicleEF	MHD	3.7740e-003	6.0080e-003
tblVehicleEF	MHD	0.05	8.2030e-003
tblVehicleEF	MHD	0.26	0.28
tblVehicleEF	MHD	0.28	0.57
tblVehicleEF	MHD	5.78	0.96
tblVehicleEF	MHD	160.96	76.44
tblVehicleEF	MHD	1,066.63	1,001.04
tblVehicleEF	MHD	55.49	8.10
tblVehicleEF	MHD	0.67	0.70
tblVehicleEF	MHD	0.93	2.23
tblVehicleEF	MHD	9.0000e-004	2.0410e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	8.6100e-004	1.9530e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	1.5460e-003	7.2500e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.5600e-004	8.0000e-005

tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.39	0.05
tblVehicleEF	MHD	0.02	3.3820e-003
tblVehicleEF	MHD	3.6890e-003	5.9600e-003
tblVehicleEF	MHD	0.06	8.5610e-003
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.27	0.57
tblVehicleEF	MHD	6.14	1.02
tblVehicleEF	MHD	139.53	72.84
tblVehicleEF	MHD	1,066.63	1,001.03
tblVehicleEF	MHD	55.49	8.20
tblVehicleEF	MHD	0.62	0.67
tblVehicleEF	MHD	0.98	2.35
tblVehicleEF	MHD	1.2990e-003	2.9380e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.2430e-003	2.8110e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.3320e-003	5.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02

tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.3440e-003	6.9100e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6300e-004	8.1000e-005
tblVehicleEF	MHD	1.3320e-003	5.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.41	0.05
tblVehicleEF	OBUS	0.01	8.9240e-003
tblVehicleEF	OBUS	8.0950e-003	8.5070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.50
tblVehicleEF	OBUS	0.54	0.93
tblVehicleEF	OBUS	6.17	2.58
tblVehicleEF	OBUS	75.04	73.28
tblVehicleEF	OBUS	1,098.07	1,407.22
tblVehicleEF	OBUS	70.10	20.86
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tblVehicleEF	OBUS	1.12	1.70
tblVehicleEF	OBUS	1.2100e-004	1.7750e-003
tblVehicleEF	OBUS	6.0450e-003	0.04

tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.1600e-004	1.6990e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.39	0.12
tblVehicleEF	OBUS	7.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0600e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
tblVehicleEF	OBUS	0.05	0.11
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tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	8.9470e-003
tblVehicleEF	OBUS	8.2540e-003	8.6370e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.55	0.94
tblVehicleEF	OBUS	5.76	2.41

tblVehicleEF	OBUS	78.48	73.81
tblVehicleEF	OBUS	1,098.07	1,407.25
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tblVehicleEF	OBUS	0.36	0.45
tblVehicleEF	OBUS	1.04	1.59
tblVehicleEF	OBUS	1.0200e-004	1.5000e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	9.8000e-005	1.4350e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	4.0690e-003	4.7330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7890e-003	2.1320e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	7.6100e-004	7.0400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0200e-004	2.0400e-004
tblVehicleEF	OBUS	4.0690e-003	4.7330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7890e-003	2.1320e-003
tblVehicleEF	OBUS	0.05	0.11
tblVehicleEF	OBUS	0.05	0.26

tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9200e-003
tblVehicleEF	OBUS	8.0660e-003	8.4690e-003
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tblVehicleEF	OBUS	0.54	0.92
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tblVehicleEF	OBUS	70.30	72.56
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tblVehicleEF	OBUS	1.4700e-004	2.1560e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.4100e-004	2.0620e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	1.8870e-003	2.3830e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.5400e-004	1.0620e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	6.8300e-004	6.9200e-004
tblVehicleEF	OBUS	0.01	0.01

tblVehicleEF	OBUS	8.1000e-004	2.0700e-004
tblVehicleEF	OBUS	1.8870e-003	2.3830e-003
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tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.5400e-004	1.0620e-003
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tblVehicleEF	SBUS	1,146.29	366.87
tblVehicleEF	SBUS	1,103.40	1,115.27
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tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005

tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
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tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
tblVehicleEF	SBUS	0.03	8.6250e-003
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tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	8.4640e-003	2.3620e-003
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tblVehicleEF	SBUS	4.0830e-003	1.1650e-003
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tblVehicleEF	SBUS	0.01	3.6000e-003
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tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
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tblVehicleEF	SBUS	0.01	3.3710e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.6100e-004	6.1000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.45	26.05
tblVehicleEF	UBUS	15.26	1.50
tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.08
tblVehicleEF	UBUS	4.95	0.32
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	0.52	0.05

tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8100e-003	1.7900e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
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tblVehicleEF	UBUS	1.52	3.35
tblVehicleEF	UBUS	0.08	0.02
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tblVehicleEF	UBUS	1,822.40	1,617.72
tblVehicleEF	UBUS	153.45	17.70
tblVehicleEF	UBUS	4.62	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01

tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	0.53	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.9970e-003	4.8690e-003
tblVehicleEF	UBUS	1.7720e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	2.09	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	26.05
tblVehicleEF	UBUS	15.44	1.49
tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.06
tblVehicleEF	UBUS	4.92	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004

tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.18	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8130e-003	1.7900e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	2.08	3.43
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.29	0.08
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00

tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	129,567,062.50	0.00
tblWater	IndoorWaterUseRate	120,324,000.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	7.3948	63.2809	57.6329	0.2057	19.8582	2.2168	22.0568	10.1558	2.0409	12.1786	0.0000	20,851.1715	20,851.1715	2.2128	0.0000	20,890.8755
2021	61.3800	66.5153	77.5650	0.2480	13.4040	1.9523	15.3563	3.6021	1.8276	5.4297	0.0000	24,985.1036	24,985.1036	2.3072	0.0000	25,042.7840
Maximum	**61.3800**	**66.5153**	**77.5650**	**0.2480**	**19.8582**	**2.2168**	**22.0568**	**10.1558**	**2.0409**	**12.1786**	**0.0000**	**24,985.1036**	**24,985.1036**	**2.3072**	**0.0000**	**25,042.7840**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	7.3948	63.2809	57.6329	0.2057	11.3810	2.2168	12.8222	3.9933	2.0409	6.0161	0.0000	20,851.1715	20,851.1715	2.2128	0.0000	20,890.8755
2021	61.3800	66.5153	77.5650	0.2480	13.4040	1.9523	15.3563	3.6021	1.8276	5.4297	0.0000	24,985.1036	24,985.1036	2.3072	0.0000	25,042.7840
Maximum	**61.3800**	**66.5153**	**77.5650**	**0.2480**	**13.4040**	**2.2168**	**15.3563**	**3.9933**	**2.0409**	**6.0161**	**0.0000**	**24,985.1036**	**24,985.1036**	**2.3072**	**0.0000**	**25,042.7840**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**25.49**	**0.00**	**24.68**	**44.79**	**0.00**	**35.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**24.5565**	**2.8200e-003**	**0.3070**	**2.0000e-005**	**0.0000**	**1.1000e-003**	**1.1000e-003**	**0.0000**	**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**	**0.0000**	**0.6991**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**24.5565**	**2.8200e-003**	**0.3070**	**2.0000e-005**	**0.0000**	**1.1000e-003**	**1.1000e-003**	**0.0000**	**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**	**0.0000**	**0.6991**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2020	3/13/2020	5	50	
2	Site Preparation	Site Preparation	3/14/2020	4/24/2020	5	30	
3	Grading	Grading	4/25/2020	8/7/2020	5	75	
4	Building Construction	Building Construction	8/8/2020	12/10/2021	5	350	
5	Architectural Coating	Architectural Coating	8/1/2021	12/17/2021	5	100	
6	Paving	Paving	10/2/2021	12/17/2021	5	55	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 225

Acres of Paving: 20.67

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,620,912; Non-Residential Outdoor: 540,304; Striped Parking Area: 54,004 (Architectural Coating – sqft)

OffRoad Equipment

The Homestead (Construction - Unmitigated) - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	227.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,125.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	832.00	325.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9868	0.0000	0.9868	0.1494	0.0000	0.1494			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**0.9868**	**1.6587**	**2.6455**	**0.1494**	**1.5419**	**1.6913**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0234	1.0750	0.1326	3.4600e-003	0.0794	3.4300e-003	0.0829	0.0218	3.2800e-003	0.0251		366.7263	366.7263	0.0219		367.2727
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0763	0.0451	0.6048	1.6600e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		165.2392	165.2392	4.2400e-003		165.3451
Total	**0.0997**	**1.1202**	**0.7375**	**5.1200e-003**	**0.2471**	**4.4500e-003**	**0.2515**	**0.0662**	**4.2100e-003**	**0.0705**		**531.9655**	**531.9655**	**0.0261**		**532.6178**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3849	0.0000	0.3849	0.0583	0.0000	0.0583			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**0.3849**	**1.6587**	**2.0436**	**0.0583**	**1.5419**	**1.6001**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0234	1.0750	0.1326	3.4600e-003	0.0794	3.4300e-003	0.0829	0.0218	3.2800e-003	0.0251		366.7263	366.7263	0.0219		367.2727
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0763	0.0451	0.6048	1.6600e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		165.2392	165.2392	4.2400e-003		165.3451
Total	**0.0997**	**1.1202**	**0.7375**	**5.1200e-003**	**0.2471**	**4.4500e-003**	**0.2515**	**0.0662**	**4.2100e-003**	**0.0705**		**531.9655**	**531.9655**	**0.0261**		**532.6178**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**19.6570**	**2.1974**	**21.8544**	**10.1025**	**2.0216**	**12.1241**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0916	0.0542	0.7258	1.9900e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		198.2870	198.2870	5.0800e-003		198.4141
Total	**0.0916**	**0.0542**	**0.7258**	**1.9900e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**198.2870**	**198.2870**	**5.0800e-003**		**198.4141**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**7.6662**	**2.1974**	**9.8636**	**3.9400**	**2.0216**	**5.9616**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0916	0.0542	0.7258	1.9900e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		198.2870	198.2870	5.0800e-003		198.4141
Total	**0.0916**	**0.0542**	**0.7258**	**1.9900e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**198.2870**	**198.2870**	**5.0800e-003**		**198.4141**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2593	0.0000	9.2593	3.6622	0.0000	3.6622			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**9.2593**	**2.1739**	**11.4332**	**3.6622**	**2.0000**	**5.6622**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2829	13.0232	1.6069	0.0419	0.9622	0.0415	1.0037	0.2638	0.0397	0.3035		4,442.7200	4,442.7200	0.2648		4,449.3389
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1018	0.0602	0.8064	2.2100e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		220.3189	220.3189	5.6500e-003		220.4601
Total	**0.3846**	**13.0834**	**2.4133**	**0.0441**	**1.1857**	**0.0428**	**1.2286**	**0.3230**	**0.0410**	**0.3640**		**4,663.0389**	**4,663.0389**	**0.2704**		**4,669.7990**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6111	0.0000	3.6111	1.4283	0.0000	1.4283			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**3.6111**	**2.1739**	**5.7850**	**1.4283**	**2.0000**	**3.4283**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2829	13.0232	1.6069	0.0419	0.9622	0.0415	1.0037	0.2638	0.0397	0.3035		4,442.7200	4,442.7200	0.2648		4,449.3389
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1018	0.0602	0.8064	2.2100e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		220.3189	220.3189	5.6500e-003		220.4601
Total	**0.3846**	**13.0834**	**2.4133**	**0.0441**	**1.1857**	**0.0428**	**1.2286**	**0.3230**	**0.0410**	**0.3640**		**4,663.0389**	**4,663.0389**	**0.2704**		**4,669.7990**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2551	20.6494	17.9678	0.0288		1.1948	1.1948		1.1218	1.1218		2,735.6999	2,735.6999	0.6819		2,752.7481
Total	**2.2551**	**20.6494**	**17.9678**	**0.0288**		**1.1948**	**1.1948**		**1.1218**	**1.1218**		**2,735.6999**	**2,735.6999**	**0.6819**		**2,752.7481**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9059	33.4398	6.1176	0.0849	2.0812	0.1902	2.2714	0.5992	0.1820	0.7812		8,950.2050	8,950.2050	0.6713		8,966.9877
Worker	4.2339	2.5039	33.5475	0.0920	9.2998	0.0563	9.3561	2.4664	0.0519	2.5182		9,165.2666	9,165.2666	0.2349		9,171.1398
Total	**5.1397**	**35.9438**	**39.6651**	**0.1769**	**11.3810**	**0.2465**	**11.6275**	**3.0656**	**0.2338**	**3.2994**		**18,115.4716**	**18,115.4716**	**0.9062**		**18,138.1275**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2551	20.6494	17.9678	0.0288		1.1948	1.1948		1.1218	1.1218	0.0000	2,735.6999	2,735.6999	0.6819		2,752.7481
Total	**2.2551**	**20.6494**	**17.9678**	**0.0288**		**1.1948**	**1.1948**		**1.1218**	**1.1218**	**0.0000**	**2,735.6999**	**2,735.6999**	**0.6819**		**2,752.7481**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9059	33.4398	6.1176	0.0849	2.0812	0.1902	2.2714	0.5992	0.1820	0.7812		8,950.2050	8,950.2050	0.6713		8,966.9877
Worker	4.2339	2.5039	33.5475	0.0920	9.2998	0.0563	9.3561	2.4664	0.0519	2.5182		9,165.2666	9,165.2666	0.2349		9,171.1398
Total	**5.1397**	**35.9438**	**39.6651**	**0.1769**	**11.3810**	**0.2465**	**11.6275**	**3.0656**	**0.2338**	**3.2994**		**18,115.4716**	**18,115.4716**	**0.9062**		**18,138.1275**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**		**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7587	30.0752	5.3659	0.0842	2.0811	0.0572	2.1383	0.5992	0.0547	0.6539		8,880.6582	8,880.6582	0.6353		8,896.5413
Worker	3.9445	2.2471	30.7600	0.0889	9.2998	0.0548	9.3546	2.4664	0.0505	2.5168		8,858.7276	8,858.7276	0.2112		8,864.0083
Total	**4.7032**	**32.3224**	**36.1260**	**0.1731**	**11.3809**	**0.1120**	**11.4929**	**3.0655**	**0.1052**	**3.1707**		**17,739.3858**	**17,739.3858**	**0.8466**		**17,760.5496**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**	**0.0000**	**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.7587	30.0752	5.3659	0.0842	2.0811	0.0572	2.1383	0.5992	0.0547	0.6539		8,880.6582	8,880.6582	0.6353		8,896.5413
Worker	3.9445	2.2471	30.7600	0.0889	9.2998	0.0548	9.3546	2.4664	0.0505	2.5168		8,858.7276	8,858.7276	0.2112		8,864.0083
Total	**4.7032**	**32.3224**	**36.1260**	**0.1731**	**11.3809**	**0.1120**	**11.4929**	**3.0655**	**0.1052**	**3.1707**		**17,739.3858**	**17,739.3858**	**0.8466**		**17,760.5496**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.3377					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**51.6296**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7870	0.4484	6.1372	0.0177	1.8555	0.0109	1.8664	0.4921	0.0101	0.5022		1,767.4865	1,767.4865	0.0421		1,768.5401
Total	**0.7870**	**0.4484**	**6.1372**	**0.0177**	**1.8555**	**0.0109**	**1.8664**	**0.4921**	**0.0101**	**0.5022**		**1,767.4865**	**1,767.4865**	**0.0421**		**1,768.5401**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.3377					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**51.6296**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7870	0.4484	6.1372	0.0177	1.8555	0.0109	1.8664	0.4921	0.0101	0.5022		1,767.4865	1,767.4865	0.0421		1,768.5401
Total	**0.7870**	**0.4484**	**6.1372**	**0.0177**	**1.8555**	**0.0109**	**1.8664**	**0.4921**	**0.0101**	**0.5022**		**1,767.4865**	**1,767.4865**	**0.0421**		**1,768.5401**

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1664**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.7 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
Total	**0.0711**	**0.0405**	**0.5546**	**1.6000e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**159.7126**	**159.7126**	**3.8100e-003**		**159.8078**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1664**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.7 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
Total	**0.0711**	**0.0405**	**0.5546**	**1.6000e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**159.7126**	**159.7126**	**3.8100e-003**		**159.8078**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-No Rail	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-Rail	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Unmitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

The Homestead (Construction - Unmitigated)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	560.29	1000sqft	12.86	560,291.00	0
Unrefrigerated Warehouse-Rail	520.32	1000sqft	11.94	520,317.00	0
Other Asphalt Surfaces	156.03	1000sqft	3.58	156,025.00	0
Other Non-Asphalt Surfaces	67.64	1000sqft	1.55	67,640.00	0
Parking Lot	1,691.00	Space	15.54	676,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 45.47 acres.

Construction Phase - The Construction Schedule was adjusted to meet the 2021 Opening Year.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment -

Demolition -

Grading - Total Acres Graded is based on the Equipment List and the Construction Schedule.

Architectural Coating - Rule 1113

Vehicle Trips - Operations Run Only.

Energy Use - Operations Run Only.

Water And Wastewater - Operations Run Only.

Solid Waste - Operations Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	740.00	350.00
tblConstructionPhase	NumDays	55.00	100.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	LightingElect	1.17	0.00

tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	2.00	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	187.50	225.00
tblGrading	AcresOfGrading	0.00	45.00
tblGrading	MaterialExported	0.00	33,000.00
tblLandUse	LotAcreage	15.22	15.54
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	526.67	0.00
tblSolidWaste	SolidWasteGenerationRate	489.10	0.00
tblVehicleEF	HHD	1.43	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.28	7.55
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tblVehicleEF	HHD	26.41	7.34

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tblVehicleEF	HHD	0.06	0.06
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tblVehicleEF	HHD	0.01	0.05
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
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tblVehicleEF	HHD	8.4000e-005	4.0000e-006
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tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
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tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8000e-004	5.3700e-004

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.35	0.03
tblVehicleEF	HHD	0.03	0.02
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tblVehicleEF	HHD	8.8680e-003	8.8980e-003
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tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
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tblVehicleEF	HHD	9.2000e-005	4.0000e-006
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tblVehicleEF	HHD	1.8400e-004	5.5600e-004
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tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05

tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8710e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
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tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.9200e-004	5.6500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
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tblVehicleEF	LDA	0.04	0.05
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tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDA	0.04	0.06
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tblVehicleEF	LDA	0.03	0.05
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tblVehicleEF	LDA	0.04	0.24
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tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.46	1.62
tblVehicleEF	LDT1	3.40	2.43
tblVehicleEF	LDT1	315.98	317.00
tblVehicleEF	LDT1	72.28	66.64
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003

tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	3.1780e-003	3.1370e-003
tblVehicleEF	LDT1	7.8300e-004	6.5900e-004
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.01	9.0560e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.96
tblVehicleEF	LDT1	2.99	2.15
tblVehicleEF	LDT1	343.19	341.79
tblVehicleEF	LDT1	72.28	66.01
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tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.41	0.44

tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.38
tblVehicleEF	LDT1	3.4550e-003	3.3820e-003
tblVehicleEF	LDT1	7.7500e-004	6.5300e-004
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.42
tblVehicleEF	LDT1	0.01	7.7080e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.51
tblVehicleEF	LDT1	3.46	2.48
tblVehicleEF	LDT1	307.88	309.49
tblVehicleEF	LDT1	72.28	66.77
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.0960e-003	3.0630e-003
tblVehicleEF	LDT1	7.8400e-004	6.6100e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.2470e-003
tblVehicleEF	LDT2	7.2840e-003	0.07
tblVehicleEF	LDT2	0.76	0.98
tblVehicleEF	LDT2	1.53	2.73
tblVehicleEF	LDT2	355.02	338.79
tblVehicleEF	LDT2	81.24	71.51
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.44

tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.5560e-003	3.3520e-003
tblVehicleEF	LDT2	8.3800e-004	7.0800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.8280e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.20
tblVehicleEF	LDT2	1.35	2.42
tblVehicleEF	LDT2	386.34	362.86
tblVehicleEF	LDT2	81.24	70.86
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5900e-003

tblVehicleEF	LDT2	8.3500e-004	7.0100e-004
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	4.0760e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.91
tblVehicleEF	LDT2	1.57	2.80
tblVehicleEF	LDT2	345.65	331.49
tblVehicleEF	LDT2	81.24	71.65
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.4620e-003	3.2800e-003
tblVehicleEF	LDT2	8.3900e-004	7.0900e-004
tblVehicleEF	LDT2	0.06	0.09

tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.4460e-003	4.8820e-003
tblVehicleEF	LHD1	0.01	5.3310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.21	1.60
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8940e-003
tblVehicleEF	LHD1	0.01	5.4200e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.97	0.73
tblVehicleEF	LHD1	2.29	0.92
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.97
tblVehicleEF	LHD1	30.36	10.46
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4700e-004	1.0300e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8810e-003
tblVehicleEF	LHD1	0.01	5.3180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17

tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.18	1.59
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09

tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	3.1720e-003
tblVehicleEF	LHD2	4.5290e-003	3.8570e-003
tblVehicleEF	LHD2	8.3110e-003	9.0280e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.15	0.56
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.29
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.71	1.77
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1790e-003
tblVehicleEF	LHD2	4.5800e-003	3.8860e-003
tblVehicleEF	LHD2	8.0210e-003	8.7250e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.51	0.53
tblVehicleEF	LHD2	1.10	0.53
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.25
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.62	1.67
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1560e-003
tblVehicleEF	LHD2	2.5600e-004	7.2000e-005
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1700e-003
tblVehicleEF	LHD2	4.5170e-003	3.8490e-003
tblVehicleEF	LHD2	8.3600e-003	9.0930e-003
tblVehicleEF	LHD2	0.12	0.13

tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.16	0.56
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.30
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.70	1.75
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05

tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.52	19.61
tblVehicleEF	MCY	9.67	8.55
tblVehicleEF	MCY	165.74	208.30
tblVehicleEF	MCY	46.23	60.73
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.15	2.16
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0380e-003	2.0610e-003
tblVehicleEF	MCY	6.8100e-004	6.0100e-004
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90

tblVehicleEF	MCY	2.65	2.65
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	1.99
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	20.27
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	165.74	209.26
tblVehicleEF	MCY	46.23	59.19
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0490e-003	2.0710e-003
tblVehicleEF	MCY	6.6500e-004	5.8600e-004
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.62	2.63
tblVehicleEF	MCY	0.57	1.86

tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.14
tblVehicleEF	MCY	9.62	8.49
tblVehicleEF	MCY	165.74	207.52
tblVehicleEF	MCY	46.23	60.64
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0310e-003	2.0540e-003
tblVehicleEF	MCY	6.8100e-004	6.0000e-004
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.7580e-003

tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.20
tblVehicleEF	MDV	3.18	3.27
tblVehicleEF	MDV	488.89	421.49
tblVehicleEF	MDV	110.15	88.73
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.9000e-003	4.1680e-003
tblVehicleEF	MDV	1.1570e-003	8.7800e-004
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	0.01	6.5120e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.46

tblVehicleEF	MDV	2.81	2.88
tblVehicleEF	MDV	530.71	447.07
tblVehicleEF	MDV	110.15	87.92
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.4210e-003
tblVehicleEF	MDV	1.1510e-003	8.7000e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	0.01	5.5370e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.12
tblVehicleEF	MDV	3.24	3.34
tblVehicleEF	MDV	476.42	413.84

tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.46
tblVehicleEF	MDV	4.7750e-003	4.0920e-003
tblVehicleEF	MDV	1.1590e-003	8.8000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
tblVehicleEF	MH	5.98	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.67	4.43

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9030e-003
tblVehicleEF	MH	6.8100e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.78	0.34
tblVehicleEF	MH	5.56	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.55	4.18

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	9.9470e-003	8.9030e-003
tblVehicleEF	MH	6.7400e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
tblVehicleEF	MH	6.02	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.65	4.38

tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9030e-003
tblVehicleEF	MH	6.8200e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	3.1500e-003
tblVehicleEF	MHD	3.7220e-003	5.9790e-003
tblVehicleEF	MHD	0.06	8.4870e-003
tblVehicleEF	MHD	0.35	0.34
tblVehicleEF	MHD	0.28	0.57
tblVehicleEF	MHD	6.06	1.01
tblVehicleEF	MHD	151.96	74.93

tblVehicleEF	MHD	1,066.63	1,001.03
tblVehicleEF	MHD	55.49	8.18
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tblVehicleEF	MHD	0.99	2.37
tblVehicleEF	MHD	1.0680e-003	2.4180e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.0220e-003	2.3130e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.4610e-003	7.1000e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6100e-004	8.1000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.40	0.05

tblVehicleEF	MHD	0.02	2.9880e-003
tblVehicleEF	MHD	3.7740e-003	6.0080e-003
tblVehicleEF	MHD	0.05	8.2030e-003
tblVehicleEF	MHD	0.26	0.28
tblVehicleEF	MHD	0.28	0.57
tblVehicleEF	MHD	5.78	0.96
tblVehicleEF	MHD	160.96	76.44
tblVehicleEF	MHD	1,066.63	1,001.04
tblVehicleEF	MHD	55.49	8.10
tblVehicleEF	MHD	0.67	0.70
tblVehicleEF	MHD	0.93	2.23
tblVehicleEF	MHD	9.0000e-004	2.0410e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	8.6100e-004	1.9530e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	1.5460e-003	7.2500e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.5600e-004	8.0000e-005

tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.39	0.05
tblVehicleEF	MHD	0.02	3.3820e-003
tblVehicleEF	MHD	3.6890e-003	5.9600e-003
tblVehicleEF	MHD	0.06	8.5610e-003
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.27	0.57
tblVehicleEF	MHD	6.14	1.02
tblVehicleEF	MHD	139.53	72.84
tblVehicleEF	MHD	1,066.63	1,001.03
tblVehicleEF	MHD	55.49	8.20
tblVehicleEF	MHD	0.62	0.67
tblVehicleEF	MHD	0.98	2.35
tblVehicleEF	MHD	1.2990e-003	2.9380e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.2430e-003	2.8110e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.3320e-003	5.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02

tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.3440e-003	6.9100e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6300e-004	8.1000e-005
tblVehicleEF	MHD	1.3320e-003	5.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.41	0.05
tblVehicleEF	OBUS	0.01	8.9240e-003
tblVehicleEF	OBUS	8.0950e-003	8.5070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.50
tblVehicleEF	OBUS	0.54	0.93
tblVehicleEF	OBUS	6.17	2.58
tblVehicleEF	OBUS	75.04	73.28
tblVehicleEF	OBUS	1,098.07	1,407.22
tblVehicleEF	OBUS	70.10	20.86
tblVehicleEF	OBUS	0.35	0.44
tblVehicleEF	OBUS	1.12	1.70
tblVehicleEF	OBUS	1.2100e-004	1.7750e-003
tblVehicleEF	OBUS	6.0450e-003	0.04

tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.1600e-004	1.6990e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.39	0.12
tblVehicleEF	OBUS	7.2800e-004	6.9900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0600e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
tblVehicleEF	OBUS	0.05	0.11
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	8.9470e-003
tblVehicleEF	OBUS	8.2540e-003	8.6370e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.55	0.94
tblVehicleEF	OBUS	5.76	2.41

tblVehicleEF	OBUS	78.48	73.81
tblVehicleEF	OBUS	1,098.07	1,407.25
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tblVehicleEF	OBUS	0.36	0.45
tblVehicleEF	OBUS	1.04	1.59
tblVehicleEF	OBUS	1.0200e-004	1.5000e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	9.8000e-005	1.4350e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	4.0690e-003	4.7330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7890e-003	2.1320e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	7.6100e-004	7.0400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0200e-004	2.0400e-004
tblVehicleEF	OBUS	4.0690e-003	4.7330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7890e-003	2.1320e-003
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tblVehicleEF	OBUS	0.05	0.26

tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9200e-003
tblVehicleEF	OBUS	8.0660e-003	8.4690e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.53
tblVehicleEF	OBUS	0.54	0.92
tblVehicleEF	OBUS	6.22	2.60
tblVehicleEF	OBUS	70.30	72.56
tblVehicleEF	OBUS	1,098.07	1,407.21
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tblVehicleEF	OBUS	0.34	0.44
tblVehicleEF	OBUS	1.11	1.68
tblVehicleEF	OBUS	1.4700e-004	2.1560e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.4100e-004	2.0620e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	1.8870e-003	2.3830e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.5400e-004	1.0620e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	6.8300e-004	6.9200e-004
tblVehicleEF	OBUS	0.01	0.01

tblVehicleEF	OBUS	8.1000e-004	2.0700e-004
tblVehicleEF	OBUS	1.8870e-003	2.3830e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.5400e-004	1.0620e-003
tblVehicleEF	OBUS	0.05	0.11
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6110e-003
tblVehicleEF	SBUS	0.06	6.9670e-003
tblVehicleEF	SBUS	7.83	3.03
tblVehicleEF	SBUS	0.64	0.53
tblVehicleEF	SBUS	6.66	0.94
tblVehicleEF	SBUS	1,146.29	366.87
tblVehicleEF	SBUS	1,103.40	1,115.27
tblVehicleEF	SBUS	53.92	6.06
tblVehicleEF	SBUS	10.00	3.57
tblVehicleEF	SBUS	4.65	4.82
tblVehicleEF	SBUS	0.01	4.0660e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	3.8900e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005

tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
tblVehicleEF	SBUS	0.03	8.6250e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	2.1770e-003	6.2500e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.5040e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.0000e-005
tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
tblVehicleEF	SBUS	0.03	8.6250e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	2.1770e-003	6.2500e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6860e-003
tblVehicleEF	SBUS	0.05	5.8380e-003
tblVehicleEF	SBUS	7.71	2.99
tblVehicleEF	SBUS	0.65	0.54
tblVehicleEF	SBUS	4.83	0.68
tblVehicleEF	SBUS	1,198.60	377.09
tblVehicleEF	SBUS	1,103.40	1,115.28
tblVehicleEF	SBUS	53.92	5.63
tblVehicleEF	SBUS	10.32	3.66

tblVehicleEF	SBUS	4.37	4.53
tblVehicleEF	SBUS	9.1190e-003	3.4340e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	8.7240e-003	3.2850e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	8.4640e-003	2.3620e-003
tblVehicleEF	SBUS	0.03	9.1440e-003
tblVehicleEF	SBUS	0.93	0.36
tblVehicleEF	SBUS	4.0830e-003	1.1650e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	SBUS	0.01	3.6000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2400e-004	5.6000e-005
tblVehicleEF	SBUS	8.4640e-003	2.3620e-003
tblVehicleEF	SBUS	0.03	9.1440e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	4.0830e-003	1.1650e-003
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.84	0.08

tblVehicleEF	SBUS	0.01	6.6040e-003
tblVehicleEF	SBUS	0.07	7.2110e-003
tblVehicleEF	SBUS	8.00	3.09
tblVehicleEF	SBUS	0.63	0.53
tblVehicleEF	SBUS	7.02	0.98
tblVehicleEF	SBUS	1,074.07	352.76
tblVehicleEF	SBUS	1,103.40	1,115.26
tblVehicleEF	SBUS	53.92	6.14
tblVehicleEF	SBUS	9.56	3.44
tblVehicleEF	SBUS	4.60	4.78
tblVehicleEF	SBUS	0.01	4.9380e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3710e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.6100e-004	6.1000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.45	26.05
tblVehicleEF	UBUS	15.26	1.50
tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.08
tblVehicleEF	UBUS	4.95	0.32
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	0.52	0.05

tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8100e-003	1.7900e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	2.08	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.28	0.08
tblVehicleEF	UBUS	1.52	3.35
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	8.53	26.06
tblVehicleEF	UBUS	13.06	1.28
tblVehicleEF	UBUS	1,822.40	1,617.72
tblVehicleEF	UBUS	153.45	17.70
tblVehicleEF	UBUS	4.62	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01

tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	0.53	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.9970e-003	4.8690e-003
tblVehicleEF	UBUS	1.7720e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	2.09	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	26.05
tblVehicleEF	UBUS	15.44	1.49
tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.06
tblVehicleEF	UBUS	4.92	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004

tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.18	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8130e-003	1.7900e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	2.08	3.43
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.29	0.08
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00

tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	129,567,062.50	0.00
tblWater	IndoorWaterUseRate	120,324,000.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	7.3568	63.3969	52.2684	0.1930	19.8582	2.2173	22.0568	10.1558	2.0415	12.1786	0.0000	19,571.7115	19,571.7115	2.2371	0.0000	19,612.5406
2021	61.3376	66.3498	71.3258	0.2337	13.4040	1.9540	15.3580	3.6021	1.8292	5.4313	0.0000	23,541.2590	23,541.2590	2.3462	0.0000	23,599.9143
Maximum	**61.3376**	**66.3498**	**71.3258**	**0.2337**	**19.8582**	**2.2173**	**22.0568**	**10.1558**	**2.0415**	**12.1786**	**0.0000**	**23,541.2590**	**23,541.2590**	**2.3462**	**0.0000**	**23,599.9143**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	7.3568	63.3969	52.2684	0.1930	11.3810	2.2173	12.8245	3.9933	2.0415	6.0161	0.0000	19,571.7115	19,571.7115	2.2371	0.0000	19,612.5406
2021	61.3376	66.3498	71.3258	0.2337	13.4040	1.9540	15.3580	3.6021	1.8292	5.4313	0.0000	23,541.2590	23,541.2590	2.3462	0.0000	23,599.9142
Maximum	**61.3376**	**66.3498**	**71.3258**	**0.2337**	**13.4040**	**2.2173**	**15.3580**	**3.9933**	**2.0415**	**6.0161**	**0.0000**	**23,541.2590**	**23,541.2590**	**2.3462**	**0.0000**	**23,599.9142**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**25.49**	**0.00**	**24.68**	**44.79**	**0.00**	**34.99**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**24.5565**	**2.8200e-003**	**0.3070**	**2.0000e-005**	**0.0000**	**1.1000e-003**	**1.1000e-003**	**0.0000**	**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**	**0.0000**	**0.6991**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**24.5565**	**2.8200e-003**	**0.3070**	**2.0000e-005**	**0.0000**	**1.1000e-003**	**1.1000e-003**	**0.0000**	**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**	**0.0000**	**0.6991**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2020	3/13/2020	5	50	
2	Site Preparation	Site Preparation	3/14/2020	4/24/2020	5	30	
3	Grading	Grading	4/25/2020	8/7/2020	5	75	
4	Building Construction	Building Construction	8/8/2020	12/10/2021	5	350	
5	Architectural Coating	Architectural Coating	8/1/2021	12/17/2021	5	100	
6	Paving	Paving	10/2/2021	12/17/2021	5	55	

Acres of Grading (Site Preparation Phase): 45

Acres of Grading (Grading Phase): 225

Acres of Paving: 20.67

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,620,912; Non-Residential Outdoor: 540,304; Striped Parking Area: 54,004 (Architectural Coating – sqft)

OffRoad Equipment

The Homestead (Construction - Unmitigated) - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	227.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,125.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	832.00	325.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	166.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9868	0.0000	0.9868	0.1494	0.0000	0.1494			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**0.9868**	**1.6587**	**2.6455**	**0.1494**	**1.5419**	**1.6913**		**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.0844	0.1554	3.3700e-003	0.0794	3.4700e-003	0.0829	0.0218	3.3200e-003	0.0251		357.5513	357.5513	0.0239		358.1493
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0748	0.0467	0.4893	1.4900e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		148.2354	148.2354	3.6800e-003		148.3274
Total	**0.0993**	**1.1311**	**0.6446**	**4.8600e-003**	**0.2471**	**4.4900e-003**	**0.2516**	**0.0662**	**4.2500e-003**	**0.0705**		**505.7866**	**505.7866**	**0.0276**		**506.4767**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3849	0.0000	0.3849	0.0583	0.0000	0.0583			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	**3.3121**	**33.2010**	**21.7532**	**0.0388**	**0.3849**	**1.6587**	**2.0436**	**0.0583**	**1.5419**	**1.6001**	**0.0000**	**3,747.7049**	**3,747.7049**	**1.0580**		**3,774.1536**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0246	1.0844	0.1554	3.3700e-003	0.0794	3.4700e-003	0.0829	0.0218	3.3200e-003	0.0251		357.5513	357.5513	0.0239		358.1493
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0748	0.0467	0.4893	1.4900e-003	0.1677	1.0200e-003	0.1687	0.0445	9.3000e-004	0.0454		148.2354	148.2354	3.6800e-003		148.3274
Total	**0.0993**	**1.1311**	**0.6446**	**4.8600e-003**	**0.2471**	**4.4900e-003**	**0.2516**	**0.0662**	**4.2500e-003**	**0.0705**		**505.7866**	**505.7866**	**0.0276**		**506.4767**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**19.6570**	**2.1974**	**21.8544**	**10.1025**	**2.0216**	**12.1241**		**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0897	0.0560	0.5871	1.7900e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		177.8824	177.8824	4.4200e-003		177.9929
Total	**0.0897**	**0.0560**	**0.5871**	**1.7900e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**177.8824**	**177.8824**	**4.4200e-003**		**177.9929**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.6662	0.0000	7.6662	3.9400	0.0000	3.9400			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	**4.0765**	**42.4173**	**21.5136**	**0.0380**	**7.6662**	**2.1974**	**9.8636**	**3.9400**	**2.0216**	**5.9616**	**0.0000**	**3,685.1016**	**3,685.1016**	**1.1918**		**3,714.8975**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0897	0.0560	0.5871	1.7900e-003	0.2012	1.2200e-003	0.2024	0.0534	1.1200e-003	0.0545		177.8824	177.8824	4.4200e-003		177.9929
Total	**0.0897**	**0.0560**	**0.5871**	**1.7900e-003**	**0.2012**	**1.2200e-003**	**0.2024**	**0.0534**	**1.1200e-003**	**0.0545**		**177.8824**	**177.8824**	**4.4200e-003**		**177.9929**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2593	0.0000	9.2593	3.6622	0.0000	3.6622			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000		6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**9.2593**	**2.1739**	**11.4332**	**3.6622**	**2.0000**	**5.6622**		**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2975	13.1371	1.8820	0.0408	0.9622	0.0421	1.0042	0.2638	0.0403	0.3040		4,331.5680	4,331.5680	0.2898		4,338.8129
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0997	0.0623	0.6524	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		197.6472	197.6472	4.9100e-003		197.7699
Total	**0.3972**	**13.1994**	**2.5343**	**0.0428**	**1.1857**	**0.0434**	**1.2292**	**0.3230**	**0.0415**	**0.3646**		**4,529.2152**	**4,529.2152**	**0.2947**		**4,536.5828**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.6111	0.0000	3.6111	1.4283	0.0000	1.4283			0.0000			0.0000
Off-Road	4.4501	50.1975	31.9583	0.0620		2.1739	2.1739		2.0000	2.0000	0.0000	6,005.8653	6,005.8653	1.9424		6,054.4257
Total	**4.4501**	**50.1975**	**31.9583**	**0.0620**	**3.6111**	**2.1739**	**5.7850**	**1.4283**	**2.0000**	**3.4283**	**0.0000**	**6,005.8653**	**6,005.8653**	**1.9424**		**6,054.4257**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2975	13.1371	1.8820	0.0408	0.9622	0.0421	1.0042	0.2638	0.0403	0.3040		4,331.5680	4,331.5680	0.2898		4,338.8129
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0997	0.0623	0.6524	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2500e-003	0.0605		197.6472	197.6472	4.9100e-003		197.7699
Total	**0.3972**	**13.1994**	**2.5343**	**0.0428**	**1.1857**	**0.0434**	**1.2292**	**0.3230**	**0.0415**	**0.3646**		**4,529.2152**	**4,529.2152**	**0.2947**		**4,536.5828**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2551	20.6494	17.9678	0.0288		1.1948	1.1948		1.1218	1.1218		2,735.6999	2,735.6999	0.6819		2,752.7481
Total	**2.2551**	**20.6494**	**17.9678**	**0.0288**		**1.1948**	**1.1948**		**1.1218**	**1.1218**		**2,735.6999**	**2,735.6999**	**0.6819**		**2,752.7481**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9555	33.2647	7.1630	0.0817	2.0812	0.1925	2.2736	0.5992	0.1841	0.7833		8,613.8898	8,613.8898	0.7470		8,632.5652
Worker	4.1463	2.5903	27.1376	0.0825	9.2998	0.0563	9.3561	2.4664	0.0519	2.5182		8,222.1218	8,222.1218	0.2042		8,227.2273
Total	**5.1018**	**35.8550**	**34.3006**	**0.1642**	**11.3810**	**0.2488**	**11.6297**	**3.0656**	**0.2360**	**3.3015**		**16,836.0116**	**16,836.0116**	**0.9512**		**16,859.7925**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2551	20.6494	17.9678	0.0288		1.1948	1.1948		1.1218	1.1218	0.0000	2,735.6999	2,735.6999	0.6819		2,752.7481
Total	**2.2551**	**20.6494**	**17.9678**	**0.0288**		**1.1948**	**1.1948**		**1.1218**	**1.1218**	**0.0000**	**2,735.6999**	**2,735.6999**	**0.6819**		**2,752.7481**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.9555	33.2647	7.1630	0.0817	2.0812	0.1925	2.2736	0.5992	0.1841	0.7833		8,613.8898	8,613.8898	0.7470		8,632.5652
Worker	4.1463	2.5903	27.1376	0.0825	9.2998	0.0563	9.3561	2.4664	0.0519	2.5182		8,222.1218	8,222.1218	0.2042		8,227.2273
Total	**5.1018**	**35.8550**	**34.3006**	**0.1642**	**11.3810**	**0.2488**	**11.6297**	**3.0656**	**0.2360**	**3.3015**		**16,836.0116**	**16,836.0116**	**0.9512**		**16,859.7925**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625		2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**		**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8058	29.8163	6.3476	0.0811	2.0811	0.0589	2.1400	0.5992	0.0564	0.6555		8,546.6296	8,546.6296	0.7079		8,564.3274
Worker	3.8709	2.3239	24.8294	0.0797	9.2998	0.0548	9.3546	2.4664	0.0505	2.5168		7,947.2104	7,947.2104	0.1836		7,951.8014
Total	**4.6767**	**32.1402**	**31.1770**	**0.1608**	**11.3809**	**0.1137**	**11.4946**	**3.0655**	**0.1068**	**3.1724**		**16,493.8400**	**16,493.8400**	**0.8916**		**16,516.1288**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0228	18.7492	17.6706	0.0288		1.0251	1.0251		0.9625	0.9625	0.0000	2,736.0438	2,736.0438	0.6751		2,752.9212
Total	**2.0228**	**18.7492**	**17.6706**	**0.0288**		**1.0251**	**1.0251**		**0.9625**	**0.9625**	**0.0000**	**2,736.0438**	**2,736.0438**	**0.6751**		**2,752.9212**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.8058	29.8163	6.3476	0.0811	2.0811	0.0589	2.1400	0.5992	0.0564	0.6555		8,546.6296	8,546.6296	0.7079		8,564.3274
Worker	3.8709	2.3239	24.8294	0.0797	9.2998	0.0548	9.3546	2.4664	0.0505	2.5168		7,947.2104	7,947.2104	0.1836		7,951.8014
Total	**4.6767**	**32.1402**	**31.1770**	**0.1608**	**11.3809**	**0.1137**	**11.4946**	**3.0655**	**0.1068**	**3.1724**		**16,493.8400**	**16,493.8400**	**0.8916**		**16,516.1288**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.3377					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255		375.2641	375.2641	0.0258		375.9079
Total	**51.6296**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**		**375.2641**	**375.2641**	**0.0258**		**375.9079**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7723	0.4637	4.9539	0.0159	1.8555	0.0109	1.8664	0.4921	0.0101	0.5022		1,585.6213	1,585.6213	0.0366		1,586.5373
Total	**0.7723**	**0.4637**	**4.9539**	**0.0159**	**1.8555**	**0.0109**	**1.8664**	**0.4921**	**0.0101**	**0.5022**		**1,585.6213**	**1,585.6213**	**0.0366**		**1,586.5373**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	51.3377					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2919	2.0358	2.4234	3.9600e-003		0.1255	0.1255		0.1255	0.1255	0.0000	375.2641	375.2641	0.0258		375.9079
Total	**51.6296**	**2.0358**	**2.4234**	**3.9600e-003**		**0.1255**	**0.1255**		**0.1255**	**0.1255**	**0.0000**	**375.2641**	**375.2641**	**0.0258**		**375.9079**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.7723	0.4637	4.9539	0.0159	1.8555	0.0109	1.8664	0.4921	0.0101	0.5022		1,585.6213	1,585.6213	0.0366		1,586.5373
Total	**0.7723**	**0.4637**	**4.9539**	**0.0159**	**1.8555**	**0.0109**	**1.8664**	**0.4921**	**0.0101**	**0.5022**		**1,585.6213**	**1,585.6213**	**0.0366**		**1,586.5373**

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1664**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**		**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.7 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
Total	**0.0698**	**0.0419**	**0.4476**	**1.4400e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**143.2790**	**143.2790**	**3.3100e-003**		**143.3618**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.9108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.1664**	**12.9191**	**14.6532**	**0.0228**		**0.6777**	**0.6777**		**0.6235**	**0.6235**	**0.0000**	**2,207.2109**	**2,207.2109**	**0.7139**		**2,225.0573**

3.7 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
Total	**0.0698**	**0.0419**	**0.4476**	**1.4400e-003**	**0.1677**	**9.9000e-004**	**0.1687**	**0.0445**	**9.1000e-004**	**0.0454**		**143.2790**	**143.2790**	**3.3100e-003**		**143.3618**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-Rail	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-No Rail	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-Rail	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Unmitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX 3.2:

CALEEMOD OPERATIONS (PASSENGER CARS) EMISSIONS MODEL OUTPUTS

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The Homestead (Operations - Passenger Cars)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	560.29	1000sqft	12.86	560,291.00	0
Unrefrigerated Warehouse-Rail	520.32	1000sqft	11.94	520,317.00	0
Other Asphalt Surfaces	156.03	1000sqft	3.58	156,025.00	0
Other Non-Asphalt Surfaces	67.64	1000sqft	1.55	67,640.00	0
Parking Lot	1,691.00	Space	15.54	676,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

The Homestead (Operations - Passenger Cars) - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Total Project Area is 45.47 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the TIA (Urban Crossroads, Inc.) and Trip Lengths based on information provided in the VMT Memo (Urban Crossroads, Inc.).

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Fleet Mix broken down between LDA. LDT1, LDT2, and MDVs

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	1.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.54	0.61

tblFleetMix	LDA	0.54	0.61
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblLandUse	LotAcreage	15.22	15.54
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

The Homestead (Operations - Passenger Cars) - Riverside-South Coast County, Summer

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleEF	HHD	1.43	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.28	7.55
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.46	2.9270e-003
tblVehicleEF	HHD	6,485.38	1,409.07
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	26.41	7.34
tblVehicleEF	HHD	2.69	3.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006

tblVehicleEF	HHD	2.5800e-003	1.0300e-004
tblVehicleEF	HHD	0.85	0.58
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.0300e-004
tblVehicleEF	HHD	0.97	0.66
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.35	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	2.39	7.39
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.39	2.7700e-003
tblVehicleEF	HHD	6,867.98	1,402.59
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	27.25	7.10
tblVehicleEF	HHD	2.54	2.88

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	9.7680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
tblVehicleEF	HHD	0.80	0.60
tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
tblVehicleEF	HHD	0.92	0.69
tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.05	1.0000e-006

tblVehicleEF	HHD	1.54	0.03
tblVehicleEF	HHD	0.03	3.2330e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.51	7.76
tblVehicleEF	HHD	0.45	0.32
tblVehicleEF	HHD	1.47	2.9120e-003
tblVehicleEF	HHD	5,957.03	1,414.57
tblVehicleEF	HHD	1,461.92	1,340.32
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	25.25	7.65
tblVehicleEF	HHD	2.67	3.02
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8710e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.9200e-004	5.6500e-004

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	1.9200e-004	5.6500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	4.0430e-003	2.4680e-003
tblVehicleEF	LDA	5.4670e-003	0.05
tblVehicleEF	LDA	0.58	0.66
tblVehicleEF	LDA	1.16	2.12
tblVehicleEF	LDA	255.91	265.87
tblVehicleEF	LDA	58.81	54.73
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.5180e-003
tblVehicleEF	LDA	0.04	0.21

tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.5630e-003	2.6300e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5900e-003	2.8100e-003
tblVehicleEF	LDA	4.7470e-003	0.05
tblVehicleEF	LDA	0.71	0.81
tblVehicleEF	LDA	1.02	1.87
tblVehicleEF	LDA	278.73	289.14
tblVehicleEF	LDA	58.81	54.24
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.7930e-003	2.8600e-003

tblVehicleEF	LDA	6.0500e-004	5.3700e-004
tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	3.8980e-003	2.3810e-003
tblVehicleEF	LDA	5.6140e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	249.57	259.47
tblVehicleEF	LDA	58.81	54.82
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.8140e-003	9.1880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4990e-003	2.5670e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.26
tblVehicleEF	LDT1	0.01	8.0140e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.46	1.62
tblVehicleEF	LDT1	3.40	2.43
tblVehicleEF	LDT1	315.98	317.00
tblVehicleEF	LDT1	72.28	66.64
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	3.1780e-003	3.1370e-003
tblVehicleEF	LDT1	7.8300e-004	6.5900e-004
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15

tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.01	9.0560e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.96
tblVehicleEF	LDT1	2.99	2.15
tblVehicleEF	LDT1	343.19	341.79
tblVehicleEF	LDT1	72.28	66.01
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.38
tblVehicleEF	LDT1	3.4550e-003	3.3820e-003
tblVehicleEF	LDT1	7.7500e-004	6.5300e-004
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.20	0.88

tblVehicleEF	LDT1	0.23	0.42
tblVehicleEF	LDT1	0.01	7.7080e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.51
tblVehicleEF	LDT1	3.46	2.48
tblVehicleEF	LDT1	307.88	309.49
tblVehicleEF	LDT1	72.28	66.77
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.0960e-003	3.0630e-003
tblVehicleEF	LDT1	7.8400e-004	6.6100e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.2470e-003

tblVehicleEF	LDT2	7.2840e-003	0.07
tblVehicleEF	LDT2	0.76	0.98
tblVehicleEF	LDT2	1.53	2.73
tblVehicleEF	LDT2	355.02	338.79
tblVehicleEF	LDT2	81.24	71.51
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.5560e-003	3.3520e-003
tblVehicleEF	LDT2	8.3800e-004	7.0800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.8280e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.20

tblVehicleEF	LDT2	1.35	2.42
tblVehicleEF	LDT2	386.34	362.86
tblVehicleEF	LDT2	81.24	70.86
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5900e-003
tblVehicleEF	LDT2	8.3500e-004	7.0100e-004
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	4.0760e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.91
tblVehicleEF	LDT2	1.57	2.80
tblVehicleEF	LDT2	345.65	331.49

tblVehicleEF	LDT2	81.24	71.65
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.4620e-003	3.2800e-003
tblVehicleEF	LDT2	8.3900e-004	7.0900e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.4460e-003	4.8820e-003
tblVehicleEF	LHD1	0.01	5.3310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44

tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.21	1.60
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8940e-003
tblVehicleEF	LHD1	0.01	5.4200e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.97	0.73
tblVehicleEF	LHD1	2.29	0.92
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.97
tblVehicleEF	LHD1	30.36	10.46
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.50

tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4700e-004	1.0300e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8810e-003
tblVehicleEF	LHD1	0.01	5.3180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.18	1.59
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004

tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	3.1720e-003
tblVehicleEF	LHD2	4.5290e-003	3.8570e-003
tblVehicleEF	LHD2	8.3110e-003	9.0280e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.15	0.56
tblVehicleEF	LHD2	14.48	14.86

tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.29
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.71	1.77
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.07	0.07

tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1790e-003
tblVehicleEF	LHD2	4.5800e-003	3.8860e-003
tblVehicleEF	LHD2	8.0210e-003	8.7250e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.51	0.53
tblVehicleEF	LHD2	1.10	0.53
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.25
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.62	1.67
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1560e-003
tblVehicleEF	LHD2	2.5600e-004	7.2000e-005
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1700e-003
tblVehicleEF	LHD2	4.5170e-003	3.8490e-003
tblVehicleEF	LHD2	8.3600e-003	9.0930e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.16	0.56
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.30
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.70	1.75
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003

tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.52	19.61
tblVehicleEF	MCY	9.67	8.55
tblVehicleEF	MCY	165.74	208.30
tblVehicleEF	MCY	46.23	60.73
tblVehicleEF	MCY	1.13	1.13

tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.15	2.16
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0380e-003	2.0610e-003
tblVehicleEF	MCY	6.8100e-004	6.0100e-004
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.65	2.65
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	1.99
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	20.27
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	165.74	209.26
tblVehicleEF	MCY	46.23	59.19
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003

tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0490e-003	2.0710e-003
tblVehicleEF	MCY	6.6500e-004	5.8600e-004
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.62	2.63
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.14
tblVehicleEF	MCY	9.62	8.49
tblVehicleEF	MCY	165.74	207.52
tblVehicleEF	MCY	46.23	60.64
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003

tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0310e-003	2.0540e-003
tblVehicleEF	MCY	6.8100e-004	6.0000e-004
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.7580e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.20
tblVehicleEF	MDV	3.18	3.27
tblVehicleEF	MDV	488.89	421.49
tblVehicleEF	MDV	110.15	88.73
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17

tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.9000e-003	4.1680e-003
tblVehicleEF	MDV	1.1570e-003	8.7800e-004
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	0.01	6.5120e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.46
tblVehicleEF	MDV	2.81	2.88
tblVehicleEF	MDV	530.71	447.07
tblVehicleEF	MDV	110.15	87.92
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.4210e-003
tblVehicleEF	MDV	1.1510e-003	8.7000e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	0.01	5.5370e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.12
tblVehicleEF	MDV	3.24	3.34
tblVehicleEF	MDV	476.42	413.84
tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.46

tblVehicleEF	MDV	4.7750e-003	4.0920e-003
tblVehicleEF	MDV	1.1590e-003	8.8000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
tblVehicleEF	MH	5.98	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.67	4.43
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00

tblVehicleEF	MH	9.9460e-003	8.9030e-003
tblVehicleEF	MH	6.8100e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.78	0.34
tblVehicleEF	MH	5.56	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.55	4.18
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00

tblVehicleEF	MH	9.9470e-003	8.9030e-003
tblVehicleEF	MH	6.7400e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
tblVehicleEF	MH	6.02	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.65	4.38
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00

tblVehicleEF	MH	9.9460e-003	8.9030e-003
tblVehicleEF	MH	6.8200e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MHD	0.02	3.1500e-003
tblVehicleEF	MHD	3.7220e-003	5.9790e-003
tblVehicleEF	MHD	0.06	8.4870e-003
tblVehicleEF	MHD	0.35	0.34
tblVehicleEF	MHD	0.28	0.57
tblVehicleEF	MHD	6.06	1.01
tblVehicleEF	MHD	151.96	74.93
tblVehicleEF	MHD	1,066.63	1,001.03
tblVehicleEF	MHD	55.49	8.18
tblVehicleEF	MHD	0.65	0.69
tblVehicleEF	MHD	0.99	2.37
tblVehicleEF	MHD	1.0680e-003	2.4180e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.0220e-003	2.3130e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.4610e-003	7.1000e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6100e-004	8.1000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	0.02	2.9880e-003
tblVehicleEF	MHD	3.7740e-003	6.0080e-003
tblVehicleEF	MHD	0.05	8.2030e-003
tblVehicleEF	MHD	0.26	0.28
tblVehicleEF	MHD	0.28	0.57
tblVehicleEF	MHD	5.78	0.96
tblVehicleEF	MHD	160.96	76.44
tblVehicleEF	MHD	1,066.63	1,001.04
tblVehicleEF	MHD	55.49	8.10
tblVehicleEF	MHD	0.67	0.70
tblVehicleEF	MHD	0.93	2.23
tblVehicleEF	MHD	9.0000e-004	2.0410e-003

tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	8.6100e-004	1.9530e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	1.5460e-003	7.2500e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.5600e-004	8.0000e-005
tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.39	0.05
tblVehicleEF	MHD	0.02	3.3820e-003
tblVehicleEF	MHD	3.6890e-003	5.9600e-003
tblVehicleEF	MHD	0.06	8.5610e-003
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.27	0.57

tblVehicleEF	MHD	6.14	1.02
tblVehicleEF	MHD	139.53	72.84
tblVehicleEF	MHD	1,066.63	1,001.03
tblVehicleEF	MHD	55.49	8.20
tblVehicleEF	MHD	0.62	0.67
tblVehicleEF	MHD	0.98	2.35
tblVehicleEF	MHD	1.2990e-003	2.9380e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.2430e-003	2.8110e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.3320e-003	5.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.3440e-003	6.9100e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6300e-004	8.1000e-005
tblVehicleEF	MHD	1.3320e-003	5.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.04	0.12

tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.41	0.05
tblVehicleEF	OBUS	0.01	8.9240e-003
tblVehicleEF	OBUS	8.0950e-003	8.5070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.50
tblVehicleEF	OBUS	0.54	0.93
tblVehicleEF	OBUS	6.17	2.58
tblVehicleEF	OBUS	75.04	73.28
tblVehicleEF	OBUS	1,098.07	1,407.22
tblVehicleEF	OBUS	70.10	20.86
tblVehicleEF	OBUS	0.35	0.44
tblVehicleEF	OBUS	1.12	1.70
tblVehicleEF	OBUS	1.2100e-004	1.7750e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.1600e-004	1.6990e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.39	0.12
tblVehicleEF	OBUS	7.2800e-004	6.9900e-004

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0600e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
tblVehicleEF	OBUS	0.05	0.11
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	OBUS	0.01	8.9470e-003
tblVehicleEF	OBUS	8.2540e-003	8.6370e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.48
tblVehicleEF	OBUS	0.55	0.94
tblVehicleEF	OBUS	5.76	2.41
tblVehicleEF	OBUS	78.48	73.81
tblVehicleEF	OBUS	1,098.07	1,407.25
tblVehicleEF	OBUS	70.10	20.57
tblVehicleEF	OBUS	0.36	0.45
tblVehicleEF	OBUS	1.04	1.59
tblVehicleEF	OBUS	1.0200e-004	1.5000e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	9.8000e-005	1.4350e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	4.0690e-003	4.7330e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7890e-003	2.1320e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	7.6100e-004	7.0400e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0200e-004	2.0400e-004
tblVehicleEF	OBUS	4.0690e-003	4.7330e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7890e-003	2.1320e-003
tblVehicleEF	OBUS	0.05	0.11
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9200e-003
tblVehicleEF	OBUS	8.0660e-003	8.4690e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.53
tblVehicleEF	OBUS	0.54	0.92
tblVehicleEF	OBUS	6.22	2.60
tblVehicleEF	OBUS	70.30	72.56
tblVehicleEF	OBUS	1,098.07	1,407.21
tblVehicleEF	OBUS	70.10	20.90
tblVehicleEF	OBUS	0.34	0.44
tblVehicleEF	OBUS	1.11	1.68

tblVehicleEF	OBUS	1.4700e-004	2.1560e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.4100e-004	2.0620e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	1.8870e-003	2.3830e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.5400e-004	1.0620e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	6.8300e-004	6.9200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1000e-004	2.0700e-004
tblVehicleEF	OBUS	1.8870e-003	2.3830e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.5400e-004	1.0620e-003
tblVehicleEF	OBUS	0.05	0.11
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6110e-003
tblVehicleEF	SBUS	0.06	6.9670e-003
tblVehicleEF	SBUS	7.83	3.03

tblVehicleEF	SBUS	0.64	0.53
tblVehicleEF	SBUS	6.66	0.94
tblVehicleEF	SBUS	1,146.29	366.87
tblVehicleEF	SBUS	1,103.40	1,115.27
tblVehicleEF	SBUS	53.92	6.06
tblVehicleEF	SBUS	10.00	3.57
tblVehicleEF	SBUS	4.65	4.82
tblVehicleEF	SBUS	0.01	4.0660e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	3.8900e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
tblVehicleEF	SBUS	0.03	8.6250e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	2.1770e-003	6.2500e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.5040e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.0000e-005
tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
tblVehicleEF	SBUS	0.03	8.6250e-003

tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	2.1770e-003	6.2500e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6860e-003
tblVehicleEF	SBUS	0.05	5.8380e-003
tblVehicleEF	SBUS	7.71	2.99
tblVehicleEF	SBUS	0.65	0.54
tblVehicleEF	SBUS	4.83	0.68
tblVehicleEF	SBUS	1,198.60	377.09
tblVehicleEF	SBUS	1,103.40	1,115.28
tblVehicleEF	SBUS	53.92	5.63
tblVehicleEF	SBUS	10.32	3.66
tblVehicleEF	SBUS	4.37	4.53
tblVehicleEF	SBUS	9.1190e-003	3.4340e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	8.7240e-003	3.2850e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	8.4640e-003	2.3620e-003
tblVehicleEF	SBUS	0.03	9.1440e-003
tblVehicleEF	SBUS	0.93	0.36

tblVehicleEF	SBUS	4.0830e-003	1.1650e-003
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	SBUS	0.01	3.6000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2400e-004	5.6000e-005
tblVehicleEF	SBUS	8.4640e-003	2.3620e-003
tblVehicleEF	SBUS	0.03	9.1440e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	4.0830e-003	1.1650e-003
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6040e-003
tblVehicleEF	SBUS	0.07	7.2110e-003
tblVehicleEF	SBUS	8.00	3.09
tblVehicleEF	SBUS	0.63	0.53
tblVehicleEF	SBUS	7.02	0.98
tblVehicleEF	SBUS	1,074.07	352.76
tblVehicleEF	SBUS	1,103.40	1,115.26
tblVehicleEF	SBUS	53.92	6.14
tblVehicleEF	SBUS	9.56	3.44
tblVehicleEF	SBUS	4.60	4.78
tblVehicleEF	SBUS	0.01	4.9380e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3710e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	6.1000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.45	26.05
tblVehicleEF	UBUS	15.26	1.50

tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.08
tblVehicleEF	UBUS	4.95	0.32
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8100e-003	1.7900e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	2.08	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.28	0.08
tblVehicleEF	UBUS	1.52	3.35
tblVehicleEF	UBUS	0.08	0.02

tblVehicleEF	UBUS	8.53	26.06
tblVehicleEF	UBUS	13.06	1.28
tblVehicleEF	UBUS	1,822.40	1,617.72
tblVehicleEF	UBUS	153.45	17.70
tblVehicleEF	UBUS	4.62	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	0.53	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.9970e-003	4.8690e-003
tblVehicleEF	UBUS	1.7720e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	2.09	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07

tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	26.05
tblVehicleEF	UBUS	15.44	1.49
tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.06
tblVehicleEF	UBUS	4.92	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.18	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8130e-003	1.7900e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	2.08	3.43

tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.29	0.08
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	14.40
tblVehicleTrips	CW_TL	16.60	14.40
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.39
tblVehicleTrips	ST_TR	1.68	1.75
tblVehicleTrips	SU_TR	1.68	1.39
tblVehicleTrips	SU_TR	1.68	1.75
tblVehicleTrips	WD_TR	1.68	1.39
tblVehicleTrips	WD_TR	1.68	1.75

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
Mobile	4.7782	3.7094	63.0288	0.1763	18.4814	0.0884	18.5698	4.8992	0.0815	4.9807		17,818.7436	17,818.7436	0.4188		17,829.2143
Offroad	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**29.9271**	**10.3116**	**66.7804**	**0.1915**	**18.4814**	**0.3299**	**18.8112**	**4.8992**	**0.3062**	**5.2054**		**19,545.7920**	**19,545.7920**	**0.8274**	**9.1300e-003**	**19,569.1976**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
Mobile	4.7782	3.7094	63.0288	0.1763	18.4814	0.0884	18.5698	4.8992	0.0815	4.9807		17,818.7436	17,818.7436	0.4188		17,829.2143
Offroad	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**29.9271**	**10.3116**	**66.7804**	**0.1915**	**18.4814**	**0.3299**	**18.8112**	**4.8992**	**0.3062**	**5.2054**		**19,545.7920**	**19,545.7920**	**0.8274**	**9.1300e-003**	**19,569.1976**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2020	1/6/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 20.67

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

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

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.7782	3.7094	63.0288	0.1763	18.4814	0.0884	18.5698	4.8992	0.0815	4.9807		17,818.7436	17,818.7436	0.4188		17,829.2143
Unmitigated	4.7782	3.7094	63.0288	0.1763	18.4814	0.0884	18.5698	4.8992	0.0815	4.9807		17,818.7436	17,818.7436	0.4188		17,829.2143

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	778.80	778.80	778.80	4,082,182	4,082,182
Unrefrigerated Warehouse-Rail	910.55	910.55	910.55	4,772,764	4,772,764
Total	1,689.36	1,689.36	1,689.36	8,854,945	8,854,945

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No [illegible]	14.40	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-Rail	14.40	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-No Rail	0.614000	0.043000	0.210000	0.133000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.614000	0.043000	0.210000	0.133000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
NaturalGas Unmitigated	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2195.11	0.0237	0.2152	0.1808	1.2900e-003		0.0164	0.0164		0.0164	0.0164		258.2486	258.2486	4.9500e-003	4.7300e-003	259.7832
Unrefrigerated Warehouse-Rail	2038.5	0.0220	0.1999	0.1679	1.2000e-003		0.0152	0.0152		0.0152	0.0152		239.8238	239.8238	4.6000e-003	4.4000e-003	241.2489
Total		**0.0457**	**0.4151**	**0.3487**	**2.4900e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**498.0723**	**498.0723**	**9.5500e-003**	**9.1300e-003**	**501.0321**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.19511	0.0237	0.2152	0.1808	1.2900e-003		0.0164	0.0164		0.0164	0.0164		258.2486	258.2486	4.9500e-003	4.7300e-003	259.7832
Unrefrigerated Warehouse-Rail	2.0385	0.0220	0.1999	0.1679	1.2000e-003		0.0152	0.0152		0.0152	0.0152		239.8238	239.8238	4.6000e-003	4.4000e-003	241.2489
Total		**0.0457**	**0.4151**	**0.3487**	**2.4900e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**498.0723**	**498.0723**	**9.5500e-003**	**9.1300e-003**	**501.0321**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Unmitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	4	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**0.5467**	**6.1843**	**3.0959**	**0.0127**		**0.2088**	**0.2088**		**0.1921**	**0.1921**		**1,228.3205**	**1,228.3205**	**0.3973**		**1,238.2521**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

The Homestead (Operations - Passenger Cars)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	560.29	1000sqft	12.86	560,291.00	0
Unrefrigerated Warehouse-Rail	520.32	1000sqft	11.94	520,317.00	0
Other Asphalt Surfaces	156.03	1000sqft	3.58	156,025.00	0
Other Non-Asphalt Surfaces	67.64	1000sqft	1.55	67,640.00	0
Parking Lot	1,691.00	Space	15.54	676,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

The Homestead (Operations - Passenger Cars) - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Total Project Area is 45.47 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the TIA (Urban Crossroads, Inc.) and Trip Lengths based on information provided in the VMT Memo (Urban Crossroads, Inc.).

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Fleet Mix broken down between LDA. LDT1, LDT2, and MDVs

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	1.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.54	0.61

tblFleetMix	LDA	0.54	0.61
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblLandUse	LotAcreage	15.22	15.54
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

The Homestead (Operations - Passenger Cars) - Riverside-South Coast County, Winter

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleEF	HHD	1.43	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.28	7.55
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.46	2.9270e-003
tblVehicleEF	HHD	6,485.38	1,409.07
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	26.41	7.34
tblVehicleEF	HHD	2.69	3.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006

tblVehicleEF	HHD	2.5800e-003	1.0300e-004
tblVehicleEF	HHD	0.85	0.58
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.0300e-004
tblVehicleEF	HHD	0.97	0.66
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.35	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	2.39	7.39
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.39	2.7700e-003
tblVehicleEF	HHD	6,867.98	1,402.59
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	27.25	7.10
tblVehicleEF	HHD	2.54	2.88

tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	9.7680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
tblVehicleEF	HHD	0.80	0.60
tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
tblVehicleEF	HHD	0.92	0.69
tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.05	1.0000e-006

tblVehicleEF	HHD	1.54	0.03
tblVehicleEF	HHD	0.03	3.2330e-003
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	4.51	7.76
tblVehicleEF	HHD	0.45	0.32
tblVehicleEF	HHD	1.47	2.9120e-003
tblVehicleEF	HHD	5,957.03	1,414.57
tblVehicleEF	HHD	1,461.92	1,340.32
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	25.25	7.65
tblVehicleEF	HHD	2.67	3.02
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8710e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.9200e-004	5.6500e-004

tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
tblVehicleEF	HHD	1.05	0.62
tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	1.9200e-004	5.6500e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	LDA	4.0430e-003	2.4680e-003
tblVehicleEF	LDA	5.4670e-003	0.05
tblVehicleEF	LDA	0.58	0.66
tblVehicleEF	LDA	1.16	2.12
tblVehicleEF	LDA	255.91	265.87
tblVehicleEF	LDA	58.81	54.73
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.5180e-003
tblVehicleEF	LDA	0.04	0.21

tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	2.5630e-003	2.6300e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5900e-003	2.8100e-003
tblVehicleEF	LDA	4.7470e-003	0.05
tblVehicleEF	LDA	0.71	0.81
tblVehicleEF	LDA	1.02	1.87
tblVehicleEF	LDA	278.73	289.14
tblVehicleEF	LDA	58.81	54.24
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.7930e-003	2.8600e-003

tblVehicleEF	LDA	6.0500e-004	5.3700e-004
tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	3.8980e-003	2.3810e-003
tblVehicleEF	LDA	5.6140e-003	0.05
tblVehicleEF	LDA	0.54	0.62
tblVehicleEF	LDA	1.19	2.17
tblVehicleEF	LDA	249.57	259.47
tblVehicleEF	LDA	58.81	54.82
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.8140e-003	9.1880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4990e-003	2.5670e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06

tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.26
tblVehicleEF	LDT1	0.01	8.0140e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.46	1.62
tblVehicleEF	LDT1	3.40	2.43
tblVehicleEF	LDT1	315.98	317.00
tblVehicleEF	LDT1	72.28	66.64
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	3.1780e-003	3.1370e-003
tblVehicleEF	LDT1	7.8300e-004	6.5900e-004
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15

tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.01	9.0560e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.96
tblVehicleEF	LDT1	2.99	2.15
tblVehicleEF	LDT1	343.19	341.79
tblVehicleEF	LDT1	72.28	66.01
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.38
tblVehicleEF	LDT1	3.4550e-003	3.3820e-003
tblVehicleEF	LDT1	7.7500e-004	6.5300e-004
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.20	0.88

tblVehicleEF	LDT1	0.23	0.42
tblVehicleEF	LDT1	0.01	7.7080e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.51
tblVehicleEF	LDT1	3.46	2.48
tblVehicleEF	LDT1	307.88	309.49
tblVehicleEF	LDT1	72.28	66.77
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.0960e-003	3.0630e-003
tblVehicleEF	LDT1	7.8400e-004	6.6100e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.2470e-003

tblVehicleEF	LDT2	7.2840e-003	0.07
tblVehicleEF	LDT2	0.76	0.98
tblVehicleEF	LDT2	1.53	2.73
tblVehicleEF	LDT2	355.02	338.79
tblVehicleEF	LDT2	81.24	71.51
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.5560e-003	3.3520e-003
tblVehicleEF	LDT2	8.3800e-004	7.0800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.8280e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.20

tblVehicleEF	LDT2	1.35	2.42
tblVehicleEF	LDT2	386.34	362.86
tblVehicleEF	LDT2	81.24	70.86
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5900e-003
tblVehicleEF	LDT2	8.3500e-004	7.0100e-004
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	4.0760e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.91
tblVehicleEF	LDT2	1.57	2.80
tblVehicleEF	LDT2	345.65	331.49

tblVehicleEF	LDT2	81.24	71.65
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.4620e-003	3.2800e-003
tblVehicleEF	LDT2	8.3900e-004	7.0900e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.4460e-003	4.8820e-003
tblVehicleEF	LHD1	0.01	5.3310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44

tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.21	1.60
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8940e-003
tblVehicleEF	LHD1	0.01	5.4200e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.97	0.73
tblVehicleEF	LHD1	2.29	0.92
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.97
tblVehicleEF	LHD1	30.36	10.46
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.50

tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4700e-004	1.0300e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8810e-003
tblVehicleEF	LHD1	0.01	5.3180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.18	1.59
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004

tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	3.1720e-003
tblVehicleEF	LHD2	4.5290e-003	3.8570e-003
tblVehicleEF	LHD2	8.3110e-003	9.0280e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.15	0.56
tblVehicleEF	LHD2	14.48	14.86

tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.29
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.71	1.77
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.07	0.07

tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1790e-003
tblVehicleEF	LHD2	4.5800e-003	3.8860e-003
tblVehicleEF	LHD2	8.0210e-003	8.7250e-003
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tblVehicleEF	LHD2	0.51	0.53
tblVehicleEF	LHD2	1.10	0.53
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.25
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.62	1.67
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1560e-003
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tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
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tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1700e-003
tblVehicleEF	LHD2	4.5170e-003	3.8490e-003
tblVehicleEF	LHD2	8.3600e-003	9.0930e-003
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tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.16	0.56
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tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.30
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tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003

tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.52	19.61
tblVehicleEF	MCY	9.67	8.55
tblVehicleEF	MCY	165.74	208.30
tblVehicleEF	MCY	46.23	60.73
tblVehicleEF	MCY	1.13	1.13

tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.15	2.16
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0380e-003	2.0610e-003
tblVehicleEF	MCY	6.8100e-004	6.0100e-004
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.65	2.65
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	1.99
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	20.27
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	165.74	209.26
tblVehicleEF	MCY	46.23	59.19
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003

tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0490e-003	2.0710e-003
tblVehicleEF	MCY	6.6500e-004	5.8600e-004
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.62	2.63
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.14
tblVehicleEF	MCY	9.62	8.49
tblVehicleEF	MCY	165.74	207.52
tblVehicleEF	MCY	46.23	60.64
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003

tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0310e-003	2.0540e-003
tblVehicleEF	MCY	6.8100e-004	6.0000e-004
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.7580e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.20
tblVehicleEF	MDV	3.18	3.27
tblVehicleEF	MDV	488.89	421.49
tblVehicleEF	MDV	110.15	88.73
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17

tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.9000e-003	4.1680e-003
tblVehicleEF	MDV	1.1570e-003	8.7800e-004
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	0.01	6.5120e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.46
tblVehicleEF	MDV	2.81	2.88
tblVehicleEF	MDV	530.71	447.07
tblVehicleEF	MDV	110.15	87.92
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03

tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.4210e-003
tblVehicleEF	MDV	1.1510e-003	8.7000e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	0.01	5.5370e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.12
tblVehicleEF	MDV	3.24	3.34
tblVehicleEF	MDV	476.42	413.84
tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.46

tblVehicleEF	MDV	4.7750e-003	4.0920e-003
tblVehicleEF	MDV	1.1590e-003	8.8000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
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tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
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tblVehicleEF	MH	1.67	4.43
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00

tblVehicleEF	MH	9.9460e-003	8.9030e-003
tblVehicleEF	MH	6.8100e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.78	0.34
tblVehicleEF	MH	5.56	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.55	4.18
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00

tblVehicleEF	MH	9.9470e-003	8.9030e-003
tblVehicleEF	MH	6.7400e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
tblVehicleEF	MH	6.02	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.65	4.38
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00

tblVehicleEF	MH	9.9460e-003	8.9030e-003
tblVehicleEF	MH	6.8200e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
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tblVehicleEF	MHD	3.7220e-003	5.9790e-003
tblVehicleEF	MHD	0.06	8.4870e-003
tblVehicleEF	MHD	0.35	0.34
tblVehicleEF	MHD	0.28	0.57
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tblVehicleEF	MHD	151.96	74.93
tblVehicleEF	MHD	1,066.63	1,001.03
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tblVehicleEF	MHD	0.99	2.37
tblVehicleEF	MHD	1.0680e-003	2.4180e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.0220e-003	2.3130e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.4610e-003	7.1000e-004
tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6100e-004	8.1000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
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tblVehicleEF	MHD	0.02	0.10
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tblVehicleEF	MHD	0.02	2.9880e-003
tblVehicleEF	MHD	3.7740e-003	6.0080e-003
tblVehicleEF	MHD	0.05	8.2030e-003
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tblVehicleEF	MHD	0.28	0.57
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tblVehicleEF	MHD	160.96	76.44
tblVehicleEF	MHD	1,066.63	1,001.04
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tblVehicleEF	MHD	0.93	2.23
tblVehicleEF	MHD	9.0000e-004	2.0410e-003

tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	8.6100e-004	1.9530e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.03	0.11
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tblVehicleEF	MHD	0.36	0.04
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tblVehicleEF	MHD	0.01	9.5290e-003
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tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.39	0.05
tblVehicleEF	MHD	0.02	3.3820e-003
tblVehicleEF	MHD	3.6890e-003	5.9600e-003
tblVehicleEF	MHD	0.06	8.5610e-003
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tblVehicleEF	MHD	0.27	0.57

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tblVehicleEF	MHD	1,066.63	1,001.03
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tblVehicleEF	MHD	0.98	2.35
tblVehicleEF	MHD	1.2990e-003	2.9380e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.2430e-003	2.8110e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.3320e-003	5.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.3440e-003	6.9100e-004
tblVehicleEF	MHD	0.01	9.5290e-003
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tblVehicleEF	MHD	1.3320e-003	5.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.04	0.12

tblVehicleEF	MHD	0.02	0.11
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tblVehicleEF	OBUS	1,098.07	1,407.22
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tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.1600e-004	1.6990e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.39	0.12
tblVehicleEF	OBUS	7.2800e-004	6.9900e-004

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.0900e-004	2.0600e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
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tblVehicleEF	OBUS	0.01	8.9470e-003
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tblVehicleEF	OBUS	0.55	0.94
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tblVehicleEF	OBUS	78.48	73.81
tblVehicleEF	OBUS	1,098.07	1,407.25
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tblVehicleEF	OBUS	1.04	1.59
tblVehicleEF	OBUS	1.0200e-004	1.5000e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	9.8000e-005	1.4350e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	4.0690e-003	4.7330e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7890e-003	2.1320e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	7.6100e-004	7.0400e-004
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tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7890e-003	2.1320e-003
tblVehicleEF	OBUS	0.05	0.11
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tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	8.9200e-003
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tblVehicleEF	OBUS	70.30	72.56
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tblVehicleEF	OBUS	1.4100e-004	2.0620e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
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tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.5400e-004	1.0620e-003
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tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.39	0.13
tblVehicleEF	OBUS	6.8300e-004	6.9200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1000e-004	2.0700e-004
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tblVehicleEF	SBUS	0.01	3.8900e-003
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tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
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tblVehicleEF	SBUS	0.03	8.6250e-003
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tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.05
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tblVehicleEF	SBUS	6.5500e-004	6.0000e-005
tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
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tblVehicleEF	SBUS	2.1770e-003	6.2500e-004
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tblVehicleEF	SBUS	0.03	0.03
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tblVehicleEF	SBUS	8.4640e-003	2.3620e-003
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tblVehicleEF	UBUS	1.51	3.35
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tblVehicleEF	UBUS	15.26	1.50

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tblVehicleEF	UBUS	4.95	0.32
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
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tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
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tblVehicleEF	UBUS	1.8100e-003	1.7900e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
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tblVehicleEF	UBUS	1.28	0.08
tblVehicleEF	UBUS	1.52	3.35
tblVehicleEF	UBUS	0.08	0.02

tblVehicleEF	UBUS	8.53	26.06
tblVehicleEF	UBUS	13.06	1.28
tblVehicleEF	UBUS	1,822.40	1,617.72
tblVehicleEF	UBUS	153.45	17.70
tblVehicleEF	UBUS	4.62	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
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tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
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tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	0.53	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.9970e-003	4.8690e-003
tblVehicleEF	UBUS	1.7720e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	2.09	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07

tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	26.05
tblVehicleEF	UBUS	15.44	1.49
tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.06
tblVehicleEF	UBUS	4.92	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.18	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8130e-003	1.7900e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	2.08	3.43

tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.29	0.08
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	14.40
tblVehicleTrips	CW_TL	16.60	14.40
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.39
tblVehicleTrips	ST_TR	1.68	1.75
tblVehicleTrips	SU_TR	1.68	1.39
tblVehicleTrips	SU_TR	1.68	1.75
tblVehicleTrips	WD_TR	1.68	1.39
tblVehicleTrips	WD_TR	1.68	1.75

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
Mobile	4.2437	3.8401	51.4079	0.1601	18.4814	0.0884	18.5698	4.8992	0.0815	4.9807		16,179.3852	16,179.3852	0.4199		16,189.8826
Offroad	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**29.3926**	**10.4423**	**55.1595**	**0.1753**	**18.4814**	**0.3299**	**18.8112**	**4.8992**	**0.3062**	**5.2054**		**17,906.4335**	**17,906.4335**	**0.8285**	**9.1300e-003**	**17,929.8659**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
Mobile	4.2437	3.8401	51.4079	0.1601	18.4814	0.0884	18.5698	4.8992	0.0815	4.9807		16,179.3852	16,179.3852	0.4199		16,189.8826
Offroad	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**29.3926**	**10.4423**	**55.1595**	**0.1753**	**18.4814**	**0.3299**	**18.8112**	**4.8992**	**0.3062**	**5.2054**		**17,906.4335**	**17,906.4335**	**0.8285**	**9.1300e-003**	**17,929.8659**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2020	1/6/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 20.67

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

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

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.2437	3.8401	51.4079	0.1601	18.4814	0.0884	18.5698	4.8992	0.0815	4.9807		16,179.3852	16,179.3852	0.4199		16,189.8826
Unmitigated	4.2437	3.8401	51.4079	0.1601	18.4814	0.0884	18.5698	4.8992	0.0815	4.9807		16,179.3852	16,179.3852	0.4199		16,189.8826

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	778.80	778.80	778.80	4,082,182	4,082,182
Unrefrigerated Warehouse-Rail	910.55	910.55	910.55	4,772,764	4,772,764
Total	1,689.36	1,689.36	1,689.36	8,854,945	8,854,945

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	14.40	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-Rail	14.40	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-No Rail	0.614000	0.043000	0.210000	0.133000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.614000	0.043000	0.210000	0.133000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
NaturalGas Unmitigated	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2195.11	0.0237	0.2152	0.1808	1.2900e-003		0.0164	0.0164		0.0164	0.0164		258.2486	258.2486	4.9500e-003	4.7300e-003	259.7832
Unrefrigerated Warehouse-Rail	2038.5	0.0220	0.1999	0.1679	1.2000e-003		0.0152	0.0152		0.0152	0.0152		239.8238	239.8238	4.6000e-003	4.4000e-003	241.2489
Total		**0.0457**	**0.4151**	**0.3487**	**2.4900e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**498.0723**	**498.0723**	**9.5500e-003**	**9.1300e-003**	**501.0321**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.19511	0.0237	0.2152	0.1808	1.2900e-003		0.0164	0.0164		0.0164	0.0164		258.2486	258.2486	4.9500e-003	4.7300e-003	259.7832
Unrefrigerated Warehouse-Rail	2.0385	0.0220	0.1999	0.1679	1.2000e-003		0.0152	0.0152		0.0152	0.0152		239.8238	239.8238	4.6000e-003	4.4000e-003	241.2489
Total		**0.0457**	**0.4151**	**0.3487**	**2.4900e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**498.0723**	**498.0723**	**9.5500e-003**	**9.1300e-003**	**501.0321**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Unmitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	4	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**0.5467**	**6.1843**	**3.0959**	**0.0127**		**0.2088**	**0.2088**		**0.1921**	**0.1921**		**1,228.3205**	**1,228.3205**	**0.3973**		**1,238.2521**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX 3.3:

CALEEMOD OPERATIONS (TRUCKS) EMISSIONS MODEL OUTPUTS

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The Homestead (Operations - Trucks)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	560.29	1000sqft	12.86	560,291.00	0
Unrefrigerated Warehouse-Rail	520.32	1000sqft	11.94	520,317.00	0
Other Asphalt Surfaces	156.03	1000sqft	3.58	156,025.00	0
Other Non-Asphalt Surfaces	67.64	1000sqft	1.55	67,640.00	0
Parking Lot	1,691.00	Space	15.54	676,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

The Homestead (Operations - Trucks) - Riverside-South Coast County, Summer

Project Characteristics -

Land Use - Total Project Area is 45.47 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the TIA (Urban Crossroads, Inc.) and Trip Lengths based on information provided in the VMT Memo (Urban Crossroads, Inc.).

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Water Mitigation -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Fleet Mix broken down between truck trips (2-, 3-, and 4+-axle trucks)

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	1.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.63
tblFleetMix	HHD	0.07	0.79
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.00

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.11
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	MHD	0.02	0.11
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblLandUse	LotAcreage	15.22	15.54
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00

The Homestead (Operations - Trucks) - Riverside-South Coast County, Summer

tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleEF	HHD	1.43	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.28	7.55
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.46	2.9270e-003
tblVehicleEF	HHD	6,485.38	1,409.07
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	26.41	7.34
tblVehicleEF	HHD	2.69	3.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.0300e-004

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tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.0300e-004
tblVehicleEF	HHD	0.97	0.66
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.35	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	2.39	7.39
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.39	2.7700e-003
tblVehicleEF	HHD	6,867.98	1,402.59
tblVehicleEF	HHD	1,461.92	1,350.00
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tblVehicleEF	HHD	27.25	7.10
tblVehicleEF	HHD	2.54	2.88
tblVehicleEF	HHD	0.01	0.01

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	9.7680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
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tblVehicleEF	HHD	2.9560e-003	1.1800e-004
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tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
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tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
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tblVehicleEF	HHD	1.54	0.03

tblVehicleEF	HHD	0.03	3.2330e-003
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tblVehicleEF	HHD	4.51	7.76
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tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8710e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
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tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.9200e-004	5.6500e-004
tblVehicleEF	HHD	0.05	1.0000e-006

tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
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tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.08
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.5180e-003
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tblVehicleEF	LDA	0.07	0.23

tblVehicleEF	LDA	2.5630e-003	2.6300e-003
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tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5900e-003	2.8100e-003
tblVehicleEF	LDA	4.7470e-003	0.05
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tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.06	0.20
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tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	3.8980e-003	2.3810e-003
tblVehicleEF	LDA	5.6140e-003	0.05
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tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
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tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.8140e-003	9.1880e-003
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tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4990e-003	2.5670e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11

tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.26
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tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	3.1780e-003	3.1370e-003
tblVehicleEF	LDT1	7.8300e-004	6.5900e-004
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.04	0.05

tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.01	9.0560e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.96
tblVehicleEF	LDT1	2.99	2.15
tblVehicleEF	LDT1	343.19	341.79
tblVehicleEF	LDT1	72.28	66.01
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.38
tblVehicleEF	LDT1	3.4550e-003	3.3820e-003
tblVehicleEF	LDT1	7.7500e-004	6.5300e-004
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tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.42

tblVehicleEF	LDT1	0.01	7.7080e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.51
tblVehicleEF	LDT1	3.46	2.48
tblVehicleEF	LDT1	307.88	309.49
tblVehicleEF	LDT1	72.28	66.77
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.0960e-003	3.0630e-003
tblVehicleEF	LDT1	7.8400e-004	6.6100e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.2470e-003
tblVehicleEF	LDT2	7.2840e-003	0.07

tblVehicleEF	LDT2	0.76	0.98
tblVehicleEF	LDT2	1.53	2.73
tblVehicleEF	LDT2	355.02	338.79
tblVehicleEF	LDT2	81.24	71.51
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.5560e-003	3.3520e-003
tblVehicleEF	LDT2	8.3800e-004	7.0800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.8280e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.20
tblVehicleEF	LDT2	1.35	2.42

tblVehicleEF	LDT2	386.34	362.86
tblVehicleEF	LDT2	81.24	70.86
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5900e-003
tblVehicleEF	LDT2	8.3500e-004	7.0100e-004
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	4.0760e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.91
tblVehicleEF	LDT2	1.57	2.80
tblVehicleEF	LDT2	345.65	331.49
tblVehicleEF	LDT2	81.24	71.65

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.4620e-003	3.2800e-003
tblVehicleEF	LDT2	8.3900e-004	7.0900e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.4460e-003	4.8820e-003
tblVehicleEF	LHD1	0.01	5.3310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95

tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.21	1.60
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.31	0.50

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8940e-003
tblVehicleEF	LHD1	0.01	5.4200e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.97	0.73
tblVehicleEF	LHD1	2.29	0.92
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.97
tblVehicleEF	LHD1	30.36	10.46
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.25	0.07

tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4700e-004	1.0300e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8810e-003
tblVehicleEF	LHD1	0.01	5.3180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.18	1.59
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	3.1720e-003
tblVehicleEF	LHD2	4.5290e-003	3.8570e-003
tblVehicleEF	LHD2	8.3110e-003	9.0280e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.15	0.56
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83

tblVehicleEF	LHD2	23.56	7.29
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.71	1.77
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
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tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25

tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1790e-003
tblVehicleEF	LHD2	4.5800e-003	3.8860e-003
tblVehicleEF	LHD2	8.0210e-003	8.7250e-003
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tblVehicleEF	LHD2	0.51	0.53
tblVehicleEF	LHD2	1.10	0.53
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.25
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.62	1.67
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04

tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1560e-003
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tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1700e-003
tblVehicleEF	LHD2	4.5170e-003	3.8490e-003
tblVehicleEF	LHD2	8.3600e-003	9.0930e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.16	0.56
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.30
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.70	1.75
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.52	19.61
tblVehicleEF	MCY	9.67	8.55
tblVehicleEF	MCY	165.74	208.30
tblVehicleEF	MCY	46.23	60.73
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7750e-003	1.7570e-003

tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.15	2.16
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0380e-003	2.0610e-003
tblVehicleEF	MCY	6.8100e-004	6.0100e-004
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.65	2.65
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	1.99
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	20.27
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	165.74	209.26
tblVehicleEF	MCY	46.23	59.19
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003

tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0490e-003	2.0710e-003
tblVehicleEF	MCY	6.6500e-004	5.8600e-004
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.62	2.63
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.14
tblVehicleEF	MCY	9.62	8.49
tblVehicleEF	MCY	165.74	207.52
tblVehicleEF	MCY	46.23	60.64
tblVehicleEF	MCY	1.12	1.12
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.60	1.59

tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0310e-003	2.0540e-003
tblVehicleEF	MCY	6.8100e-004	6.0000e-004
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.7580e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.20
tblVehicleEF	MDV	3.18	3.27
tblVehicleEF	MDV	488.89	421.49
tblVehicleEF	MDV	110.15	88.73
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.9000e-003	4.1680e-003
tblVehicleEF	MDV	1.1570e-003	8.7800e-004
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	0.01	6.5120e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.46
tblVehicleEF	MDV	2.81	2.88
tblVehicleEF	MDV	530.71	447.07
tblVehicleEF	MDV	110.15	87.92
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.50

tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.4210e-003
tblVehicleEF	MDV	1.1510e-003	8.7000e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	0.01	5.5370e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.12
tblVehicleEF	MDV	3.24	3.34
tblVehicleEF	MDV	476.42	413.84
tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.46
tblVehicleEF	MDV	4.7750e-003	4.0920e-003

tblVehicleEF	MDV	1.1590e-003	8.8000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.28	0.50
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
tblVehicleEF	MH	5.98	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.67	4.43
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9030e-003

tblVehicleEF	MH	6.8100e-004	0.00
tblVehicleEF	MH	1.56	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.54	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.78	0.34
tblVehicleEF	MH	5.56	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.55	4.18
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	9.9800e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	9.9470e-003	8.9030e-003

tblVehicleEF	MH	6.7400e-004	0.00
tblVehicleEF	MH	2.87	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	1.06	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
tblVehicleEF	MH	0.03	3.3370e-003
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	2.70	0.34
tblVehicleEF	MH	6.02	0.00
tblVehicleEF	MH	1,002.10	941.76
tblVehicleEF	MH	57.67	0.00
tblVehicleEF	MH	1.65	4.38
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0860e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.14
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tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9030e-003

tblVehicleEF	MH	6.8200e-004	0.00
tblVehicleEF	MH	1.58	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.39	0.00
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tblVehicleEF	MHD	0.06	8.4870e-003
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tblVehicleEF	MHD	0.28	0.57
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tblVehicleEF	MHD	1,066.63	1,001.03
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tblVehicleEF	MHD	0.99	2.37
tblVehicleEF	MHD	1.0680e-003	2.4180e-003
tblVehicleEF	MHD	6.4490e-003	0.08
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tblVehicleEF	MHD	1.0220e-003	2.3130e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02

tblVehicleEF	MHD	8.5800e-004	3.5500e-004
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tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.37	0.05
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tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6100e-004	8.1000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.5800e-004	3.5500e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.10
tblVehicleEF	MHD	0.40	0.05
tblVehicleEF	MHD	0.02	2.9880e-003
tblVehicleEF	MHD	3.7740e-003	6.0080e-003
tblVehicleEF	MHD	0.05	8.2030e-003
tblVehicleEF	MHD	0.26	0.28
tblVehicleEF	MHD	0.28	0.57
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tblVehicleEF	MHD	160.96	76.44
tblVehicleEF	MHD	1,066.63	1,001.04
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tblVehicleEF	MHD	0.67	0.70
tblVehicleEF	MHD	0.93	2.23
tblVehicleEF	MHD	9.0000e-004	2.0410e-003
tblVehicleEF	MHD	6.4490e-003	0.08

tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	8.6100e-004	1.9530e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
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tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.36	0.04
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tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.5600e-004	8.0000e-005
tblVehicleEF	MHD	3.3760e-003	1.3770e-003
tblVehicleEF	MHD	0.06	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	1.6840e-003	7.0100e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.39	0.05
tblVehicleEF	MHD	0.02	3.3820e-003
tblVehicleEF	MHD	3.6890e-003	5.9600e-003
tblVehicleEF	MHD	0.06	8.5610e-003
tblVehicleEF	MHD	0.49	0.43
tblVehicleEF	MHD	0.27	0.57
tblVehicleEF	MHD	6.14	1.02

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tblVehicleEF	MHD	1.2990e-003	2.9380e-003
tblVehicleEF	MHD	6.4490e-003	0.08
tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	1.2430e-003	2.8110e-003
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tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	1.3320e-003	5.6300e-004
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.03	0.11
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.37	0.05
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tblVehicleEF	MHD	1.3320e-003	5.6300e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
tblVehicleEF	MHD	0.04	0.12
tblVehicleEF	MHD	0.02	0.11

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tblVehicleEF	OBUS	8.0950e-003	8.5070e-003
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tblVehicleEF	OBUS	1.2100e-004	1.7750e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.1600e-004	1.6990e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.3000e-004	1.1120e-003
tblVehicleEF	OBUS	0.04	0.09
tblVehicleEF	OBUS	0.05	0.26
tblVehicleEF	OBUS	0.39	0.12
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tblVehicleEF	OBUS	0.01	0.01

tblVehicleEF	OBUS	8.0900e-004	2.0600e-004
tblVehicleEF	OBUS	2.1800e-003	2.5990e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	OBUS	1,098.07	1,407.25
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tblVehicleEF	OBUS	1.0200e-004	1.5000e-003
tblVehicleEF	OBUS	6.0450e-003	0.04
tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	9.8000e-005	1.4350e-003
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tblVehicleEF	OBUS	0.05	0.26
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tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
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tblVehicleEF	SBUS	6.2400e-004	5.6000e-005
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tblVehicleEF	SBUS	4.0830e-003	1.1650e-003
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tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6040e-003
tblVehicleEF	SBUS	0.07	7.2110e-003
tblVehicleEF	SBUS	8.00	3.09
tblVehicleEF	SBUS	0.63	0.53
tblVehicleEF	SBUS	7.02	0.98
tblVehicleEF	SBUS	1,074.07	352.76
tblVehicleEF	SBUS	1,103.40	1,115.26
tblVehicleEF	SBUS	53.92	6.14
tblVehicleEF	SBUS	9.56	3.44
tblVehicleEF	SBUS	4.60	4.78
tblVehicleEF	SBUS	0.01	4.9380e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3710e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	6.1000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.45	26.05
tblVehicleEF	UBUS	15.26	1.50
tblVehicleEF	UBUS	1,822.40	1,617.71

tblVehicleEF	UBUS	153.45	18.08
tblVehicleEF	UBUS	4.95	0.32
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8100e-003	1.7900e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	2.08	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.28	0.08
tblVehicleEF	UBUS	1.52	3.35
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	8.53	26.06

tblVehicleEF	UBUS	13.06	1.28
tblVehicleEF	UBUS	1,822.40	1,617.72
tblVehicleEF	UBUS	153.45	17.70
tblVehicleEF	UBUS	4.62	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	0.53	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.9970e-003	4.8690e-003
tblVehicleEF	UBUS	1.7720e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	2.09	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	1.51	3.35

tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	26.05
tblVehicleEF	UBUS	15.44	1.49
tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.06
tblVehicleEF	UBUS	4.92	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.18	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8130e-003	1.7900e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	2.08	3.43
tblVehicleEF	UBUS	0.03	0.05

tblVehicleEF	UBUS	1.29	0.08
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	36.20
tblVehicleTrips	CW_TL	16.60	36.20
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.35
tblVehicleTrips	ST_TR	1.68	0.38
tblVehicleTrips	SU_TR	1.68	0.35
tblVehicleTrips	SU_TR	1.68	0.38
tblVehicleTrips	WD_TR	1.68	0.35
tblVehicleTrips	WD_TR	1.68	0.38

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
Mobile	2.8187	100.0076	18.8192	0.3631	12.6429	1.6634	14.3063	3.5333	1.5913	5.1247		38,530.1957	38,530.1957	0.4636		38,541.7844
Offroad	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**27.9675**	**106.6098**	**22.5708**	**0.3783**	**12.6429**	**1.9048**	**14.5478**	**3.5333**	**1.8161**	**5.3494**		**40,257.2441**	**40,257.2441**	**0.8721**	**9.1300e-003**	**40,281.7677**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
Mobile	2.8187	100.0076	18.8192	0.3631	12.6429	1.6634	14.3063	3.5333	1.5913	5.1247		38,530.1957	38,530.1957	0.4636		38,541.7844
Offroad	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**27.9675**	**106.6098**	**22.5708**	**0.3783**	**12.6429**	**1.9048**	**14.5478**	**3.5333**	**1.8161**	**5.3494**		**40,257.2441**	**40,257.2441**	**0.8721**	**9.1300e-003**	**40,281.7677**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2020	1/6/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 20.67

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

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

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.8187	100.0076	18.8192	0.3631	12.6429	1.6634	14.3063	3.5333	1.5913	5.1247		38,530.1957	38,530.1957	0.4636		38,541.7844
Unmitigated	2.8187	100.0076	18.8192	0.3631	12.6429	1.6634	14.3063	3.5333	1.5913	5.1247		38,530.1957	38,530.1957	0.4636		38,541.7844

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	196.10	196.10	196.10	2,583,995	2,583,995
Unrefrigerated Warehouse-Rail	197.72	197.72	197.72	2,605,323	2,605,323
Total	393.82	393.82	393.82	5,189,318	5,189,318

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	36.20	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-Rail	36.20	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.107000	0.000000	0.107000	0.786000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
NaturalGas Unmitigated	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2195.11	0.0237	0.2152	0.1808	1.2900e-003		0.0164	0.0164		0.0164	0.0164		258.2486	258.2486	4.9500e-003	4.7300e-003	259.7832
Unrefrigerated Warehouse-Rail	2038.5	0.0220	0.1999	0.1679	1.2000e-003		0.0152	0.0152		0.0152	0.0152		239.8238	239.8238	4.6000e-003	4.4000e-003	241.2489
Total		**0.0457**	**0.4151**	**0.3487**	**2.4900e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**498.0723**	**498.0723**	**9.5500e-003**	**9.1300e-003**	**501.0321**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.19511	0.0237	0.2152	0.1808	1.2900e-003		0.0164	0.0164		0.0164	0.0164		258.2486	258.2486	4.9500e-003	4.7300e-003	259.7832
Unrefrigerated Warehouse-Rail	2.0385	0.0220	0.1999	0.1679	1.2000e-003		0.0152	0.0152		0.0152	0.0152		239.8238	239.8238	4.6000e-003	4.4000e-003	241.2489
Total		**0.0457**	**0.4151**	**0.3487**	**2.4900e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**498.0723**	**498.0723**	**9.5500e-003**	**9.1300e-003**	**501.0321**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Unmitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	4	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**0.5467**	**6.1843**	**3.0959**	**0.0127**		**0.2088**	**0.2088**		**0.1921**	**0.1921**		**1,228.3205**	**1,228.3205**	**0.3973**		**1,238.2521**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

The Homestead (Operations - Trucks)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	560.29	1000sqft	12.86	560,291.00	0
Unrefrigerated Warehouse-Rail	520.32	1000sqft	11.94	520,317.00	0
Other Asphalt Surfaces	156.03	1000sqft	3.58	156,025.00	0
Other Non-Asphalt Surfaces	67.64	1000sqft	1.55	67,640.00	0
Parking Lot	1,691.00	Space	15.54	676,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

The Homestead (Operations - Trucks) - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - Total Project Area is 45.47 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Rates based on information provided in the TIA (Urban Crossroads, Inc.) and Trip Lengths based on information provided in the VMT Memo (Urban Crossroads, Inc.).

Energy Use - The project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses due to lighting upgrades.

Water Mitigation -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Fleet Mix broken down between truck trips (2-, 3-, and 4+-axle trucks)

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	1.00
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	2.00	1.40
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.63
tblFleetMix	HHD	0.07	0.79
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDA	0.54	0.00

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.11
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	LHD2	5.1410e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MCY	4.5820e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MH	1.0380e-003	0.00
tblFleetMix	MHD	0.02	0.21
tblFleetMix	MHD	0.02	0.11
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	OBUS	1.3830e-003	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	SBUS	9.4500e-004	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblFleetMix	UBUS	1.1830e-003	0.00
tblLandUse	LotAcreage	15.22	15.54
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00

The Homestead (Operations - Trucks) - Riverside-South Coast County, Winter

tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	4.00
tblVehicleEF	HHD	1.43	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	3.28	7.55
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.46	2.9270e-003
tblVehicleEF	HHD	6,485.38	1,409.07
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	26.41	7.34
tblVehicleEF	HHD	2.69	3.05
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.0300e-004

tblVehicleEF	HHD	0.85	0.58
tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	8.4000e-005	4.0000e-006
tblVehicleEF	HHD	2.5800e-003	1.0300e-004
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tblVehicleEF	HHD	4.8000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8000e-004	5.3700e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.35	0.03
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	0.10	0.00
tblVehicleEF	HHD	2.39	7.39
tblVehicleEF	HHD	0.46	0.36
tblVehicleEF	HHD	1.39	2.7700e-003
tblVehicleEF	HHD	6,867.98	1,402.59
tblVehicleEF	HHD	1,461.92	1,350.00
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	27.25	7.10
tblVehicleEF	HHD	2.54	2.88
tblVehicleEF	HHD	0.01	0.01

tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.01	9.7680e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8980e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
tblVehicleEF	HHD	0.80	0.60
tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	1.6300e-004	8.0000e-006
tblVehicleEF	HHD	2.9560e-003	1.1800e-004
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tblVehicleEF	HHD	9.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.11	0.09
tblVehicleEF	HHD	1.8400e-004	5.5600e-004
tblVehicleEF	HHD	0.05	1.0000e-006
tblVehicleEF	HHD	1.54	0.03

tblVehicleEF	HHD	0.03	3.2330e-003
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tblVehicleEF	HHD	4.51	7.76
tblVehicleEF	HHD	0.45	0.32
tblVehicleEF	HHD	1.47	2.9120e-003
tblVehicleEF	HHD	5,957.03	1,414.57
tblVehicleEF	HHD	1,461.92	1,340.32
tblVehicleEF	HHD	4.62	0.03
tblVehicleEF	HHD	25.25	7.65
tblVehicleEF	HHD	2.67	3.02
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.8000e-005	0.00
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8680e-003	8.8710e-003
tblVehicleEF	HHD	0.01	0.05
tblVehicleEF	HHD	3.5000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
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tblVehicleEF	HHD	0.91	0.54
tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.07	0.07
tblVehicleEF	HHD	1.9200e-004	5.6500e-004
tblVehicleEF	HHD	0.05	1.0000e-006

tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	7.1000e-005	0.00
tblVehicleEF	HHD	6.7000e-005	4.0000e-006
tblVehicleEF	HHD	2.7490e-003	1.2100e-004
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tblVehicleEF	HHD	4.1000e-005	2.0000e-006
tblVehicleEF	HHD	0.11	0.08
tblVehicleEF	HHD	1.9200e-004	5.6500e-004
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	9.5180e-003
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.23

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tblVehicleEF	LDA	6.0800e-004	5.4200e-004
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tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.08	0.25
tblVehicleEF	LDA	4.5900e-003	2.8100e-003
tblVehicleEF	LDA	4.7470e-003	0.05
tblVehicleEF	LDA	0.71	0.81
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tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
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tblVehicleEF	LDA	2.0830e-003	1.7640e-003
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tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.06	0.20
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tblVehicleEF	LDA	6.0500e-004	5.3700e-004

tblVehicleEF	LDA	0.10	0.14
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.21
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	3.8980e-003	2.3810e-003
tblVehicleEF	LDA	5.6140e-003	0.05
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tblVehicleEF	LDA	1.19	2.17
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tblVehicleEF	LDA	58.81	54.82
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	1.6140e-003	1.4470e-003
tblVehicleEF	LDA	2.2650e-003	1.9190e-003
tblVehicleEF	LDA	1.4880e-003	1.3330e-003
tblVehicleEF	LDA	2.0830e-003	1.7640e-003
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	9.8140e-003	9.1880e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.23
tblVehicleEF	LDA	2.4990e-003	2.5670e-003
tblVehicleEF	LDA	6.0800e-004	5.4200e-004
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.11	0.11

tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.26
tblVehicleEF	LDT1	0.01	8.0140e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.46	1.62
tblVehicleEF	LDT1	3.40	2.43
tblVehicleEF	LDT1	315.98	317.00
tblVehicleEF	LDT1	72.28	66.64
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	3.1780e-003	3.1370e-003
tblVehicleEF	LDT1	7.8300e-004	6.5900e-004
tblVehicleEF	LDT1	0.21	0.23
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.14	0.15
tblVehicleEF	LDT1	0.04	0.05

tblVehicleEF	LDT1	0.20	0.87
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.01	9.0560e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.76	1.96
tblVehicleEF	LDT1	2.99	2.15
tblVehicleEF	LDT1	343.19	341.79
tblVehicleEF	LDT1	72.28	66.01
tblVehicleEF	LDT1	0.13	0.13
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.21	0.38
tblVehicleEF	LDT1	3.4550e-003	3.3820e-003
tblVehicleEF	LDT1	7.7500e-004	6.5300e-004
tblVehicleEF	LDT1	0.41	0.44
tblVehicleEF	LDT1	0.43	0.34
tblVehicleEF	LDT1	0.27	0.29
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.20	0.88
tblVehicleEF	LDT1	0.23	0.42

tblVehicleEF	LDT1	0.01	7.7080e-003
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.37	1.51
tblVehicleEF	LDT1	3.46	2.48
tblVehicleEF	LDT1	307.88	309.49
tblVehicleEF	LDT1	72.28	66.77
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	2.5300e-003	2.2930e-003
tblVehicleEF	LDT1	3.6970e-003	2.9510e-003
tblVehicleEF	LDT1	2.3290e-003	2.1110e-003
tblVehicleEF	LDT1	3.4000e-003	2.7140e-003
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.0960e-003	3.0630e-003
tblVehicleEF	LDT1	7.8400e-004	6.6100e-004
tblVehicleEF	LDT1	0.18	0.19
tblVehicleEF	LDT1	0.39	0.30
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.23	1.01
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	5.6080e-003	4.2470e-003
tblVehicleEF	LDT2	7.2840e-003	0.07

tblVehicleEF	LDT2	0.76	0.98
tblVehicleEF	LDT2	1.53	2.73
tblVehicleEF	LDT2	355.02	338.79
tblVehicleEF	LDT2	81.24	71.51
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.10	0.33
tblVehicleEF	LDT2	3.5560e-003	3.3520e-003
tblVehicleEF	LDT2	8.3800e-004	7.0800e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	6.3630e-003	4.8280e-003
tblVehicleEF	LDT2	6.3270e-003	0.06
tblVehicleEF	LDT2	0.93	1.20
tblVehicleEF	LDT2	1.35	2.42

tblVehicleEF	LDT2	386.34	362.86
tblVehicleEF	LDT2	81.24	70.86
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.29
tblVehicleEF	LDT2	3.8710e-003	3.5900e-003
tblVehicleEF	LDT2	8.3500e-004	7.0100e-004
tblVehicleEF	LDT2	0.14	0.22
tblVehicleEF	LDT2	0.14	0.17
tblVehicleEF	LDT2	0.10	0.17
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.44
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LDT2	5.3900e-003	4.0760e-003
tblVehicleEF	LDT2	7.4940e-003	0.07
tblVehicleEF	LDT2	0.71	0.91
tblVehicleEF	LDT2	1.57	2.80
tblVehicleEF	LDT2	345.65	331.49
tblVehicleEF	LDT2	81.24	71.65

tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	1.6030e-003	1.4980e-003
tblVehicleEF	LDT2	2.3320e-003	1.9580e-003
tblVehicleEF	LDT2	1.4740e-003	1.3790e-003
tblVehicleEF	LDT2	2.1450e-003	1.8010e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	3.4620e-003	3.2800e-003
tblVehicleEF	LDT2	8.3900e-004	7.0900e-004
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.51
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.4460e-003	4.8820e-003
tblVehicleEF	LHD1	0.01	5.3310e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95

tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.21	1.60
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.31	0.50
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.8710e-003	3.1780e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.9010e-003	1.5570e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.31	0.50

tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8940e-003
tblVehicleEF	LHD1	0.01	5.4200e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.97	0.73
tblVehicleEF	LHD1	2.29	0.92
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.97
tblVehicleEF	LHD1	30.36	10.46
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.08	1.51
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.25	0.07

tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4700e-004	1.0300e-004
tblVehicleEF	LHD1	7.2450e-003	5.9530e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.6380e-003	2.9980e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.50
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.4460e-003	4.8810e-003
tblVehicleEF	LHD1	0.01	5.3180e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.17
tblVehicleEF	LHD1	0.96	0.72
tblVehicleEF	LHD1	2.41	0.96
tblVehicleEF	LHD1	9.26	9.44
tblVehicleEF	LHD1	607.95	639.95
tblVehicleEF	LHD1	30.36	10.54
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.18	1.59
tblVehicleEF	LHD1	9.7200e-004	9.7000e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.7100e-004	2.3300e-004
tblVehicleEF	LHD1	9.3000e-004	9.2800e-004
tblVehicleEF	LHD1	2.5390e-003	2.5010e-003

tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.0100e-004	2.1400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.3000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9620e-003	6.2250e-003
tblVehicleEF	LHD1	3.4900e-004	1.0400e-004
tblVehicleEF	LHD1	3.4570e-003	2.8250e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7350e-003	1.4150e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.33	0.53
tblVehicleEF	LHD1	0.28	0.08
tblVehicleEF	LHD2	3.6660e-003	3.1720e-003
tblVehicleEF	LHD2	4.5290e-003	3.8570e-003
tblVehicleEF	LHD2	8.3110e-003	9.0280e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.15	0.56
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83

tblVehicleEF	LHD2	23.56	7.29
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.71	1.77
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.4980e-003	1.6870e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.7800e-004	8.4200e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25

tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1790e-003
tblVehicleEF	LHD2	4.5800e-003	3.8860e-003
tblVehicleEF	LHD2	8.0210e-003	8.7250e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.51	0.53
tblVehicleEF	LHD2	1.10	0.53
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.25
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.62	1.67
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.11	0.04

tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1560e-003
tblVehicleEF	LHD2	2.5600e-004	7.2000e-005
tblVehicleEF	LHD2	2.8320e-003	3.1830e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.4720e-003	1.6130e-003
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.25
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	LHD2	3.6660e-003	3.1700e-003
tblVehicleEF	LHD2	4.5170e-003	3.8490e-003
tblVehicleEF	LHD2	8.3600e-003	9.0930e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.50	0.53
tblVehicleEF	LHD2	1.16	0.56
tblVehicleEF	LHD2	14.48	14.86
tblVehicleEF	LHD2	604.20	638.83
tblVehicleEF	LHD2	23.56	7.30
tblVehicleEF	LHD2	0.12	0.12
tblVehicleEF	LHD2	1.70	1.75
tblVehicleEF	LHD2	1.3360e-003	1.4390e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8700e-004	1.1400e-004
tblVehicleEF	LHD2	1.2780e-003	1.3770e-003
tblVehicleEF	LHD2	2.6970e-003	2.7110e-003

tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.5600e-004	1.0500e-004
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.06	0.06
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	1.4100e-004	1.4200e-004
tblVehicleEF	LHD2	5.8740e-003	6.1550e-003
tblVehicleEF	LHD2	2.5700e-004	7.2000e-005
tblVehicleEF	LHD2	1.1910e-003	1.3290e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6000e-004	7.0100e-004
tblVehicleEF	LHD2	0.07	0.07
tblVehicleEF	LHD2	0.09	0.27
tblVehicleEF	LHD2	0.12	0.05
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.52	19.61
tblVehicleEF	MCY	9.67	8.55
tblVehicleEF	MCY	165.74	208.30
tblVehicleEF	MCY	46.23	60.73
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	1.7750e-003	1.7570e-003

tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.15	2.16
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0380e-003	2.0610e-003
tblVehicleEF	MCY	6.8100e-004	6.0100e-004
tblVehicleEF	MCY	1.69	1.66
tblVehicleEF	MCY	0.85	0.84
tblVehicleEF	MCY	0.92	0.90
tblVehicleEF	MCY	2.65	2.65
tblVehicleEF	MCY	0.57	1.87
tblVehicleEF	MCY	2.26	1.99
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	20.23	20.27
tblVehicleEF	MCY	9.11	8.00
tblVehicleEF	MCY	165.74	209.26
tblVehicleEF	MCY	46.23	59.19
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003

tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	1.86	1.63
tblVehicleEF	MCY	2.0490e-003	2.0710e-003
tblVehicleEF	MCY	6.6500e-004	5.8600e-004
tblVehicleEF	MCY	3.35	3.28
tblVehicleEF	MCY	1.24	1.23
tblVehicleEF	MCY	2.10	2.05
tblVehicleEF	MCY	2.62	2.63
tblVehicleEF	MCY	0.57	1.86
tblVehicleEF	MCY	2.02	1.77
tblVehicleEF	MCY	0.42	0.32
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.04	19.14
tblVehicleEF	MCY	9.62	8.49
tblVehicleEF	MCY	165.74	207.52
tblVehicleEF	MCY	46.23	60.64
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tblVehicleEF	MCY	1.7750e-003	1.7570e-003
tblVehicleEF	MCY	3.4010e-003	2.8660e-003
tblVehicleEF	MCY	1.6600e-003	1.6440e-003
tblVehicleEF	MCY	3.2060e-003	2.7000e-003
tblVehicleEF	MCY	1.60	1.59

tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.15	2.15
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.08	1.83
tblVehicleEF	MCY	2.0310e-003	2.0540e-003
tblVehicleEF	MCY	6.8100e-004	6.0000e-004
tblVehicleEF	MCY	1.60	1.59
tblVehicleEF	MCY	1.05	1.04
tblVehicleEF	MCY	0.74	0.73
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.65	2.12
tblVehicleEF	MCY	2.27	1.99
tblVehicleEF	MDV	0.01	5.7580e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.42	1.20
tblVehicleEF	MDV	3.18	3.27
tblVehicleEF	MDV	488.89	421.49
tblVehicleEF	MDV	110.15	88.73
tblVehicleEF	MDV	0.17	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11

tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MDV	4.9000e-003	4.1680e-003
tblVehicleEF	MDV	1.1570e-003	8.7800e-004
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.20	0.17
tblVehicleEF	MDV	0.09	0.11
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.27	0.49
tblVehicleEF	MDV	0.01	6.5120e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.73	1.46
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tblVehicleEF	MDV	530.71	447.07
tblVehicleEF	MDV	110.15	87.92
tblVehicleEF	MDV	0.16	0.11
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.50

tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	5.3230e-003	4.4210e-003
tblVehicleEF	MDV	1.1510e-003	8.7000e-004
tblVehicleEF	MDV	0.22	0.26
tblVehicleEF	MDV	0.23	0.20
tblVehicleEF	MDV	0.17	0.21
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.50
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	0.01	5.5370e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.33	1.12
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tblVehicleEF	MDV	476.42	413.84
tblVehicleEF	MDV	110.15	88.88
tblVehicleEF	MDV	0.16	0.12
tblVehicleEF	MDV	1.7110e-003	1.5730e-003
tblVehicleEF	MDV	2.4630e-003	2.0550e-003
tblVehicleEF	MDV	1.5780e-003	1.4510e-003
tblVehicleEF	MDV	2.2660e-003	1.8910e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.57
tblVehicleEF	MDV	0.25	0.46
tblVehicleEF	MDV	4.7750e-003	4.0920e-003

tblVehicleEF	MDV	1.1590e-003	8.8000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.18
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.13	0.57
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tblVehicleEF	MH	0.04	0.14
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tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9030e-003

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tblVehicleEF	MH	0.08	0.00
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tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
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tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.37	0.00
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tblVehicleEF	MH	3.2460e-003	4.0000e-003
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tblVehicleEF	MH	1.58	0.00
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tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.35	0.00
tblVehicleEF	MH	9.9460e-003	8.9030e-003

tblVehicleEF	MH	6.8200e-004	0.00
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tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.53	0.00
tblVehicleEF	MH	0.13	0.08
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tblVehicleEF	MHD	0.03	0.02

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tblVehicleEF	MHD	0.02	0.10
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tblVehicleEF	MHD	0.01	9.5290e-003
tblVehicleEF	MHD	6.6100e-004	8.1000e-005
tblVehicleEF	MHD	1.7450e-003	7.1900e-004
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tblVehicleEF	MHD	6.4490e-003	0.08

tblVehicleEF	MHD	7.8800e-004	9.6000e-005
tblVehicleEF	MHD	8.6100e-004	1.9530e-003
tblVehicleEF	MHD	6.1670e-003	0.08
tblVehicleEF	MHD	7.2400e-004	8.8000e-005
tblVehicleEF	MHD	3.3760e-003	1.3770e-003
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tblVehicleEF	MHD	1.3320e-003	5.6300e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.7900e-004	2.8800e-004
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tblVehicleEF	OBUS	8.2300e-004	1.9000e-004
tblVehicleEF	OBUS	1.1600e-004	1.6990e-003
tblVehicleEF	OBUS	5.7680e-003	0.04
tblVehicleEF	OBUS	7.5700e-004	1.7400e-004
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tblVehicleEF	OBUS	9.8000e-005	1.4350e-003
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tblVehicleEF	OBUS	6.8300e-004	6.9200e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	8.1000e-004	2.0700e-004
tblVehicleEF	OBUS	1.8870e-003	2.3830e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	8.5400e-004	1.0620e-003
tblVehicleEF	OBUS	0.05	0.11
tblVehicleEF	OBUS	0.05	0.27
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6110e-003
tblVehicleEF	SBUS	0.06	6.9670e-003
tblVehicleEF	SBUS	7.83	3.03
tblVehicleEF	SBUS	0.64	0.53

tblVehicleEF	SBUS	6.66	0.94
tblVehicleEF	SBUS	1,146.29	366.87
tblVehicleEF	SBUS	1,103.40	1,115.27
tblVehicleEF	SBUS	53.92	6.06
tblVehicleEF	SBUS	10.00	3.57
tblVehicleEF	SBUS	4.65	4.82
tblVehicleEF	SBUS	0.01	4.0660e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	3.8900e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
tblVehicleEF	SBUS	0.03	8.6250e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	2.1770e-003	6.2500e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.01	3.5040e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5500e-004	6.0000e-005
tblVehicleEF	SBUS	4.6830e-003	1.3080e-003
tblVehicleEF	SBUS	0.03	8.6250e-003
tblVehicleEF	SBUS	1.35	0.52

tblVehicleEF	SBUS	2.1770e-003	6.2500e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6860e-003
tblVehicleEF	SBUS	0.05	5.8380e-003
tblVehicleEF	SBUS	7.71	2.99
tblVehicleEF	SBUS	0.65	0.54
tblVehicleEF	SBUS	4.83	0.68
tblVehicleEF	SBUS	1,198.60	377.09
tblVehicleEF	SBUS	1,103.40	1,115.28
tblVehicleEF	SBUS	53.92	5.63
tblVehicleEF	SBUS	10.32	3.66
tblVehicleEF	SBUS	4.37	4.53
tblVehicleEF	SBUS	9.1190e-003	3.4340e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	8.7240e-003	3.2850e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	8.4640e-003	2.3620e-003
tblVehicleEF	SBUS	0.03	9.1440e-003
tblVehicleEF	SBUS	0.93	0.36
tblVehicleEF	SBUS	4.0830e-003	1.1650e-003

tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.31	0.03
tblVehicleEF	SBUS	0.01	3.6000e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2400e-004	5.6000e-005
tblVehicleEF	SBUS	8.4640e-003	2.3620e-003
tblVehicleEF	SBUS	0.03	9.1440e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	4.0830e-003	1.1650e-003
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.05
tblVehicleEF	SBUS	0.34	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6040e-003
tblVehicleEF	SBUS	0.07	7.2110e-003
tblVehicleEF	SBUS	8.00	3.09
tblVehicleEF	SBUS	0.63	0.53
tblVehicleEF	SBUS	7.02	0.98
tblVehicleEF	SBUS	1,074.07	352.76
tblVehicleEF	SBUS	1,103.40	1,115.26
tblVehicleEF	SBUS	53.92	6.14
tblVehicleEF	SBUS	9.56	3.44
tblVehicleEF	SBUS	4.60	4.78
tblVehicleEF	SBUS	0.01	4.9380e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	4.5700e-004	4.0000e-005
tblVehicleEF	SBUS	0.01	4.7240e-003
tblVehicleEF	SBUS	2.6950e-003	2.6510e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.2000e-004	3.6000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	0.94	0.36
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.11	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3710e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6100e-004	6.1000e-005
tblVehicleEF	SBUS	4.1680e-003	1.1480e-003
tblVehicleEF	SBUS	0.03	8.8290e-003
tblVehicleEF	SBUS	1.35	0.52
tblVehicleEF	SBUS	2.1000e-003	6.0300e-004
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.51	3.35
tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.45	26.05
tblVehicleEF	UBUS	15.26	1.50
tblVehicleEF	UBUS	1,822.40	1,617.71

tblVehicleEF	UBUS	153.45	18.08
tblVehicleEF	UBUS	4.95	0.32
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8100e-003	1.7900e-004
tblVehicleEF	UBUS	9.7430e-003	1.6370e-003
tblVehicleEF	UBUS	0.11	9.7740e-003
tblVehicleEF	UBUS	4.7860e-003	7.1300e-004
tblVehicleEF	UBUS	2.08	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.28	0.08
tblVehicleEF	UBUS	1.52	3.35
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	8.53	26.06

tblVehicleEF	UBUS	13.06	1.28
tblVehicleEF	UBUS	1,822.40	1,617.72
tblVehicleEF	UBUS	153.45	17.70
tblVehicleEF	UBUS	4.62	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	0.53	0.05
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.06	0.07
tblVehicleEF	UBUS	9.9970e-003	4.8690e-003
tblVehicleEF	UBUS	1.7720e-003	1.7500e-004
tblVehicleEF	UBUS	0.02	2.9250e-003
tblVehicleEF	UBUS	0.14	0.01
tblVehicleEF	UBUS	9.6600e-003	1.4550e-003
tblVehicleEF	UBUS	2.09	3.43
tblVehicleEF	UBUS	0.02	0.05
tblVehicleEF	UBUS	1.17	0.07
tblVehicleEF	UBUS	1.51	3.35

tblVehicleEF	UBUS	0.09	0.02
tblVehicleEF	UBUS	8.44	26.05
tblVehicleEF	UBUS	15.44	1.49
tblVehicleEF	UBUS	1,822.40	1,617.71
tblVehicleEF	UBUS	153.45	18.06
tblVehicleEF	UBUS	4.92	0.31
tblVehicleEF	UBUS	0.50	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.06	2.9340e-003
tblVehicleEF	UBUS	1.4200e-003	1.6100e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.4780e-003
tblVehicleEF	UBUS	0.05	2.7920e-003
tblVehicleEF	UBUS	1.3060e-003	1.4800e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	0.52	0.05
tblVehicleEF	UBUS	0.03	0.05
tblVehicleEF	UBUS	1.18	0.07
tblVehicleEF	UBUS	9.9960e-003	4.8690e-003
tblVehicleEF	UBUS	1.8130e-003	1.7900e-004
tblVehicleEF	UBUS	8.9770e-003	1.7200e-003
tblVehicleEF	UBUS	0.13	0.01
tblVehicleEF	UBUS	4.3820e-003	7.5400e-004
tblVehicleEF	UBUS	2.08	3.43
tblVehicleEF	UBUS	0.03	0.05

tblVehicleEF	UBUS	1.29	0.08
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	36.20
tblVehicleTrips	CW_TL	16.60	36.20
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.35
tblVehicleTrips	ST_TR	1.68	0.38
tblVehicleTrips	SU_TR	1.68	0.35
tblVehicleTrips	SU_TR	1.68	0.38
tblVehicleTrips	WD_TR	1.68	0.35
tblVehicleTrips	WD_TR	1.68	0.38

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
Mobile	2.7629	104.3941	18.0947	0.3632	12.6365	1.6639	14.3004	3.5310	1.5918	5.1228		38,322.0382	38,322.0382	0.1436		38,325.6269
Offroad	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**27.9117**	**110.9963**	**21.8463**	**0.3784**	**12.6365**	**1.9053**	**14.5418**	**3.5310**	**1.8165**	**5.3475**		**40,049.0866**	**40,049.0866**	**0.5521**	**9.1300e-003**	**40,065.6102**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Energy	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
Mobile	2.7629	104.3941	18.0947	0.3632	12.6365	1.6639	14.3004	3.5310	1.5918	5.1228		38,322.0382	38,322.0382	0.1436		38,325.6269
Offroad	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**27.9117**	**110.9963**	**21.8463**	**0.3784**	**12.6365**	**1.9053**	**14.5418**	**3.5310**	**1.8165**	**5.3475**		**40,049.0866**	**40,049.0866**	**0.5521**	**9.1300e-003**	**40,065.6102**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/6/2020	1/6/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 20.67

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

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

3.2 Demolition - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7629	104.3941	18.0947	0.3632	12.6365	1.6639	14.3004	3.5310	1.5918	5.1228		38,322.0382	38,322.0382	0.1436		38,325.6269
Unmitigated	2.7629	104.3941	18.0947	0.3632	12.6365	1.6639	14.3004	3.5310	1.5918	5.1228		38,322.0382	38,322.0382	0.1436		38,325.6269

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	196.10	196.10	196.10	2,583,995	2,583,995
Unrefrigerated Warehouse-Rail	197.72	197.72	197.72	2,605,323	2,605,323
Total	393.82	393.82	393.82	5,189,318	5,189,318

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	36.20	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-Rail	36.20	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.167000	0.000000	0.207000	0.626000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-Rail	0.000000	0.000000	0.000000	0.000000	0.107000	0.000000	0.107000	0.786000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321
NaturalGas Unmitigated	0.0457	0.4151	0.3487	2.4900e-003		0.0315	0.0315		0.0315	0.0315		498.0723	498.0723	9.5500e-003	9.1300e-003	501.0321

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2195.11	0.0237	0.2152	0.1808	1.2900e-003		0.0164	0.0164		0.0164	0.0164		258.2486	258.2486	4.9500e-003	4.7300e-003	259.7832
Unrefrigerated Warehouse-Rail	2038.5	0.0220	0.1999	0.1679	1.2000e-003		0.0152	0.0152		0.0152	0.0152		239.8238	239.8238	4.6000e-003	4.4000e-003	241.2489
Total		**0.0457**	**0.4151**	**0.3487**	**2.4900e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**498.0723**	**498.0723**	**9.5500e-003**	**9.1300e-003**	**501.0321**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	2.19511	0.0237	0.2152	0.1808	1.2900e-003		0.0164	0.0164		0.0164	0.0164		258.2486	258.2486	4.9500e-003	4.7300e-003	259.7832
Unrefrigerated Warehouse-Rail	2.0385	0.0220	0.1999	0.1679	1.2000e-003		0.0152	0.0152		0.0152	0.0152		239.8238	239.8238	4.6000e-003	4.4000e-003	241.2489
Total		**0.0457**	**0.4151**	**0.3487**	**2.4900e-003**		**0.0316**	**0.0316**		**0.0316**	**0.0316**		**498.0723**	**498.0723**	**9.5500e-003**	**9.1300e-003**	**501.0321**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Unmitigated	24.5565	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.8130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	21.7148					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0287	2.8200e-003	0.3070	2.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003		0.6555	0.6555	1.7400e-003		0.6991
Total	**24.5566**	**2.8200e-003**	**0.3070**	**2.0000e-005**		**1.1000e-003**	**1.1000e-003**		**1.1000e-003**	**1.1000e-003**		**0.6555**	**0.6555**	**1.7400e-003**		**0.6991**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	4	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/ Backhoes	0.5467	6.1843	3.0959	0.0127		0.2088	0.2088		0.1921	0.1921		1,228.3205	1,228.3205	0.3973		1,238.2521
Total	**0.5467**	**6.1843**	**3.0959**	**0.0127**		**0.2088**	**0.2088**		**0.1921**	**0.1921**		**1,228.3205**	**1,228.3205**	**0.3973**		**1,238.2521**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

The Homestead

MOBILE SOURCE HEALTH RISK ASSESSMENT

CITY OF EASTVALE

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DECEMBER 26, 2019

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LIST OF ABBREVIATED TERMS

(1)	Reference
µg	Microgram
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
APS	Auxiliary Power System
AQMD	Air Quality Management District
ARB	Air Resources Board
CEQA	California Environmental Quality Act
CPF	Cancer Potency Factor
DPM	Diesel Particulate Matter
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
HHD	Heavy Heavy-Duty
HI	Hazard Index
HRA	Health Risk Assessment
LHD	Light Heavy-Duty
MATES	Multiple Air Toxics Exposure Study
MEIR	Maximally Exposed Individual Receptor
MEISC	Maximally Exposed Individual School Child
MEIW	Maximally Exposed Individual Worker
MHD	Medium Heavy-Duty
NAD	North American Datum
OEHHA	Office of Environmental Health Hazard
PCE	Passenger Car Equivalent
PM10	Particulate Matter 10 microns in diameter or less
Project	The Homestead
REL	Reference Exposure Level
RM	Recommended Measures
SCAQMD	South Coast Air Quality Management District
SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis
URF	Unit Risk Factor
UTM	Universal Transverse Mercator
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

This report evaluates the potential mobile source health risk impacts to sensitive receptors (residents) and adjacent workers associated with the development of the proposed Project, more specifically, health risk impacts as a result of exposure to diesel particulate matter (DPM) as a result of heavy-duty diesel trucks accessing the site. This section summarizes the significance criteria and Project mobile source health risks.

The results of the health risk assessment of lifetime cancer risk from Project-generated DPM emissions are provided in Table ES-1 below.

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is located at 285 feet northeast of the Project site at the northeast corner of Archibald Avenue and Remington Avenue. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 2.49 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0009, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent residences. All other modeled residential locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein.

Worker Exposure Scenario:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is located at an existing industrial building immediately adjacent (approximately 10 feet south) of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact at this location is 0.63 in one million which is less than the threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.002, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. All other modeled worker locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein.

School Child Exposure Scenario:

The school site land use with the greatest potential exposure to Project DPM source emissions is at the Harada Elementary School located more than 1.5 miles east of the Project site, south of Limonite Avenue. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact attributable to the Project at this location is calculated to be an estimated 0.05 in one million which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be 0.0001, which would not exceed the applicable significance threshold of 1.0. Any other schools near the Project site would be exposed to less emissions and consequently less impacts than what is

disclosed for the MEISC[1]. As such, the Project will not cause a significant human health or cancer risk to nearby school children. It should be noted that there are other schools in the vicinity of the Project that may be located closer to the Project site itself, but these locations do not necessarily experience the maximum concentrations resulting from the emissions generated on the Project site as well as off-site emissions from travel along truck routes. The reason a location located further away may be more impacted is typically a function of meteorological conditions (wind speed, direction) as well as proximity of the receptor to not just on-site sources but also off-site sources such as truck travel along study area roadways.

TABLE ES-1: SUMMARY OF CANCER AND NON-CANCER RISKS

Time Period	Location	Maximum Lifetime Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold
30 Year Exposure	Maximum Exposed Sensitive Receptor	2.49	10	NO
25 Year Exposure	Maximum Exposed Worker Receptor	0.63	10	NO
9 Year Exposure	Maximum Exposed School Child Receptor	0.05	10	NO
Time Period	**Location**	**Maximum Hazard Index**	**Significance Threshold**	**Exceeds Significance Threshold**
Annual Average	Maximum Exposed Sensitive Receptor	0.0009	1.0	NO
Annual Average	Maximum Exposed Worker Receptor	0.002	1.0	NO
Annual Average	Maximum Exposed School Child Receptor	0.0001	1.0	NO

1 Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on CARB and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

1 INTRODUCTION

The purpose of this Health Risk Assessment (HRA) is to evaluate Project-related impacts to sensitive receptors (residential, schools) and adjacent workers as a result of heavy-duty diesel trucks accessing the site.

The South Coast Air Quality Management District (SCAQMD) reviewed the conceptual site plan for the proposed project and provided input to the City on the scope of the air quality analysis. SCAQMD identifies that if a proposed Project is expected to generate/attract heavy-duty diesel trucks, which emit diesel particulate matter (DPM), preparation of a mobile source HRA is recommended. This document serves to meet the SCAQMD's request for preparation of a HRA. The mobile source HRA has been prepared in accordance with the document Health Risk Assessment Guidance for Analyzing Cancer Risk from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1) and is comprised of all relevant and appropriate procedures presented by the U.S. EPA, California Environmental Protection Agency and SCAQMD. Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of ten (10) persons per million as the maximum acceptable incremental cancer risk due to DPM exposure. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulative impact.

The AQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (2). In this report the AQMD clearly states (Page D-3):

"…the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (TAC) emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Non-carcinogenic risks are quantified by calculating a "hazard index," 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 hazard index less of than one (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.

1.1 SITE LOCATION

The proposed The Homestead is located west of Archibald Avenue and on either side of Limonite Avenue, in the City of Eastvale, as shown on Exhibit 1-A. Chino Airport is located approximately one mile west of the Project site. Existing land uses in the Project study area include residential uses north, east, and southeast of the Project site, and existing agricultural use to the west and south (designated as future commercial use) of the Project site.

1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary site plan. As indicated on Exhibit 1-B, the Project is proposed to consist of the following uses:

- 560,291 square feet (sf) of warehousing use
- 520,317 sf of high-cube fulfillment center use

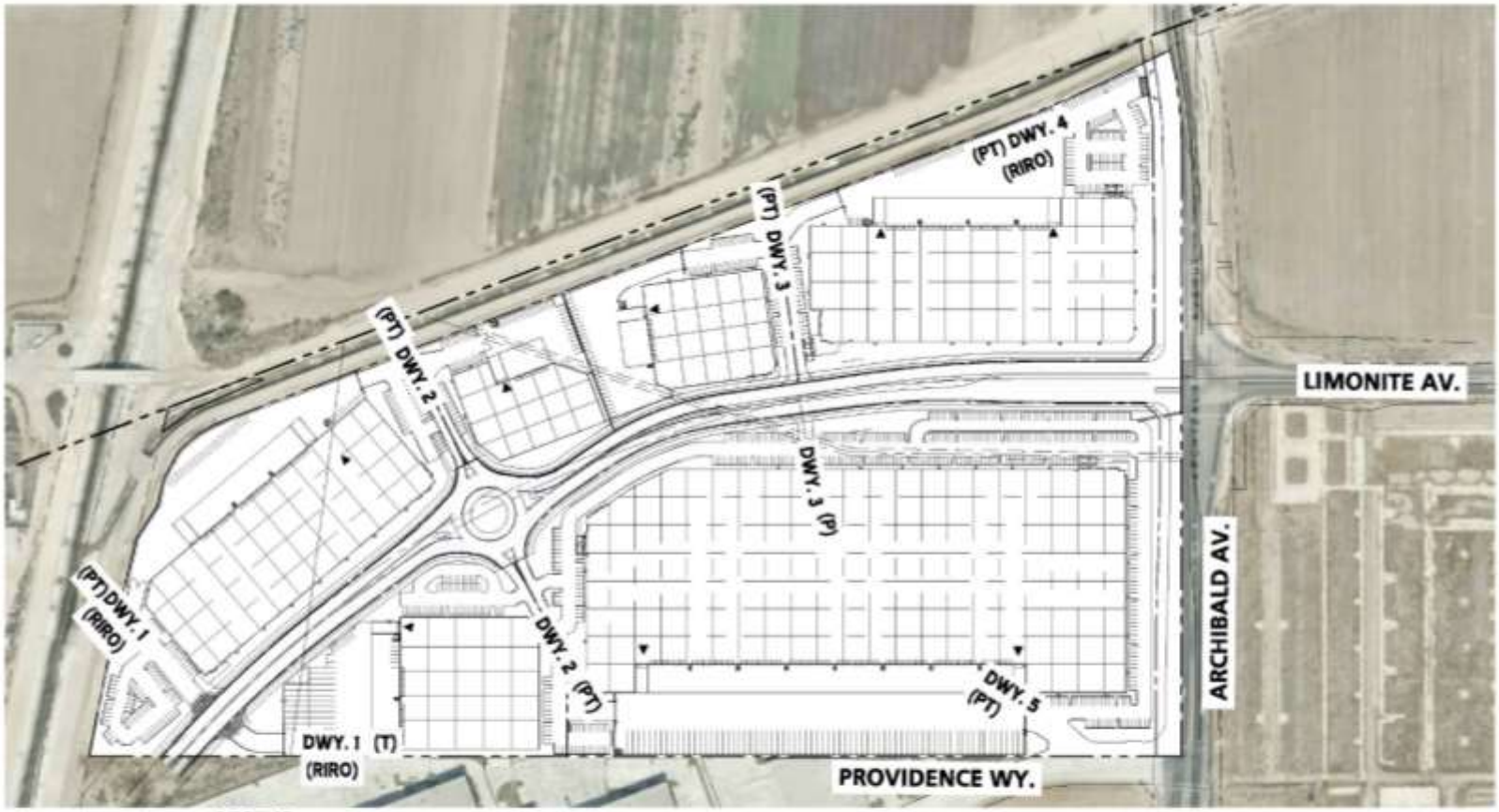
Since the time this HRA was prepared, the site plan has been updated. The current site plan shows 541,756 square feet of warehousing use and 507,631 square feet of high-cube fulfillment center warehouse use. These updated site plan building square footages are less intensive, and as such the number of trips and consequently emissions would decrease. However, for the purposes of this HRA, the higher square footage (and therefore higher trip generation and consequently emissions) has been evaluated in an effort to conduct a conservative analysis and overstate as opposed to understate potential HRA impacts.

The Project is anticipated to be constructed in a single phase by the year 2021. At the time this HRA was prepared, the future tenants of the proposed Project were unknown. This HRA study is intended to describe emission impacts associated with the expected typical 24-hour, seven days per week operational activities at the Project site.

According to *The Homestead Traffic Impact Analysis* (TIA) (Urban Crossroads, Inc., 2019) prepared by Urban Crossroads, Inc., the Project trip generation includes 2,102 two-way trips per day (actual vehicles). The Project trip generation includes 408 two-way truck trips per day (3). This health risk assessment study relies on the actual Project trips (as opposed to the passenger car equivalents) to accurately account for the effect of individual truck trips to adjacent receptors.

EXHIBIT 1-A: LOCATION MAP

EXHIBIT 1-B: SITE PLAN



LEGEND:

RIRO	= RIGHT-IN/RIGHT-OUT ONLY ACCESS
P	= PASSENGER CARS ONLY
T	= TRUCKS ONLY
PT	= PASSENGER CARS AND TRUCKS

N

NOTE: UNLESS NOTED, ALL DRIVEWAYS ARE ASSUMED TO BE FULL ACCESS.

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2 BACKGROUND

2.1 BACKGROUND ON RECOMMENDED METHODOLOGY

As noted above, this HRA is based on SCAQMD guidelines to produce conservative estimates of risk posed by exposure to DPM. The conservative nature of this analysis is due primarily to the following factors:

- The CARB-adopted diesel exhaust Unit Risk Factor (URF) of 300 in one million per µg/m3 is based upon the upper 95 percentile of estimated risk for each of the epidemiological studies utilized to develop the URF. Using the 95th percentile URF represents a very conservative (health-protective) risk posed by DPM.
- The emissions derived assume that every truck accessing the project site will idle for 15 minutes under the unmitigated scenario, this is an overestimation of actual idling times and thus conservative.[2] It should be noted that CARB's anti-idling requirements impose a 5-minute maximum idling time and therefore the analysis conservatively overestimates DPM emissions from idling by a factor of 3.

2.2 EMISSIONS ESTIMATION

2.2.1 ON-SITE AND OFF-SITE TRUCK ACTIVITY

Vehicle DPM emissions were estimated using emission factors for particulate matter less than 10µm in diameter (PM_{10}) generated with the 2017 version of the Emission FACtor model (EMFAC) developed by the ARB. EMFAC2017 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 the ARB to project changes in future emissions from on-road mobile sources (4). The most recent version of this model, EMFAC2017, incorporates regional motor vehicle data, information and estimates regarding the distribution of vehicle miles traveled (VMT) by speed, and number of starts per day.

Several distinct emission processes are included in EMFAC2017. Emission factors calculated using EMFAC2017 are expressed in units of grams per vehicle miles traveled (g/VMT) or grams per idle-hour (g/idle-hr), depending on the emission process. The emission processes and corresponding emission factor units associated with diesel particulate exhaust for this Project are presented below.

For this Project, annual average PM_{10} emission factors were generated by running EMFAC2017 in EMFAC Mode for vehicles in the Riverside County jurisdiction. The EMFAC Mode 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 temperature, relative humidity, and vehicle speed.

[2] Although the Project is required to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (personal communication, in person, with Jillian Wong, December 22, 2016), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc.

The model was run for speeds traveled in the vicinity of the Project. The vehicle travel speeds for each segment modeled are summarized below.

- Idling – on-site loading/unloading and truck gate
- 5 miles per hour – on-site vehicle movement including driving and maneuvering
- 25 miles per hour – off-site vehicle movement including driving and maneuvering. Use of 25 miles per hour for off-site vehicle travel along study area roadways is conservative since this speed is less than the posted speed limit on most public streets and generates a higher emissions factor for analytical purposes than using a higher speed. Use of the lower speed also ensures that average speeds throughout the day are appropriately accounted for.

Calculated emission factors are shown at Table 2-1. As a conservative measure, a 2021 EMFAC2017 run was conducted and a static 2021 emissions factor data set was used for the entire duration of analysis herein (e.g., 30 years). Use of 2021 emission factors would overstate potential impacts since this approach assumes that emission factors remain "static" and do not change over time due to fleet turnover or cleaner technology with lower emissions that would incorporated after 2021. Additionally, based on EMFA C2017, Light-Heavy-Duty Trucks comprise of 48.91% diesel, Medium-Heavy-Duty Trucks comprise of 88.92% diesel, and Heavy-Heavy-Duty Trucks comprise of 98.96% diesel trucks and have been accounted for accordingly in the emissions factor generation.

The vehicle DPM exhaust emissions were calculated for running exhaust emissions. The running exhaust emissions were calculated by applying the running exhaust PM10 emission factor (g/VMT) from EMFAC over the total distance traveled. The following equation was used to estimate off-site emissions for each of the different vehicle classes comprising the mobile sources (4):

$Emissions_{speedA}$ (g/s) = $EF_{RunExhaust}$ (g/VMT) * Distance (VMT/trip) * Number of Trips (trips/day) / seconds per day

Where:

$Emissions_{speedA}$ (g/s): Vehicle emissions at a given speed A;

$EF_{RunExhaust}$ (g/VMT): EMFAC running exhaust PM_{10} emission factor at speed A;

Distance (VMT/trip): Total distance traveled per trip.

Similar to off-site traffic, on-site vehicle running emissions were calculated by applying the running exhaust PM_{10} emission factor (g/VMT) from EMFAC and the total vehicle trip number over the length of the driving path using the same formula presented above for on-site emissions. In addition, on-site vehicle idling exhaust emissions were calculated by applying the idle exhaust PM_{10} emission factor (g/idle-hr) from EMFAC and the total truck trip over the total idle time (15 minutes). The following equation was used to estimate the on-site vehicle idling emissions for each of the different vehicle classes (4):

$Emissions_{idle}$ (g/s) = EF_{idle} (g/hr) * Number of Trips (trips/day) * Idling Time (min/trip) *

60 minutes per hour / seconds per day

Where:

$Emissions_{idle}$ (g/s): Vehicle emissions during idling;

EF_{idle}(g/s): EMFAC idle exhaust PM_{10} emission factor.

TABLE 2-1: 2021 WEIGHTED AVERAGE DPM EMISSIONS FACTORS

Speed	Weighted Average
0 (idling)	0.10561 (g/idle-hr)
5	0.09741 (g/s)
25	0.04032 (g/s)

Each roadway was modeled as a line source (made up of multiple adjacent volume sources). Due to the large number of volume sources modeled for this analysis, the corresponding coordinates of each volume source have not been included in this report but are included in Appendix "2.1". The DPM emission rate for each volume source was calculated by multiplying the emission factor (based on the average travel speed along the roadway) by the number of trips and the distance traveled along each roadway segment and dividing the result by the number of volume sources along that roadway, as illustrated on Table 2-2 and 2-3. The modeled emission sources are illustrated on Exhibit 2-A. The modeled truck travel routes included in the HRA are based on the truck trip distributions (inbound and outbound) available from the Project's Traffic Impact Analysis (TIA) (3). The modeled truck route is consistent with the trip distribution patterns identified in the Project's traffic study, is supported by substantial evidence, and was modeled to determine the potential impacts to sensitive receptors along the primary truck routes. The modeling domain was extended along the Project's primary truck route and includes off-site sources in the study area for more than 3 miles. This modeling domain is substantially more conservative than using only a ¼ mile modeling domain, which is supported by substantial evidence since several studies have shown that the greatest potential risks occur within a ¼ mile of the primary source of emissions (5) (in the case of the Project this is the on-site idling and on-site travel).

On-site truck idling was estimated to occur as trucks enter and travel through the facility. Although the Project is required to comply with CARB's idling limit of 5 minutes, staff at SCAQMD recommends that the on-site idling emissions should be estimated for 15 minutes of truck idling (6), which would take into account on-site idling which occurs while the trucks are waiting to pull up to the truck bays, idling at the bays, idling at check-in and check-out, etc. As such, this analysis estimated truck idling at 15 minutes, consistent with SCAQMD's recommendation.

According to *The Homestead Traffic Impact Analysis* (TIA) (Urban Crossroads, Inc., 2019) prepared by Urban Crossroads, Inc., the Project trip generation includes 2,102 two-way trips per day (actual vehicles). The Project trip generation includes 408 two-way truck trips per day (3). This health risk assessment study relies on the actual Project trips (as opposed to the passenger car equivalents) to accurately account for the effect of individual truck trips to adjacent receptors.

EXHIBIT 2-A MODELED EMISSION SOURCES

TABLE 2-2: DPM EMISSIONS FROM PROJECT TRUCKS (2021 ANALYSIS YEAR)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
Building 1 On-Site Idling	33			0.1056	0.87	1.008E-05
Building 2 On-Site Idling	15			0.1056	0.40	4.584E-06
Building 3 On-Site Idling	10			0.1056	0.26	3.056E-06
Building 4 On-Site Idling	16			0.1056	0.42	4.889E-06
Building 5 On-Site Idling	13			0.1056	0.34	3.973E-06
Building 6 On-Site Idling	18			0.1056	0.48	5.500E-06
Building 7 On-Site Idling	99			0.1056	2.61	3.025E-05
Buildings 1 On-Site Travel	66	13.29	0.0974		1.29	1.498E-05
Building 2 On-Site Travel	30	5.74	0.0974		0.56	6.473E-06
Building 3 On-Site Travel	20	1.65	0.0974		0.16	1.865E-06
Building 4 On-Site Travel	32	6.06	0.0974		0.59	6.833E-06
Building 5 On-Site Travel	26	0.99	0.0974		0.10	1.120E-06
Building 6 On-Site Travel	36	7.11	0.0974		0.69	8.020E-06
Building 7 On-Site Travel	198	62.77	0.0974		6.11	7.077E-05
5% Inbound Dwy 6	10	0.18	0.0403		0.01	8.576E-08
15% Inbound Dwy 7	31	9.50	0.0403		0.38	4.433E-06
20% Inbound on Limonite	41	15.39	0.0403		0.62	7.182E-06
40% Inbound on Limonite	82	19.89	0.0403		0.80	9.279E-06
20% Inbound on Limonite	41	9.43	0.0403		0.38	4.401E-06
20% Outbound on Limonite	41	9.43	0.0403		0.38	4.401E-06
75% Outbound on Limonite	153	36.26	0.0403		1.46	1.692E-05
40% Outbound	82	9.79	0.0403		0.39	4.566E-06
40% Outbound	82	1.25	0.0403		0.05	5.820E-07
20% Inbound/Outbound (Limonite Extension)	82	164.26	0.0403		6.62	7.664E-05
40% Inbound/Outbound on Archibald Av.	163	260.79	0.0403		10.51	1.217E-04
40% Inbound/Outbound on Limonite	163	266.63	0.0403		10.75	1.244E-04

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

2.3 EXPOSURE QUANTIFICATION

The analysis herein has been conducted in accordance with the guidelines in the Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1). SCAQMD recommends using the Environmental Protection Agency's (EPA's) AERMOD model. For purposes of this analysis, the Lakes AERMOD View (Version 9.8.4) was used to calculate annual average particulate concentrations associated with site operations. Lakes AERMOD View was utilized to incorporate the EPA's latest AERMOD Version 19191 (7).

The model offers additional flexibility by allowing the user to assign an initial release height and vertical dispersion parameters for mobile sources representative of a roadway. For this HRA, the roadways were modeled as adjacent volume sources. Roadways were modeled using the U.S. EPA's haul route methodology for modeling of on-site and off-site truck movement. More specifically, the Haul Road Volume Source Calculator in Lakes AERMOD View has been utilized to determine the release height parameters. Based on the US EPA methodology, the Project's modeled sources would result in a release height of 3.49 meters, and an initial lateral dimension of 4.0 meters, and an initial vertical dimension of 3.25 meters.

SCAQMD required model parameters are presented in Table 2-4 (8). The model requires additional input parameters including emission data and local meteorology. Meteorological data from the SCAQMD's Chino Airport monitoring station (SRA 33) was used to represent local weather conditions and prevailing winds (9). A wind rose exhibit of the Peris monitoring station is provided at Exhibit 2-B.

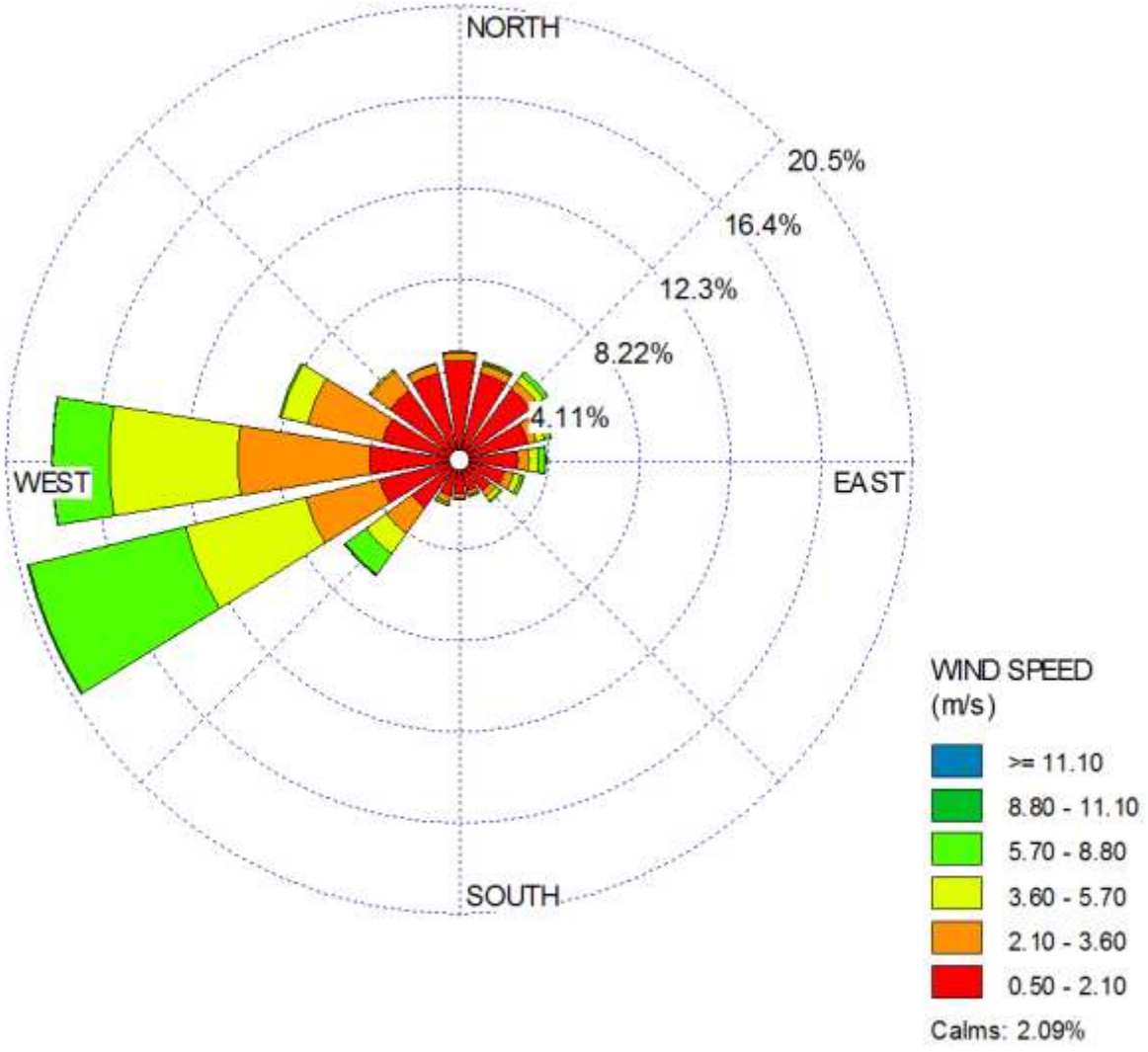
TABLE 2-4: AERMOD MODEL PARAMETERS

Dispersion Coefficient	Urban
Population	2,035,210
Terrain	Elevated (Regulatory Default)
Averaging Time	1 year (5-year Meteorological Data Set)
Receptor Height	0 meters (Regulatory Default)

Universal Transverse Mercator (UTM) coordinates for World Geodetic System (WGS) 84 were used to locate the project boundaries, each volume source location, and receptor locations in the project vicinity. The AERMOD dispersion model summary output files for the proposed facility are presented in Appendix "2.1".

Modeled sensitive receptors were placed at residential and non-residential locations. Based on recommendations from SCAQMD staff, a receptor grid with a maximum of 100 meters spacing were placed at residential and worker locations to ensure that the maximum impacts are properly analyzed.

EXHIBIT 2-B: WIND ROSE (SRA 33)



Receptors may be placed at applicable structure locations for residential and worker property and not necessarily the boundaries of these uses. It should be noted that the primary purpose of receptor placement is focused on long-term exposure. For example, the HRA evaluates the potential health risks to residential and worker over a period of 30 or 25 years of exposure, respectively. As such, even though it is unlikely to occur in practical terms (because the amount of time spent indoors), this study assumes that a resident or worker would be exposed over a long-period of time for 12 or 24-hours per day at the structure where they reside or work.

Furthermore, worker receptors immediately adjacent to the Project site have been evaluated in the HRA. Any impacts to workers located further away from the Project site than the modeled worker receptors would have a lesser impact than what has already been disclosed in the HRA at the MEIW. Exhibit 2-C illustrates the nearest modeled receptors in the Project vicinity.

Discrete variants for daily breathing rates, exposure frequency, and exposure duration were obtained from relevant distribution profiles presented in the 2015 OEHHA Guidelines. Tables 2-5 through 2-7 summarize the Exposure Parameters for Residents, Offsite Worker, and School exposure scenarios based on 2015 OEHHA Guidelines. Appendix 2.2 includes the detailed risk calculation.

2.4 CARCINOGENIC CHEMICAL RISK

The SCAQMD CEQA Air Quality Handbook (1993) states that emissions of toxic air contaminants (TACs) are considered significant if a HRA shows an increased risk of greater than 10 in one million. Based on guidance from the SCAQMD in the document Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis (1), for purposes of this analysis, 10 in one million is used as the cancer risk threshold for the proposed Project.

Excess cancer risks are estimated as the upper-bound incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens over a specified exposure duration. The estimated risk is expressed as a unitless probability. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 10 in one million implies a likelihood that up to 10 people, 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. As an example, the risk of dying from accidental drowning is 1,000 in a million which is 100 times more than the SCAQMD's threshold of 10 in one million, the nearest comparison to 10 in one million is the 7 in one million lifetime chance that an individual would be struck and killed by lightning (10).

EXHIBIT 2-C: NEAREST MODELED RECEPTOR LOCATIONS

TABLE 2-5: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (30 YEAR RESIDENTIAL)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Fraction of Time at Home	Exposure Frequency (days/year)	Exposure Time (hours/day)
-0.25 to 0	361	10	0.25	0.85	350	24
0 to 2	1,090	10	2	0.85	350	24
2 to 16	572	3	14	0.72	350	24
16 to 30	261	1	14	0.73	350	24

TABLE 2-6: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (25 YEAR WORKER)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year)	Exposure Time (hours/day)
16 to 41	230	1	25	250	12

TABLE 2-7: EXPOSURE ASSUMPTIONS FOR INDIVIDUAL CANCER RISK (9 YEAR SCHOOL CHILD)

Age	Daily Breathing Rate (L/kg-day)	Age Specific Factor	Exposure Duration (years)	Exposure Frequency (days/year) [a]	Exposure Time (hours/day)
9 year duration	572	3	9	180	12

[a] To represent the unique characteristics of the school-based population, the assessment employed the U.S. Environmental Protection Agency's guidance to develop viable dose estimates based on reasonable maximum exposures (RME). RME's are defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. As a result, lifetime risk values for the student population were adjusted to account for an exposure duration of 180 days per year for nine (9) years. The 9 year exposure duration is also consistent with OEHHA Recommendations and consistent with the exposure duration utilized in school-based risk assessments for various schools within the Los Angeles County Unified School District (LAUSD) that have been accepted by the SCAQMD.

Guidance from CARB and the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) recommends a refinement to the standard point estimate approach when alternate human body weights and breathing rates are utilized to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose. Once determined, contaminant dose is multiplied by the cancer potency factor (CPF) in units of inverse dose expressed in milligrams per kilogram per day (mg/kg/day)-1 to derive the cancer risk estimate. Therefore, to assess exposures, the following dose algorithm was utilized.

DOSEair = (Cair × [BR/BW] × A × EF) x (1 x 10 -6)

Where:

DOSEair = chronic daily intake (mg/kg/day)

Cair = concentration of contaminant in air (ug/m3)

[BR/BW] = daily breathing rate normalized to body weight (L/kg BW-day)

A = inhalation absorption factor

EF = exposure frequency (days/365 days)

BW = body weight (kg)

1 x 10 -6 = conversion factors (ug to mg, L to m3)

RISKair = DOSEair x CPF x ED/AT

Where:

DOSEair = chronic daily intake (mg/kg/day)

CPF = cancer potency factor

ED = number of years within particular age group

AT = averaging time

2.5 NON-CARCINOGENIC EXPOSURES

An evaluation of the potential noncarcinogenic effects of chronic exposures was also conducted. Adverse health effects are evaluated by comparing a compound's annual concentration with its toxicity factor or Reference Exposure Level (REL). The REL for diesel particulates was obtained from OEHHA for this analysis. The chronic reference exposure level (REL) for DPM was established by OEHHA as 5 µg/m^3 (OEHHA Toxicity Criteria Database, http://www.oehha.org/risk/chemicaldb/index.asp).

The non-cancer hazard index was calculated (consistent with SCAQMD methodology) as follows:

The relationship for the non-cancer health effects of DPM is given by the following equation:

$$HI_{DPM} = C_{DPM}/REL_{DPM}$$

Where:

HI_{DPM} = Hazard Index; an expression of the potential for non-cancer health effects.

C_{DPM} = Annual average DPM concentration (µg/m^3).

REL_{DPM} = Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

For purposes of this analysis the hazard index for the respiratory endpoint totaled less than one for all receptors in the project vicinity, and thus is less than significant.

2.6 POTENTIAL PROJECT-RELATED DPM SOURCE CANCER AND NON-CANCER RISKS[3]

Residential Exposure Scenario:

The residential land use with the greatest potential exposure to Project DPM source emissions is located at 285 feet northeast of the Project site at the northeast corner of Archibald Avenue and Remington Avenue. At the maximally exposed individual receptor (MEIR), the maximum incremental cancer risk attributable to Project DPM source emissions is estimated at 2.49 in one million, which is less than the threshold of 10 in one million. At this same location, non-cancer risks were estimated to be 0.0009, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent residences. All other modeled residential locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIR identified herein.

Worker Exposure Scenario:

The worker receptor land use with the greatest potential exposure to Project DPM source emissions is located at an existing industrial building immediately adjacent (approximately 10 feet south) of the Project site. At the maximally exposed individual worker (MEIW), the maximum incremental cancer risk impact at this location is 0.63 in one million which is less than the threshold of 10 in one million. Maximum non-cancer risks at this same location were estimated to be 0.002, which would not exceed the applicable threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk to adjacent workers. All other modeled worker locations in the vicinity of the Project would be exposed to less emissions and therefore less risk than the MEIW identified herein.

School Child Exposure Scenario:

The school site land use with the greatest potential exposure to Project DPM source emissions is at the Harada Elementary School located more than 1.5 miles east of the Project site, south of Limonite Avenue. At the maximally exposed individual school child (MEISC), the maximum incremental cancer risk impact attributable to the Project at this location is calculated to be an estimated 0.05 in one million which is less than the significance threshold of 10 in one million. At this same location, non-cancer risks attributable to the Project were calculated to be 0.0001, which would not exceed the applicable significance threshold of 1.0. Any other schools near the Project site would be exposed to less emissions and consequently less impacts than what is

3 SCAQMD guidance does not require assessment of the potential health risk to on-site workers. Excerpts from the document OEHHA Air Toxics Hot Spots Program Risk Assessment Guidelines—The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments (OEHHA 2003), also indicate that it is not necessary to examine the health effects to on-site workers unless required by RCRA (Resource Conservation and Recovery Act) / CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) or the worker resides on-site.

disclosed for the MEISC[4]. As such, the Project will not cause a significant human health or cancer risk to nearby school children. It should be noted that there are other schools in the vicinity of the Project that may be located closer to the Project site itself, but these locations do not necessarily experience the maximum concentrations resulting from the emissions generated on the Project site as well as off-site emissions from travel along truck routes. The reason a location located further away may be more impacted is typically a function of meteorological conditions (wind speed, direction) as well as proximity of the receptor to not just on-site sources but also off-site sources such as truck travel along study area roadways.

4 Proximity to sources of toxics is critical to determining the impact. In traffic-related studies, the additional non-cancer health risk attributable to proximity was seen within 1,000 feet and was strongest within 300 feet. California freeway studies show about a 70-percent drop-off in particulate pollution levels at 500 feet. Based on CARB and SCAQMD emissions and modeling analyses, an 80-percent drop-off in pollutant concentrations is expected at approximately 1,000 feet from a distribution center (1).

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3 REFERENCES

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4 CERTIFICATION

The contents of this health risk assessment represent an accurate depiction of the impacts to sensitive receptors associated with the proposed The Homestead Project. The information contained in this health risk assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Environmental Site Assessment – American Society for Testing and Materials • June, 2013
Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August, 2007
AB2588 Regulatory Standards – Trinity Consultants • November, 2006
Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 2.1:

AERMOD MODEL INPUT/OUTPUT

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 9.8.3
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 12/26/2019
** FILE: C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ADI
**
**************************************
**
**
**************************************
** AERMOD CONTROL PATHWAY
**************************************
**
**
CO STARTING
   TITLEONE C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2035210
   POLLUTID DPM
   RUNORNOT RUN
   ERRORFIL "11964 HRA 12-19.ERR"
CO FINISHED
**
**************************************
** AERMOD SOURCE PATHWAY
**************************************
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** ------------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC BUILDING 1 ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001008
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 445137.735, 3759698.462, 199.57, 3.49, 4.00
```

```
** 444986.515, 3759699.607, 198.81, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0003527     VOLUME   445133.440 3759698.494 199.44
   LOCATION L0003528     VOLUME   445124.850 3759698.559 199.55
   LOCATION L0003529     VOLUME   445116.260 3759698.624 199.66
   LOCATION L0003530     VOLUME   445107.671 3759698.690 199.60
   LOCATION L0003531     VOLUME   445099.081 3759698.755 199.48
   LOCATION L0003532     VOLUME   445090.491 3759698.820 199.37
   LOCATION L0003533     VOLUME   445081.901 3759698.885 199.26
   LOCATION L0003534     VOLUME   445073.311 3759698.950 199.15
   LOCATION L0003535     VOLUME   445064.722 3759699.015 199.04
   LOCATION L0003536     VOLUME   445056.132 3759699.080 198.93
   LOCATION L0003537     VOLUME   445047.542 3759699.145 198.82
   LOCATION L0003538     VOLUME   445038.952 3759699.210 198.70
   LOCATION L0003539     VOLUME   445030.363 3759699.275 198.69
   LOCATION L0003540     VOLUME   445021.773 3759699.340 198.69
   LOCATION L0003541     VOLUME   445013.183 3759699.405 198.69
   LOCATION L0003542     VOLUME   445004.593 3759699.470 198.69
   LOCATION L0003543     VOLUME   444996.004 3759699.536 198.69
   LOCATION L0003544     VOLUME   444987.414 3759699.601 198.69
** END OF LINE VOLUME SOURCE ID = SLINE1
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE2
** DESCRSRC BUILDING 2 ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.584E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 444861.071, 3759631.444, 197.76, 3.49, 4.00
** 444906.896, 3759643.473, 197.90, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0003545     VOLUME   444865.226 3759632.534 197.72
   LOCATION L0003546     VOLUME   444873.534 3759634.715 197.85
   LOCATION L0003547     VOLUME   444881.843 3759636.896 197.98
   LOCATION L0003548     VOLUME   444890.151 3759639.077 198.00
   LOCATION L0003549     VOLUME   444898.460 3759641.258 198.01
   LOCATION L0003550     VOLUME   444906.768 3759643.439 198.02
** END OF LINE VOLUME SOURCE ID = SLINE2
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE3
** DESCRSRC BUILDING 3 ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
```

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** CONFIGURATION = ADJACENT
** EMISSION RATE = 3.056E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 444758.540, 3759602.231, 196.70, 3.49, 4.00
** 444778.015, 3759609.105, 196.81, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003551     VOLUME   444762.590 3759603.661 196.63
   LOCATION L0003552     VOLUME   444770.690 3759606.519 196.67
** END OF LINE VOLUME SOURCE ID = SLINE3
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE4
** DESCRSRC BUILDING 4 ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.889E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 444635.387, 3759537.505, 195.03, 3.49, 4.00
** 444661.736, 3759551.825, 195.03, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003553     VOLUME   444639.161 3759539.555 194.99
   LOCATION L0003554     VOLUME   444646.709 3759543.657 195.00
   LOCATION L0003555     VOLUME   444654.256 3759547.759 195.06
** END OF LINE VOLUME SOURCE ID = SLINE4
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC BUILDING 5 ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 3.973E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 444554.622, 3759426.381, 193.91, 3.49, 4.00
** 444523.118, 3759468.195, 193.98, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003556     VOLUME   444552.038 3759429.811 193.74
   LOCATION L0003557     VOLUME   444546.869 3759436.672 193.81
   LOCATION L0003558     VOLUME   444541.700 3759443.533 193.89
   LOCATION L0003559     VOLUME   444536.531 3759450.393 193.96
   LOCATION L0003560     VOLUME   444531.362 3759457.254 194.03
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   LOCATION L0003561     VOLUME   444526.193 3759464.115 194.11
** END OF LINE VOLUME SOURCE ID = SLINE5
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE6
** DESCRSRC BUILDING 6 ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 5.5E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 444743.074, 3759390.867, 194.34, 3.49, 4.00
** 444695.532, 3759354.781, 193.98, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003562     VOLUME   444739.653 3759388.270 194.41
   LOCATION L0003563     VOLUME   444732.811 3759383.077 194.29
   LOCATION L0003564     VOLUME   444725.969 3759377.884 194.19
   LOCATION L0003565     VOLUME   444719.126 3759372.690 194.13
   LOCATION L0003566     VOLUME   444712.284 3759367.497 194.07
   LOCATION L0003567     VOLUME   444705.442 3759362.303 194.02
   LOCATION L0003568     VOLUME   444698.600 3759357.110 193.96
** END OF LINE VOLUME SOURCE ID = SLINE6
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE7
** DESCRSRC BUILDING 7 ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00003025
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 444868.518, 3759377.693, 194.84, 3.49, 4.00
** 445103.939, 3759381.702, 196.80, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003569     VOLUME   444872.812 3759377.766 195.17
   LOCATION L0003570     VOLUME   444881.401 3759377.912 195.20
   LOCATION L0003571     VOLUME   444889.990 3759378.058 195.20
   LOCATION L0003572     VOLUME   444898.578 3759378.205 195.20
   LOCATION L0003573     VOLUME   444907.167 3759378.351 195.20
   LOCATION L0003574     VOLUME   444915.756 3759378.497 195.21
   LOCATION L0003575     VOLUME   444924.345 3759378.644 195.21
   LOCATION L0003576     VOLUME   444932.933 3759378.790 195.21
   LOCATION L0003577     VOLUME   444941.522 3759378.936 195.21
   LOCATION L0003578     VOLUME   444950.111 3759379.082 195.21
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   LOCATION L0003579     VOLUME   444958.700 3759379.229 195.22
   LOCATION L0003580     VOLUME   444967.288 3759379.375 195.33
   LOCATION L0003581     VOLUME   444975.877 3759379.521 195.45
   LOCATION L0003582     VOLUME   444984.466 3759379.668 195.56
   LOCATION L0003583     VOLUME   444993.055 3759379.814 195.67
   LOCATION L0003584     VOLUME   445001.643 3759379.960 195.79
   LOCATION L0003585     VOLUME   445010.232 3759380.106 195.90
   LOCATION L0003586     VOLUME   445018.821 3759380.253 196.01
   LOCATION L0003587     VOLUME   445027.410 3759380.399 196.13
   LOCATION L0003588     VOLUME   445035.998 3759380.545 196.24
   LOCATION L0003589     VOLUME   445044.587 3759380.692 196.35
   LOCATION L0003590     VOLUME   445053.176 3759380.838 196.47
   LOCATION L0003591     VOLUME   445061.765 3759380.984 196.58
   LOCATION L0003592     VOLUME   445070.354 3759381.130 196.70
   LOCATION L0003593     VOLUME   445078.942 3759381.277 196.81
   LOCATION L0003594     VOLUME   445087.531 3759381.423 196.92
   LOCATION L0003595     VOLUME   445096.120 3759381.569 197.04
** END OF LINE VOLUME SOURCE ID = SLINE7
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE8
** DESCRSRC ON-SITE TRAVEL BUILDING 1
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001498
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 5
** 444968.968, 3759603.941, 197.91, 3.49, 4.00
** 444963.721, 3759683.518, 198.52, 3.49, 4.00
** 444971.154, 3759700.570, 198.73, 3.49, 4.00
** 445090.082, 3759735.111, 199.83, 3.49, 4.00
** 445183.212, 3759776.211, 199.69, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0003596     VOLUME   444968.686 3759608.227 197.70
   LOCATION L0003597     VOLUME   444968.120 3759616.798 197.79
   LOCATION L0003598     VOLUME   444967.555 3759625.370 197.88
   LOCATION L0003599     VOLUME   444966.990 3759633.941 197.97
   LOCATION L0003600     VOLUME   444966.425 3759642.513 198.07
   LOCATION L0003601     VOLUME   444965.860 3759651.084 198.16
   LOCATION L0003602     VOLUME   444965.295 3759659.655 198.25
   LOCATION L0003603     VOLUME   444964.730 3759668.227 198.35
   LOCATION L0003604     VOLUME   444964.164 3759676.798 198.44
   LOCATION L0003605     VOLUME   444964.463 3759685.219 198.53
   LOCATION L0003606     VOLUME   444967.895 3759693.093 198.61
   LOCATION L0003607     VOLUME   444971.571 3759700.691 198.70
   LOCATION L0003608     VOLUME   444979.820 3759703.087 198.72
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   LOCATION L0003609     VOLUME   444988.069 3759705.483 198.75
   LOCATION L0003610     VOLUME   444996.319 3759707.879 198.78
   LOCATION L0003611     VOLUME   445004.568 3759710.274 198.80
   LOCATION L0003612     VOLUME   445012.817 3759712.670 198.83
   LOCATION L0003613     VOLUME   445021.066 3759715.066 198.86
   LOCATION L0003614     VOLUME   445029.315 3759717.462 198.88
   LOCATION L0003615     VOLUME   445037.564 3759719.858 198.91
   LOCATION L0003616     VOLUME   445045.813 3759722.254 199.04
   LOCATION L0003617     VOLUME   445054.062 3759724.650 199.17
   LOCATION L0003618     VOLUME   445062.311 3759727.046 199.31
   LOCATION L0003619     VOLUME   445070.561 3759729.442 199.44
   LOCATION L0003620     VOLUME   445078.810 3759731.837 199.58
   LOCATION L0003621     VOLUME   445087.059 3759734.233 199.71
   LOCATION L0003622     VOLUME   445095.061 3759737.309 199.85
   LOCATION L0003623     VOLUME   445102.919 3759740.777 199.99
   LOCATION L0003624     VOLUME   445110.778 3759744.245 200.13
   LOCATION L0003625     VOLUME   445118.637 3759747.713 200.16
   LOCATION L0003626     VOLUME   445126.496 3759751.181 200.10
   LOCATION L0003627     VOLUME   445134.354 3759754.649 200.04
   LOCATION L0003628     VOLUME   445142.213 3759758.118 199.97
   LOCATION L0003629     VOLUME   445150.072 3759761.586 199.91
   LOCATION L0003630     VOLUME   445157.931 3759765.054 199.85
   LOCATION L0003631     VOLUME   445165.789 3759768.522 199.78
   LOCATION L0003632     VOLUME   445173.648 3759771.990 199.72
   LOCATION L0003633     VOLUME   445181.507 3759775.458 199.65
** END OF LINE VOLUME SOURCE ID = SLINE8
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE9
** DESCRSRC ON-SITE TRAVEL BUILDING 2
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 6.473E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 9
** 444818.997, 3759562.404, 196.01, 3.49, 4.00
** 444818.997, 3759594.760, 196.82, 3.49, 4.00
** 444810.253, 3759626.678, 197.00, 3.49, 4.00
** 444810.253, 3759635.422, 197.00, 3.49, 4.00
** 444855.725, 3759655.972, 197.60, 3.49, 4.00
** 444941.422, 3759676.085, 198.29, 3.49, 4.00
** 444958.912, 3759679.583, 198.46, 3.49, 4.00
** 444963.721, 3759679.583, 198.47, 3.49, 4.00
** 444969.405, 3759606.565, 197.92, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0003634     VOLUME   444818.997 3759566.699 196.41
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   LOCATION L0003635     VOLUME   444818.997 3759575.289 196.50
   LOCATION L0003636     VOLUME   444818.997 3759583.879 196.59
   LOCATION L0003637     VOLUME   444818.997 3759592.469 196.69
   LOCATION L0003638     VOLUME   444817.333 3759600.835 196.75
   LOCATION L0003639     VOLUME   444815.063 3759609.120 196.81
   LOCATION L0003640     VOLUME   444812.793 3759617.405 196.87
   LOCATION L0003641     VOLUME   444810.523 3759625.689 196.93
   LOCATION L0003642     VOLUME   444810.253 3759634.243 197.02
   LOCATION L0003643     VOLUME   444817.006 3759638.474 197.15
   LOCATION L0003644     VOLUME   444824.834 3759642.012 197.28
   LOCATION L0003645     VOLUME   444832.661 3759645.549 197.40
   LOCATION L0003646     VOLUME   444840.489 3759649.087 197.52
   LOCATION L0003647     VOLUME   444848.317 3759652.624 197.62
   LOCATION L0003648     VOLUME   444856.173 3759656.077 197.72
   LOCATION L0003649     VOLUME   444864.536 3759658.040 197.81
   LOCATION L0003650     VOLUME   444872.899 3759660.003 197.90
   LOCATION L0003651     VOLUME   444881.262 3759661.965 197.98
   LOCATION L0003652     VOLUME   444889.625 3759663.928 198.02
   LOCATION L0003653     VOLUME   444897.987 3759665.891 198.06
   LOCATION L0003654     VOLUME   444906.350 3759667.854 198.10
   LOCATION L0003655     VOLUME   444914.713 3759669.816 198.15
   LOCATION L0003656     VOLUME   444923.076 3759671.779 198.20
   LOCATION L0003657     VOLUME   444931.438 3759673.742 198.25
   LOCATION L0003658     VOLUME   444939.801 3759675.704 198.31
   LOCATION L0003659     VOLUME   444948.213 3759677.443 198.37
   LOCATION L0003660     VOLUME   444956.636 3759679.127 198.44
   LOCATION L0003661     VOLUME   444963.835 3759678.128 198.45
   LOCATION L0003662     VOLUME   444964.501 3759669.564 198.36
   LOCATION L0003663     VOLUME   444965.168 3759660.999 198.27
   LOCATION L0003664     VOLUME   444965.835 3759652.435 198.17
   LOCATION L0003665     VOLUME   444966.501 3759643.871 198.08
   LOCATION L0003666     VOLUME   444967.168 3759635.307 197.99
   LOCATION L0003667     VOLUME   444967.835 3759626.743 197.90
   LOCATION L0003668     VOLUME   444968.501 3759618.179 197.80
   LOCATION L0003669     VOLUME   444969.168 3759609.615 197.71
** END OF LINE VOLUME SOURCE ID = SLINE9
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE10
** DESCRSRC ON-SITE TRAVEL BUILDING 3
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.865E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 7
** 444720.183, 3759606.128, 196.70, 3.49, 4.00
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** 444769.153, 3759624.054, 196.86, 3.49, 4.00
** 444774.837, 3759624.054, 196.88, 3.49, 4.00
** 444781.395, 3759617.058, 196.95, 3.49, 4.00
** 444795.387, 3759598.257, 196.81, 3.49, 4.00
** 444801.508, 3759581.643, 196.51, 3.49, 4.00
** 444816.811, 3759562.404, 196.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003670     VOLUME   444724.216 3759607.604 196.61
   LOCATION L0003671     VOLUME   444732.282 3759610.557 196.71
   LOCATION L0003672     VOLUME   444740.349 3759613.510 196.74
   LOCATION L0003673     VOLUME   444748.415 3759616.463 196.77
   LOCATION L0003674     VOLUME   444756.482 3759619.416 196.80
   LOCATION L0003675     VOLUME   444764.548 3759622.369 196.84
   LOCATION L0003676     VOLUME   444772.840 3759624.054 196.85
   LOCATION L0003677     VOLUME   444779.346 3759619.244 196.80
   LOCATION L0003678     VOLUME   444784.735 3759612.571 196.73
   LOCATION L0003679     VOLUME   444789.863 3759605.680 196.66
   LOCATION L0003680     VOLUME   444794.991 3759598.789 196.58
   LOCATION L0003681     VOLUME   444798.127 3759590.818 196.50
   LOCATION L0003682     VOLUME   444801.097 3759582.758 196.41
   LOCATION L0003683     VOLUME   444806.115 3759575.850 196.34
   LOCATION L0003684     VOLUME   444811.463 3759569.128 196.34
   LOCATION L0003685     VOLUME   444816.810 3759562.405 196.33
** END OF LINE VOLUME SOURCE ID = SLINE10
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE11
** DESCRSRC ON-SITE TRAVEL BUILDING 4
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 6.833E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 6
** 444628.169, 3759460.542, 194.81, 3.49, 4.00
** 444575.761, 3759528.933, 194.95, 3.49, 4.00
** 444587.655, 3759541.942, 194.98, 3.49, 4.00
** 444686.152, 3759592.119, 195.95, 3.49, 4.00
** 444696.188, 3759593.978, 196.42, 3.49, 4.00
** 444739.304, 3759526.331, 195.88, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003686     VOLUME   444625.557 3759463.951 194.70
   LOCATION L0003687     VOLUME   444620.332 3759470.769 194.67
   LOCATION L0003688     VOLUME   444615.107 3759477.588 194.65
   LOCATION L0003689     VOLUME   444609.882 3759484.406 194.64
   LOCATION L0003690     VOLUME   444604.657 3759491.224 194.64
   LOCATION L0003691     VOLUME   444599.432 3759498.043 194.65
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   LOCATION L0003692     VOLUME   444594.207 3759504.861 194.67
   LOCATION L0003693     VOLUME   444588.983 3759511.679 194.70
   LOCATION L0003694     VOLUME   444583.758 3759518.497 194.74
   LOCATION L0003695     VOLUME   444578.533 3759525.316 194.79
   LOCATION L0003696     VOLUME   444578.483 3759531.909 194.85
   LOCATION L0003697     VOLUME   444584.279 3759538.249 194.93
   LOCATION L0003698     VOLUME   444590.851 3759543.570 194.98
   LOCATION L0003699     VOLUME   444598.505 3759547.469 195.02
   LOCATION L0003700     VOLUME   444606.159 3759551.368 195.06
   LOCATION L0003701     VOLUME   444613.813 3759555.267 195.10
   LOCATION L0003702     VOLUME   444621.467 3759559.166 195.14
   LOCATION L0003703     VOLUME   444629.121 3759563.066 195.19
   LOCATION L0003704     VOLUME   444636.775 3759566.965 195.23
   LOCATION L0003705     VOLUME   444644.429 3759570.864 195.27
   LOCATION L0003706     VOLUME   444652.083 3759574.763 195.32
   LOCATION L0003707     VOLUME   444659.737 3759578.663 195.46
   LOCATION L0003708     VOLUME   444667.391 3759582.562 195.60
   LOCATION L0003709     VOLUME   444675.045 3759586.461 195.74
   LOCATION L0003710     VOLUME   444682.699 3759590.360 195.88
   LOCATION L0003711     VOLUME   444690.788 3759592.978 196.02
   LOCATION L0003712     VOLUME   444697.853 3759591.365 196.09
   LOCATION L0003713     VOLUME   444702.470 3759584.121 196.08
   LOCATION L0003714     VOLUME   444707.087 3759576.878 196.06
   LOCATION L0003715     VOLUME   444711.704 3759569.634 196.04
   LOCATION L0003716     VOLUME   444716.321 3759562.390 196.02
   LOCATION L0003717     VOLUME   444720.938 3759555.146 196.00
   LOCATION L0003718     VOLUME   444725.555 3759547.903 195.99
   LOCATION L0003719     VOLUME   444730.171 3759540.659 195.95
   LOCATION L0003720     VOLUME   444734.788 3759533.415 195.87
** END OF LINE VOLUME SOURCE ID = SLINE11
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE12
** DESCRSRC ON-SITE TRAVEL BUILDING 5
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 1.12E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 444552.716, 3759392.523, 193.42, 3.49, 4.00
** 444515.176, 3759441.214, 193.93, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003721     VOLUME   444550.094 3759395.925 193.37
   LOCATION L0003722     VOLUME   444544.849 3759402.727 193.45
   LOCATION L0003723     VOLUME   444539.604 3759409.530 193.52
   LOCATION L0003724     VOLUME   444534.359 3759416.333 193.59
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   LOCATION L0003725     VOLUME   444529.114 3759423.136 193.67
   LOCATION L0003726     VOLUME   444523.869 3759429.939 193.74
   LOCATION L0003727     VOLUME   444518.624 3759436.742 193.81
** END OF LINE VOLUME SOURCE ID = SLINE12
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE13
** DESCRSRC ON-SITE TRAVEL BUILDING 6
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 8.02E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 8
** 444761.330, 3759481.812, 195.39, 3.49, 4.00
** 444779.656, 3759444.845, 194.95, 3.49, 4.00
** 444796.717, 3759400.611, 195.05, 3.49, 4.00
** 444793.874, 3759390.817, 195.04, 3.49, 4.00
** 444739.845, 3759359.221, 194.02, 3.49, 4.00
** 444686.765, 3759341.528, 193.83, 3.49, 4.00
** 444620.730, 3759343.739, 193.63, 3.49, 4.00
** 444587.871, 3759354.166, 193.03, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003728     VOLUME   444763.238 3759477.964 195.27
   LOCATION L0003729     VOLUME   444767.053 3759470.268 195.19
   LOCATION L0003730     VOLUME   444770.869 3759462.571 195.11
   LOCATION L0003731     VOLUME   444774.684 3759454.875 195.02
   LOCATION L0003732     VOLUME   444778.499 3759447.179 194.98
   LOCATION L0003733     VOLUME   444781.810 3759439.261 194.96
   LOCATION L0003734     VOLUME   444784.901 3759431.246 194.94
   LOCATION L0003735     VOLUME   444787.992 3759423.232 194.93
   LOCATION L0003736     VOLUME   444791.084 3759415.217 194.93
   LOCATION L0003737     VOLUME   444794.175 3759407.203 194.93
   LOCATION L0003738     VOLUME   444796.292 3759399.147 194.94
   LOCATION L0003739     VOLUME   444793.897 3759390.897 194.91
   LOCATION L0003740     VOLUME   444786.531 3759386.523 194.83
   LOCATION L0003741     VOLUME   444779.116 3759382.186 194.75
   LOCATION L0003742     VOLUME   444771.701 3759377.850 194.65
   LOCATION L0003743     VOLUME   444764.286 3759373.514 194.55
   LOCATION L0003744     VOLUME   444756.871 3759369.177 194.44
   LOCATION L0003745     VOLUME   444749.456 3759364.841 194.32
   LOCATION L0003746     VOLUME   444742.040 3759360.505 194.19
   LOCATION L0003747     VOLUME   444734.108 3759357.309 194.05
   LOCATION L0003748     VOLUME   444725.959 3759354.592 193.94
   LOCATION L0003749     VOLUME   444717.810 3759351.876 193.91
   LOCATION L0003750     VOLUME   444709.661 3759349.160 193.88
   LOCATION L0003751     VOLUME   444701.512 3759346.443 193.85
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   LOCATION L0003752     VOLUME   444693.363 3759343.727 193.82
   LOCATION L0003753     VOLUME   444685.130 3759341.582 193.79
   LOCATION L0003754     VOLUME   444676.545 3759341.870 193.80
   LOCATION L0003755     VOLUME   444667.960 3759342.157 193.80
   LOCATION L0003756     VOLUME   444659.375 3759342.445 193.80
   LOCATION L0003757     VOLUME   444650.790 3759342.733 193.80
   LOCATION L0003758     VOLUME   444642.204 3759343.020 193.70
   LOCATION L0003759     VOLUME   444633.619 3759343.308 193.59
   LOCATION L0003760     VOLUME   444625.034 3759343.595 193.48
   LOCATION L0003761     VOLUME   444616.647 3759345.035 193.39
   LOCATION L0003762     VOLUME   444608.459 3759347.633 193.31
   LOCATION L0003763     VOLUME   444600.272 3759350.231 193.23
   LOCATION L0003764     VOLUME   444592.084 3759352.829 193.15
** END OF LINE VOLUME SOURCE ID = SLINE13
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE14
** DESCRSRC ON-SITE TRAVEL BUILDING 7
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00007077
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 10
** 444761.206, 3759481.762, 195.39, 0.00, 4.00
** 444782.767, 3759434.552, 195.03, 0.00, 4.00
** 444797.264, 3759389.944, 195.04, 0.00, 4.00
** 444808.788, 3759368.384, 194.98, 0.00, 4.00
** 444835.552, 3759361.693, 194.86, 0.00, 4.00
** 444885.364, 3759363.552, 194.96, 0.00, 4.00
** 445045.208, 3759362.436, 196.01, 0.00, 4.00
** 445126.616, 3759359.834, 196.91, 0.00, 4.00
** 445136.920, 3759347.351, 196.71, 0.00, 4.00
** 445187.580, 3759335.300, 195.86, 0.00, 4.00
** ----------------------------------------------------------------------
   LOCATION L0003765     VOLUME   444762.990 3759477.855 195.27
   LOCATION L0003766     VOLUME   444766.559 3759470.041 195.19
   LOCATION L0003767     VOLUME   444770.127 3759462.227 195.10
   LOCATION L0003768     VOLUME   444773.696 3759454.414 195.02
   LOCATION L0003769     VOLUME   444777.264 3759446.600 194.98
   LOCATION L0003770     VOLUME   444780.833 3759438.786 194.95
   LOCATION L0003771     VOLUME   444783.983 3759430.809 194.94
   LOCATION L0003772     VOLUME   444786.638 3759422.640 194.92
   LOCATION L0003773     VOLUME   444789.293 3759414.471 194.92
   LOCATION L0003774     VOLUME   444791.948 3759406.301 194.92
   LOCATION L0003775     VOLUME   444794.603 3759398.132 194.92
   LOCATION L0003776     VOLUME   444797.258 3759389.963 194.93
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   LOCATION L0003777     VOLUME   444801.304 3759382.385 194.97
   LOCATION L0003778     VOLUME   444805.353 3759374.810 195.00
   LOCATION L0003779     VOLUME   444810.053 3759368.068 195.01
   LOCATION L0003780     VOLUME   444818.386 3759365.984 195.01
   LOCATION L0003781     VOLUME   444826.720 3759363.901 195.01
   LOCATION L0003782     VOLUME   444835.053 3759361.818 195.01
   LOCATION L0003783     VOLUME   444843.622 3759361.994 195.01
   LOCATION L0003784     VOLUME   444852.206 3759362.314 195.02
   LOCATION L0003785     VOLUME   444860.790 3759362.635 195.02
   LOCATION L0003786     VOLUME   444869.374 3759362.955 195.03
   LOCATION L0003787     VOLUME   444877.959 3759363.275 195.04
   LOCATION L0003788     VOLUME   444886.543 3759363.543 195.04
   LOCATION L0003789     VOLUME   444895.133 3759363.483 195.04
   LOCATION L0003790     VOLUME   444903.723 3759363.423 195.04
   LOCATION L0003791     VOLUME   444912.313 3759363.364 195.04
   LOCATION L0003792     VOLUME   444920.902 3759363.304 195.04
   LOCATION L0003793     VOLUME   444929.492 3759363.244 195.04
   LOCATION L0003794     VOLUME   444938.082 3759363.184 195.04
   LOCATION L0003795     VOLUME   444946.672 3759363.124 195.04
   LOCATION L0003796     VOLUME   444955.262 3759363.064 195.04
   LOCATION L0003797     VOLUME   444963.851 3759363.004 195.11
   LOCATION L0003798     VOLUME   444972.441 3759362.944 195.22
   LOCATION L0003799     VOLUME   444981.031 3759362.884 195.33
   LOCATION L0003800     VOLUME   444989.621 3759362.824 195.45
   LOCATION L0003801     VOLUME   444998.211 3759362.764 195.56
   LOCATION L0003802     VOLUME   445006.800 3759362.704 195.67
   LOCATION L0003803     VOLUME   445015.390 3759362.644 195.78
   LOCATION L0003804     VOLUME   445023.980 3759362.584 195.89
   LOCATION L0003805     VOLUME   445032.570 3759362.525 196.00
   LOCATION L0003806     VOLUME   445041.160 3759362.465 196.11
   LOCATION L0003807     VOLUME   445049.747 3759362.291 196.22
   LOCATION L0003808     VOLUME   445058.333 3759362.017 196.33
   LOCATION L0003809     VOLUME   445066.918 3759361.742 196.44
   LOCATION L0003810     VOLUME   445075.504 3759361.468 196.55
   LOCATION L0003811     VOLUME   445084.090 3759361.194 196.66
   LOCATION L0003812     VOLUME   445092.675 3759360.919 196.77
   LOCATION L0003813     VOLUME   445101.261 3759360.645 196.88
   LOCATION L0003814     VOLUME   445109.846 3759360.370 196.99
   LOCATION L0003815     VOLUME   445118.432 3759360.096 196.94
   LOCATION L0003816     VOLUME   445126.872 3759359.525 196.82
   LOCATION L0003817     VOLUME   445132.340 3759352.900 196.68
   LOCATION L0003818     VOLUME   445138.277 3759347.028 196.54
   LOCATION L0003819     VOLUME   445146.634 3759345.040 196.41
   LOCATION L0003820     VOLUME   445154.991 3759343.052 196.28
   LOCATION L0003821     VOLUME   445163.348 3759341.064 196.15
   LOCATION L0003822     VOLUME   445171.705 3759339.076 196.03
   LOCATION L0003823     VOLUME   445180.061 3759337.089 195.90
** END OF LINE VOLUME SOURCE ID = SLINE14
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** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE15
** DESCRSRC 5% INBOUND DWY 6
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 8.576E-08
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 445197.593, 3759805.084, 199.95, 3.49, 4.00
** 445199.043, 3759776.073, 199.62, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0003824     VOLUME   445197.807 3759800.795 199.72
   LOCATION L0003825     VOLUME   445198.236 3759792.215 199.62
   LOCATION L0003826     VOLUME   445198.665 3759783.636 199.52
** END OF LINE VOLUME SOURCE ID = SLINE15
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE16
** DESCRSRC 15% INBOUND DWY 7
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.433E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 6
** 445196.867, 3759804.359, 199.95, 3.49, 4.00
** 445219.939, 3759711.959, 198.72, 3.49, 4.00
** 445218.329, 3759571.306, 197.32, 3.49, 4.00
** 445216.720, 3759545.879, 196.80, 3.49, 4.00
** 445217.958, 3759334.315, 195.41, 3.49, 4.00
** 445191.242, 3759333.028, 195.81, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0003827     VOLUME   445197.908 3759800.192 199.71
   LOCATION L0003828     VOLUME   445199.989 3759791.858 199.59
   LOCATION L0003829     VOLUME   445202.070 3759783.524 199.48
   LOCATION L0003830     VOLUME   445204.151 3759775.189 199.36
   LOCATION L0003831     VOLUME   445206.232 3759766.855 199.24
   LOCATION L0003832     VOLUME   445208.312 3759758.521 199.12
   LOCATION L0003833     VOLUME   445210.393 3759750.187 199.01
   LOCATION L0003834     VOLUME   445212.474 3759741.853 198.89
   LOCATION L0003835     VOLUME   445214.555 3759733.519 198.77
   LOCATION L0003836     VOLUME   445216.636 3759725.185 198.65
   LOCATION L0003837     VOLUME   445218.717 3759716.850 198.53
   LOCATION L0003838     VOLUME   445219.898 3759708.411 198.43
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   LOCATION L0003839     VOLUME   445219.800 3759699.821 198.33
   LOCATION L0003840     VOLUME   445219.701 3759691.232 198.24
   LOCATION L0003841     VOLUME   445219.603 3759682.643 198.15
   LOCATION L0003842     VOLUME   445219.505 3759674.053 198.06
   LOCATION L0003843     VOLUME   445219.407 3759665.464 197.97
   LOCATION L0003844     VOLUME   445219.308 3759656.874 197.87
   LOCATION L0003845     VOLUME   445219.210 3759648.285 197.78
   LOCATION L0003846     VOLUME   445219.112 3759639.695 197.69
   LOCATION L0003847     VOLUME   445219.013 3759631.106 197.60
   LOCATION L0003848     VOLUME   445218.915 3759622.517 197.50
   LOCATION L0003849     VOLUME   445218.817 3759613.927 197.41
   LOCATION L0003850     VOLUME   445218.719 3759605.338 197.32
   LOCATION L0003851     VOLUME   445218.620 3759596.748 197.23
   LOCATION L0003852     VOLUME   445218.522 3759588.159 197.13
   LOCATION L0003853     VOLUME   445218.424 3759579.569 197.04
   LOCATION L0003854     VOLUME   445218.309 3759570.981 196.95
   LOCATION L0003855     VOLUME   445217.766 3759562.408 196.86
   LOCATION L0003856     VOLUME   445217.223 3759553.835 196.78
   LOCATION L0003857     VOLUME   445216.724 3759545.261 196.69
   LOCATION L0003858     VOLUME   445216.774 3759536.671 196.60
   LOCATION L0003859     VOLUME   445216.824 3759528.081 196.50
   LOCATION L0003860     VOLUME   445216.874 3759519.491 196.41
   LOCATION L0003861     VOLUME   445216.925 3759510.901 196.31
   LOCATION L0003862     VOLUME   445216.975 3759502.311 196.22
   LOCATION L0003863     VOLUME   445217.025 3759493.722 196.12
   LOCATION L0003864     VOLUME   445217.075 3759485.132 196.03
   LOCATION L0003865     VOLUME   445217.126 3759476.542 195.94
   LOCATION L0003866     VOLUME   445217.176 3759467.952 195.84
   LOCATION L0003867     VOLUME   445217.226 3759459.362 195.75
   LOCATION L0003868     VOLUME   445217.277 3759450.772 195.65
   LOCATION L0003869     VOLUME   445217.327 3759442.183 195.61
   LOCATION L0003870     VOLUME   445217.377 3759433.593 195.58
   LOCATION L0003871     VOLUME   445217.427 3759425.003 195.54
   LOCATION L0003872     VOLUME   445217.478 3759416.413 195.51
   LOCATION L0003873     VOLUME   445217.528 3759407.823 195.47
   LOCATION L0003874     VOLUME   445217.578 3759399.233 195.44
   LOCATION L0003875     VOLUME   445217.628 3759390.643 195.40
   LOCATION L0003876     VOLUME   445217.679 3759382.054 195.37
   LOCATION L0003877     VOLUME   445217.729 3759373.464 195.33
   LOCATION L0003878     VOLUME   445217.779 3759364.874 195.29
   LOCATION L0003879     VOLUME   445217.829 3759356.284 195.25
   LOCATION L0003880     VOLUME   445217.880 3759347.694 195.15
   LOCATION L0003881     VOLUME   445217.930 3759339.104 195.06
   LOCATION L0003882     VOLUME   445214.162 3759334.132 195.10
   LOCATION L0003883     VOLUME   445205.582 3759333.719 195.32
   LOCATION L0003884     VOLUME   445197.001 3759333.305 195.54
** END OF LINE VOLUME SOURCE ID = SLINE16
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** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE17
** DESCRSRC 20% INBOUND ON LIMONITE
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 7.182E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 7
** 445195.164, 3759815.181, 199.99, 3.49, 4.00
** 445211.814, 3759752.281, 199.25, 3.49, 4.00
** 445219.214, 3759717.748, 198.75, 3.49, 4.00
** 445215.514, 3759599.347, 197.62, 3.49, 4.00
** 445132.880, 3759599.964, 198.53, 3.49, 4.00
** 444970.079, 3759585.780, 197.80, 3.49, 4.00
** 444831.945, 3759551.863, 196.02, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0003885     VOLUME   445196.263 3759811.029 199.85
   LOCATION L0003886     VOLUME   445198.461 3759802.725 199.73
   LOCATION L0003887     VOLUME   445200.659 3759794.421 199.61
   LOCATION L0003888     VOLUME   445202.857 3759786.117 199.49
   LOCATION L0003889     VOLUME   445205.055 3759777.813 199.38
   LOCATION L0003890     VOLUME   445207.253 3759769.509 199.26
   LOCATION L0003891     VOLUME   445209.451 3759761.205 199.14
   LOCATION L0003892     VOLUME   445211.649 3759752.901 199.02
   LOCATION L0003893     VOLUME   445213.479 3759744.509 198.90
   LOCATION L0003894     VOLUME   445215.279 3759736.110 198.79
   LOCATION L0003895     VOLUME   445217.079 3759727.710 198.67
   LOCATION L0003896     VOLUME   445218.879 3759719.311 198.56
   LOCATION L0003897     VOLUME   445218.995 3759710.760 198.46
   LOCATION L0003898     VOLUME   445218.727 3759702.174 198.37
   LOCATION L0003899     VOLUME   445218.459 3759693.588 198.28
   LOCATION L0003900     VOLUME   445218.190 3759685.003 198.19
   LOCATION L0003901     VOLUME   445217.922 3759676.417 198.10
   LOCATION L0003902     VOLUME   445217.654 3759667.831 198.01
   LOCATION L0003903     VOLUME   445217.385 3759659.245 197.92
   LOCATION L0003904     VOLUME   445217.117 3759650.659 197.83
   LOCATION L0003905     VOLUME   445216.849 3759642.074 197.74
   LOCATION L0003906     VOLUME   445216.581 3759633.488 197.65
   LOCATION L0003907     VOLUME   445216.312 3759624.902 197.56
   LOCATION L0003908     VOLUME   445216.044 3759616.316 197.47
   LOCATION L0003909     VOLUME   445215.776 3759607.730 197.38
   LOCATION L0003910     VOLUME   445215.311 3759599.349 197.30
   LOCATION L0003911     VOLUME   445206.721 3759599.413 197.41
   LOCATION L0003912     VOLUME   445198.132 3759599.477 197.52
   LOCATION L0003913     VOLUME   445189.542 3759599.541 197.63
   LOCATION L0003914     VOLUME   445180.952 3759599.605 197.74
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   LOCATION L0003915     VOLUME   445172.362 3759599.669 197.86
   LOCATION L0003916     VOLUME   445163.773 3759599.733 197.97
   LOCATION L0003917     VOLUME   445155.183 3759599.797 198.08
   LOCATION L0003918     VOLUME   445146.593 3759599.861 198.19
   LOCATION L0003919     VOLUME   445138.003 3759599.925 198.30
   LOCATION L0003920     VOLUME   445129.426 3759599.663 198.41
   LOCATION L0003921     VOLUME   445120.869 3759598.917 198.51
   LOCATION L0003922     VOLUME   445112.311 3759598.172 198.58
   LOCATION L0003923     VOLUME   445103.754 3759597.426 198.46
   LOCATION L0003924     VOLUME   445095.196 3759596.681 198.34
   LOCATION L0003925     VOLUME   445086.639 3759595.935 198.22
   LOCATION L0003926     VOLUME   445078.081 3759595.190 198.10
   LOCATION L0003927     VOLUME   445069.523 3759594.444 197.98
   LOCATION L0003928     VOLUME   445060.966 3759593.698 197.86
   LOCATION L0003929     VOLUME   445052.408 3759592.953 197.74
   LOCATION L0003930     VOLUME   445043.851 3759592.207 197.62
   LOCATION L0003931     VOLUME   445035.293 3759591.462 197.52
   LOCATION L0003932     VOLUME   445026.735 3759590.716 197.51
   LOCATION L0003933     VOLUME   445018.178 3759589.971 197.50
   LOCATION L0003934     VOLUME   445009.620 3759589.225 197.49
   LOCATION L0003935     VOLUME   445001.063 3759588.480 197.48
   LOCATION L0003936     VOLUME   444992.505 3759587.734 197.48
   LOCATION L0003937     VOLUME   444983.947 3759586.989 197.47
   LOCATION L0003938     VOLUME   444975.390 3759586.243 197.46
   LOCATION L0003939     VOLUME   444966.914 3759585.003 197.44
   LOCATION L0003940     VOLUME   444958.572 3759582.955 197.42
   LOCATION L0003941     VOLUME   444950.230 3759580.906 197.40
   LOCATION L0003942     VOLUME   444941.887 3759578.858 197.38
   LOCATION L0003943     VOLUME   444933.545 3759576.810 197.35
   LOCATION L0003944     VOLUME   444925.203 3759574.762 197.33
   LOCATION L0003945     VOLUME   444916.861 3759572.713 197.31
   LOCATION L0003946     VOLUME   444908.519 3759570.665 197.29
   LOCATION L0003947     VOLUME   444900.176 3759568.617 197.26
   LOCATION L0003948     VOLUME   444891.834 3759566.568 197.24
   LOCATION L0003949     VOLUME   444883.492 3759564.520 197.22
   LOCATION L0003950     VOLUME   444875.150 3759562.472 197.10
   LOCATION L0003951     VOLUME   444866.807 3759560.423 196.97
   LOCATION L0003952     VOLUME   444858.465 3759558.375 196.83
   LOCATION L0003953     VOLUME   444850.123 3759556.327 196.70
   LOCATION L0003954     VOLUME   444841.781 3759554.278 196.57
   LOCATION L0003955     VOLUME   444833.439 3759552.230 196.44
** END OF LINE VOLUME SOURCE ID = SLINE17
** ----------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE18
** DESCRSRC 40% INBOUND ON LIMONITE
** PREFIX
** LENGTH OF SIDE = 8.59
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** CONFIGURATION = ADJACENT
** EMISSION RATE = 9.279E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 7
** 445219.047, 3759600.454, 197.60, 3.49, 4.00
** 445189.692, 3759599.405, 197.78, 3.49, 4.00
** 445131.507, 3759600.454, 198.54, 3.49, 4.00
** 445049.733, 3759592.591, 197.73, 3.49, 4.00
** 444968.483, 3759587.349, 197.82, 3.49, 4.00
** 444927.596, 3759575.293, 197.22, 3.49, 4.00
** 444832.193, 3759551.180, 196.02, 3.49, 4.00
** ------------------------------------------------------------------
   LOCATION L0003956     VOLUME   445214.755 3759600.300 197.32
   LOCATION L0003957     VOLUME   445206.170 3759599.994 197.42
   LOCATION L0003958     VOLUME   445197.586 3759599.687 197.53
   LOCATION L0003959     VOLUME   445189.001 3759599.418 197.64
   LOCATION L0003960     VOLUME   445180.412 3759599.573 197.75
   LOCATION L0003961     VOLUME   445171.824 3759599.727 197.86
   LOCATION L0003962     VOLUME   445163.235 3759599.882 197.98
   LOCATION L0003963     VOLUME   445154.647 3759600.037 198.09
   LOCATION L0003964     VOLUME   445146.058 3759600.192 198.20
   LOCATION L0003965     VOLUME   445137.469 3759600.346 198.31
   LOCATION L0003966     VOLUME   445128.892 3759600.202 198.42
   LOCATION L0003967     VOLUME   445120.342 3759599.380 198.53
   LOCATION L0003968     VOLUME   445111.791 3759598.558 198.57
   LOCATION L0003969     VOLUME   445103.241 3759597.736 198.45
   LOCATION L0003970     VOLUME   445094.690 3759596.914 198.33
   LOCATION L0003971     VOLUME   445086.140 3759596.092 198.21
   LOCATION L0003972     VOLUME   445077.589 3759595.269 198.09
   LOCATION L0003973     VOLUME   445069.038 3759594.447 197.97
   LOCATION L0003974     VOLUME   445060.488 3759593.625 197.85
   LOCATION L0003975     VOLUME   445051.937 3759592.803 197.73
   LOCATION L0003976     VOLUME   445043.371 3759592.180 197.61
   LOCATION L0003977     VOLUME   445034.799 3759591.627 197.52
   LOCATION L0003978     VOLUME   445026.226 3759591.074 197.51
   LOCATION L0003979     VOLUME   445017.654 3759590.521 197.51
   LOCATION L0003980     VOLUME   445009.082 3759589.968 197.50
   LOCATION L0003981     VOLUME   445000.510 3759589.415 197.49
   LOCATION L0003982     VOLUME   444991.938 3759588.862 197.49
   LOCATION L0003983     VOLUME   444983.365 3759588.309 197.48
   LOCATION L0003984     VOLUME   444974.793 3759587.756 197.47
   LOCATION L0003985     VOLUME   444966.309 3759586.708 197.46
   LOCATION L0003986     VOLUME   444958.070 3759584.278 197.44
   LOCATION L0003987     VOLUME   444949.830 3759581.849 197.41
   LOCATION L0003988     VOLUME   444941.591 3759579.419 197.38
   LOCATION L0003989     VOLUME   444933.352 3759576.990 197.36
   LOCATION L0003990     VOLUME   444925.086 3759574.658 197.33
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   LOCATION L0003991     VOLUME   444916.758 3759572.553 197.31
   LOCATION L0003992     VOLUME   444908.430 3759570.448 197.28
   LOCATION L0003993     VOLUME   444900.102 3759568.343 197.26
   LOCATION L0003994     VOLUME   444891.773 3759566.238 197.24
   LOCATION L0003995     VOLUME   444883.445 3759564.134 197.21
   LOCATION L0003996     VOLUME   444875.117 3759562.029 197.09
   LOCATION L0003997     VOLUME   444866.789 3759559.924 196.96
   LOCATION L0003998     VOLUME   444858.461 3759557.819 196.83
   LOCATION L0003999     VOLUME   444850.133 3759555.714 196.70
   LOCATION L0004000     VOLUME   444841.805 3759553.609 196.57
   LOCATION L0004001     VOLUME   444833.477 3759551.504 196.43
** END OF LINE VOLUME SOURCE ID = SLINE18
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE19
** DESCRSRC 20% INBOUND ON LIMONITE
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.401E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 444525.652, 3759317.153, 192.81, 3.49, 4.00
** 444642.222, 3759428.789, 194.80, 3.49, 4.00
** 444791.480, 3759516.987, 195.89, 3.49, 4.00
** 444826.636, 3759529.322, 195.97, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0004002     VOLUME   444528.754 3759320.124 192.55
   LOCATION L0004003     VOLUME   444534.958 3759326.065 192.62
   LOCATION L0004004     VOLUME   444541.162 3759332.007 192.68
   LOCATION L0004005     VOLUME   444547.366 3759337.948 192.74
   LOCATION L0004006     VOLUME   444553.570 3759343.889 192.81
   LOCATION L0004007     VOLUME   444559.774 3759349.831 192.87
   LOCATION L0004008     VOLUME   444565.978 3759355.772 192.94
   LOCATION L0004009     VOLUME   444572.182 3759361.713 193.00
   LOCATION L0004010     VOLUME   444578.385 3759367.655 193.13
   LOCATION L0004011     VOLUME   444584.589 3759373.596 193.27
   LOCATION L0004012     VOLUME   444590.793 3759379.537 193.42
   LOCATION L0004013     VOLUME   444596.997 3759385.479 193.56
   LOCATION L0004014     VOLUME   444603.201 3759391.420 193.71
   LOCATION L0004015     VOLUME   444609.405 3759397.361 193.85
   LOCATION L0004016     VOLUME   444615.609 3759403.303 194.00
   LOCATION L0004017     VOLUME   444621.813 3759409.244 194.14
   LOCATION L0004018     VOLUME   444628.017 3759415.185 194.29
   LOCATION L0004019     VOLUME   444634.221 3759421.127 194.43
   LOCATION L0004020     VOLUME   444640.425 3759427.068 194.58
   LOCATION L0004021     VOLUME   444647.475 3759431.893 194.72
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   LOCATION L0004022     VOLUME   444654.870 3759436.263 194.82
   LOCATION L0004023     VOLUME   444662.266 3759440.633 194.86
   LOCATION L0004024     VOLUME   444669.661 3759445.003 194.91
   LOCATION L0004025     VOLUME   444677.056 3759449.373 194.96
   LOCATION L0004026     VOLUME   444684.452 3759453.743 195.00
   LOCATION L0004027     VOLUME   444691.847 3759458.113 195.03
   LOCATION L0004028     VOLUME   444699.243 3759462.483 195.06
   LOCATION L0004029     VOLUME   444706.638 3759466.853 195.11
   LOCATION L0004030     VOLUME   444714.033 3759471.223 195.16
   LOCATION L0004031     VOLUME   444721.429 3759475.593 195.22
   LOCATION L0004032     VOLUME   444728.824 3759479.963 195.29
   LOCATION L0004033     VOLUME   444736.219 3759484.333 195.34
   LOCATION L0004034     VOLUME   444743.615 3759488.703 195.39
   LOCATION L0004035     VOLUME   444751.010 3759493.073 195.44
   LOCATION L0004036     VOLUME   444758.405 3759497.443 195.48
   LOCATION L0004037     VOLUME   444765.801 3759501.813 195.53
   LOCATION L0004038     VOLUME   444773.196 3759506.183 195.58
   LOCATION L0004039     VOLUME   444780.591 3759510.553 195.63
   LOCATION L0004040     VOLUME   444787.987 3759514.923 195.67
   LOCATION L0004041     VOLUME   444795.757 3759518.488 195.71
   LOCATION L0004042     VOLUME   444803.862 3759521.332 195.75
   LOCATION L0004043     VOLUME   444811.968 3759524.176 195.86
   LOCATION L0004044     VOLUME   444820.073 3759527.020 196.00
** END OF LINE VOLUME SOURCE ID = SLINE19
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE20
** DESCRSRC 20% OUTBOUND ON LIMONITE
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.401E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 444511.466, 3759328.872, 192.92, 3.49, 4.00
** 444628.036, 3759440.507, 194.77, 3.49, 4.00
** 444777.294, 3759528.706, 195.88, 3.49, 4.00
** 444812.450, 3759541.041, 196.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0004045     VOLUME   444514.568 3759331.843 192.68
   LOCATION L0004046     VOLUME   444520.772 3759337.784 192.74
   LOCATION L0004047     VOLUME   444526.976 3759343.725 192.81
   LOCATION L0004048     VOLUME   444533.180 3759349.667 192.87
   LOCATION L0004049     VOLUME   444539.384 3759355.608 192.94
   LOCATION L0004050     VOLUME   444545.588 3759361.549 193.00
   LOCATION L0004051     VOLUME   444551.792 3759367.491 193.06
   LOCATION L0004052     VOLUME   444557.996 3759373.432 193.13
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   LOCATION L0004053     VOLUME   444564.200 3759379.373 193.19
   LOCATION L0004054     VOLUME   444570.404 3759385.315 193.26
   LOCATION L0004055     VOLUME   444576.608 3759391.256 193.36
   LOCATION L0004056     VOLUME   444582.812 3759397.197 193.50
   LOCATION L0004057     VOLUME   444589.015 3759403.139 193.65
   LOCATION L0004058     VOLUME   444595.219 3759409.080 193.79
   LOCATION L0004059     VOLUME   444601.423 3759415.021 193.94
   LOCATION L0004060     VOLUME   444607.627 3759420.963 194.08
   LOCATION L0004061     VOLUME   444613.831 3759426.904 194.23
   LOCATION L0004062     VOLUME   444620.035 3759432.845 194.37
   LOCATION L0004063     VOLUME   444626.239 3759438.787 194.52
   LOCATION L0004064     VOLUME   444633.289 3759443.612 194.66
   LOCATION L0004065     VOLUME   444640.685 3759447.982 194.81
   LOCATION L0004066     VOLUME   444648.080 3759452.352 194.95
   LOCATION L0004067     VOLUME   444655.475 3759456.722 195.00
   LOCATION L0004068     VOLUME   444662.871 3759461.092 195.01
   LOCATION L0004069     VOLUME   444670.266 3759465.462 195.03
   LOCATION L0004070     VOLUME   444677.661 3759469.832 195.06
   LOCATION L0004071     VOLUME   444685.057 3759474.202 195.10
   LOCATION L0004072     VOLUME   444692.452 3759478.572 195.15
   LOCATION L0004073     VOLUME   444699.848 3759482.942 195.20
   LOCATION L0004074     VOLUME   444707.243 3759487.312 195.27
   LOCATION L0004075     VOLUME   444714.638 3759491.682 195.34
   LOCATION L0004076     VOLUME   444722.034 3759496.051 195.43
   LOCATION L0004077     VOLUME   444729.429 3759500.421 195.51
   LOCATION L0004078     VOLUME   444736.824 3759504.791 195.56
   LOCATION L0004079     VOLUME   444744.220 3759509.161 195.61
   LOCATION L0004080     VOLUME   444751.615 3759513.531 195.66
   LOCATION L0004081     VOLUME   444759.010 3759517.901 195.71
   LOCATION L0004082     VOLUME   444766.406 3759522.271 195.75
   LOCATION L0004083     VOLUME   444773.801 3759526.641 195.80
   LOCATION L0004084     VOLUME   444781.571 3759530.206 195.84
   LOCATION L0004085     VOLUME   444789.677 3759533.050 195.87
   LOCATION L0004086     VOLUME   444797.782 3759535.894 195.90
   LOCATION L0004087     VOLUME   444805.888 3759538.738 195.94
** END OF LINE VOLUME SOURCE ID = SLINE20
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE21
** DESCRSRC 75% OUTBOUND LIMONITE
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001692
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 5
** 444830.782, 3759530.083, 195.98, 3.49, 4.00
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** 444897.182, 3759552.365, 196.89, 3.49, 4.00
** 445005.916, 3759573.309, 197.47, 3.49, 4.00
** 445091.924, 3759575.983, 198.23, 3.49, 4.00
** 445206.452, 3759575.092, 197.34, 3.49, 4.00
** ----------------------------------------------------------------
   LOCATION L0004088     VOLUME   444834.854 3759531.449 196.24
   LOCATION L0004089     VOLUME   444842.998 3759534.182 196.37
   LOCATION L0004090     VOLUME   444851.141 3759536.915 196.51
   LOCATION L0004091     VOLUME   444859.285 3759539.648 196.64
   LOCATION L0004092     VOLUME   444867.429 3759542.380 196.78
   LOCATION L0004093     VOLUME   444875.572 3759545.113 196.92
   LOCATION L0004094     VOLUME   444883.716 3759547.846 197.04
   LOCATION L0004095     VOLUME   444891.860 3759550.579 197.07
   LOCATION L0004096     VOLUME   444900.104 3759552.928 197.09
   LOCATION L0004097     VOLUME   444908.539 3759554.552 197.11
   LOCATION L0004098     VOLUME   444916.974 3759556.177 197.13
   LOCATION L0004099     VOLUME   444925.409 3759557.802 197.15
   LOCATION L0004100     VOLUME   444933.844 3759559.427 197.17
   LOCATION L0004101     VOLUME   444942.279 3759561.051 197.18
   LOCATION L0004102     VOLUME   444950.714 3759562.676 197.20
   LOCATION L0004103     VOLUME   444959.149 3759564.301 197.22
   LOCATION L0004104     VOLUME   444967.584 3759565.926 197.24
   LOCATION L0004105     VOLUME   444976.019 3759567.550 197.26
   LOCATION L0004106     VOLUME   444984.454 3759569.175 197.27
   LOCATION L0004107     VOLUME   444992.889 3759570.800 197.29
   LOCATION L0004108     VOLUME   445001.324 3759572.425 197.31
   LOCATION L0004109     VOLUME   445009.827 3759573.431 197.32
   LOCATION L0004110     VOLUME   445018.413 3759573.698 197.33
   LOCATION L0004111     VOLUME   445026.999 3759573.965 197.33
   LOCATION L0004112     VOLUME   445035.585 3759574.232 197.33
   LOCATION L0004113     VOLUME   445044.171 3759574.499 197.43
   LOCATION L0004114     VOLUME   445052.757 3759574.766 197.55
   LOCATION L0004115     VOLUME   445061.343 3759575.033 197.66
   LOCATION L0004116     VOLUME   445069.928 3759575.299 197.78
   LOCATION L0004117     VOLUME   445078.514 3759575.566 197.89
   LOCATION L0004118     VOLUME   445087.100 3759575.833 198.01
   LOCATION L0004119     VOLUME   445095.688 3759575.954 198.12
   LOCATION L0004120     VOLUME   445104.277 3759575.887 198.23
   LOCATION L0004121     VOLUME   445112.867 3759575.820 198.34
   LOCATION L0004122     VOLUME   445121.457 3759575.753 198.25
   LOCATION L0004123     VOLUME   445130.047 3759575.687 198.14
   LOCATION L0004124     VOLUME   445138.636 3759575.620 198.03
   LOCATION L0004125     VOLUME   445147.226 3759575.553 197.92
   LOCATION L0004126     VOLUME   445155.816 3759575.486 197.81
   LOCATION L0004127     VOLUME   445164.406 3759575.419 197.70
   LOCATION L0004128     VOLUME   445172.995 3759575.352 197.58
   LOCATION L0004129     VOLUME   445181.585 3759575.285 197.47
   LOCATION L0004130     VOLUME   445190.175 3759575.219 197.36
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   LOCATION L0004131     VOLUME   445198.765 3759575.152 197.25
** END OF LINE VOLUME SOURCE ID = SLINE21
** ------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE22
** DESCRSRC 40% OUTBOUND
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.566E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 5
** 445199.749, 3759797.365, 199.88, 0.00, 4.00
** 445211.458, 3759742.538, 198.87, 0.00, 4.00
** 445216.464, 3759693.908, 198.64, 0.00, 4.00
** 445215.611, 3759621.330, 197.78, 0.00, 4.00
** 445213.903, 3759605.961, 197.70, 0.00, 4.00
** ------------------------------------------------------------------
   LOCATION L0004132     VOLUME   445200.646 3759793.165 199.60
   LOCATION L0004133     VOLUME   445202.440 3759784.764 199.48
   LOCATION L0004134     VOLUME   445204.234 3759776.364 199.37
   LOCATION L0004135     VOLUME   445206.028 3759767.963 199.26
   LOCATION L0004136     VOLUME   445207.822 3759759.563 199.14
   LOCATION L0004137     VOLUME   445209.616 3759751.162 199.03
   LOCATION L0004138     VOLUME   445211.411 3759742.762 198.91
   LOCATION L0004139     VOLUME   445212.315 3759734.221 198.81
   LOCATION L0004140     VOLUME   445213.194 3759725.676 198.70
   LOCATION L0004141     VOLUME   445214.074 3759717.131 198.60
   LOCATION L0004142     VOLUME   445214.953 3759708.586 198.49
   LOCATION L0004143     VOLUME   445215.833 3759700.041 198.39
   LOCATION L0004144     VOLUME   445216.436 3759691.484 198.29
   LOCATION L0004145     VOLUME   445216.335 3759682.894 198.20
   LOCATION L0004146     VOLUME   445216.234 3759674.305 198.10
   LOCATION L0004147     VOLUME   445216.133 3759665.715 198.01
   LOCATION L0004148     VOLUME   445216.032 3759657.126 197.92
   LOCATION L0004149     VOLUME   445215.931 3759648.537 197.83
   LOCATION L0004150     VOLUME   445215.830 3759639.947 197.73
   LOCATION L0004151     VOLUME   445215.728 3759631.358 197.64
   LOCATION L0004152     VOLUME   445215.627 3759622.768 197.55
   LOCATION L0004153     VOLUME   445214.821 3759614.222 197.47
** END OF LINE VOLUME SOURCE ID = SLINE22
** ------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE23
** DESCRSRC 40% OUTBOUND
** PREFIX
** LENGTH OF SIDE = 8.59
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** CONFIGURATION = ADJACENT
** EMISSION RATE = 5.82E-07
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 445205.277, 3759574.206, 197.33, 3.49, 4.00
** 445229.916, 3759574.206, 197.37, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0004154     VOLUME   445209.572 3759574.206 197.10
   LOCATION L0004155     VOLUME   445218.162 3759574.206 196.99
   LOCATION L0004156     VOLUME   445226.752 3759574.206 196.88
** END OF LINE VOLUME SOURCE ID = SLINE23
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE24
** DESCRSRC 20% INBOUND/OUTBOUND (LIMONITE EXTENSION)
** PREFIX
** LENGTH OF SIDE = 13.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00007664
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 17
** 441450.567, 3758857.552, 183.07, 3.49, 6.05
** 441629.621, 3758854.818, 184.37, 3.49, 6.05
** 441838.744, 3758853.451, 186.08, 3.49, 6.05
** 441961.758, 3758856.185, 187.21, 3.49, 6.05
** 442117.575, 3758857.552, 190.46, 3.49, 6.05
** 442390.940, 3758854.818, 190.47, 3.49, 6.05
** 442546.757, 3758858.918, 190.54, 3.49, 6.05
** 442911.698, 3758857.552, 190.50, 3.49, 6.05
** 443154.992, 3758856.185, 190.00, 3.49, 6.05
** 443552.737, 3758856.185, 188.00, 3.49, 6.05
** 443727.690, 3758863.019, 188.00, 3.49, 6.05
** 443835.669, 3758865.753, 188.00, 3.49, 6.05
** 443945.014, 3758875.320, 188.00, 3.49, 6.05
** 444027.023, 3758897.189, 188.00, 3.49, 6.05
** 444110.399, 3758931.360, 188.00, 3.49, 6.05
** 444268.951, 3759025.671, 188.95, 3.49, 6.05
** 444519.079, 3759318.170, 192.84, 3.49, 6.05
** ----------------------------------------------------------------------
   LOCATION L0004157     VOLUME   441457.066 3758857.452 183.00
   LOCATION L0004158     VOLUME   441470.065 3758857.254 183.00
   LOCATION L0004159     VOLUME   441483.063 3758857.056 183.00
   LOCATION L0004160     VOLUME   441496.062 3758856.857 183.02
   LOCATION L0004161     VOLUME   441509.060 3758856.659 183.08
   LOCATION L0004162     VOLUME   441522.059 3758856.460 183.14
   LOCATION L0004163     VOLUME   441535.057 3758856.262 183.19
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LOCATION	L0004164	VOLUME	441548.056	3758856.063 183.25
LOCATION	L0004165	VOLUME	441561.054	3758855.865 183.30
LOCATION	L0004166	VOLUME	441574.053	3758855.666 183.49
LOCATION	L0004167	VOLUME	441587.051	3758855.468 183.82
LOCATION	L0004168	VOLUME	441600.050	3758855.269 184.16
LOCATION	L0004169	VOLUME	441613.048	3758855.071 184.50
LOCATION	L0004170	VOLUME	441626.047	3758854.873 184.83
LOCATION	L0004171	VOLUME	441639.046	3758854.756 185.17
LOCATION	L0004172	VOLUME	441652.046	3758854.671 185.33
LOCATION	L0004173	VOLUME	441665.046	3758854.586 185.33
LOCATION	L0004174	VOLUME	441678.045	3758854.502 185.33
LOCATION	L0004175	VOLUME	441691.045	3758854.417 185.33
LOCATION	L0004176	VOLUME	441704.045	3758854.332 185.33
LOCATION	L0004177	VOLUME	441717.044	3758854.247 185.33
LOCATION	L0004178	VOLUME	441730.044	3758854.162 185.33
LOCATION	L0004179	VOLUME	441743.044	3758854.077 185.33
LOCATION	L0004180	VOLUME	441756.044	3758853.992 185.33
LOCATION	L0004181	VOLUME	441769.043	3758853.907 185.33
LOCATION	L0004182	VOLUME	441782.043	3758853.822 185.33
LOCATION	L0004183	VOLUME	441795.043	3758853.737 185.33
LOCATION	L0004184	VOLUME	441808.043	3758853.652 185.40
LOCATION	L0004185	VOLUME	441821.042	3758853.567 185.52
LOCATION	L0004186	VOLUME	441834.042	3758853.482 185.63
LOCATION	L0004187	VOLUME	441847.040	3758853.636 185.75
LOCATION	L0004188	VOLUME	441860.037	3758853.924 185.86
LOCATION	L0004189	VOLUME	441873.033	3758854.213 185.97
LOCATION	L0004190	VOLUME	441886.030	3758854.502 186.13
LOCATION	L0004191	VOLUME	441899.027	3758854.791 186.30
LOCATION	L0004192	VOLUME	441912.024	3758855.080 186.47
LOCATION	L0004193	VOLUME	441925.021	3758855.368 186.64
LOCATION	L0004194	VOLUME	441938.017	3758855.657 186.81
LOCATION	L0004195	VOLUME	441951.014	3758855.946 186.97
LOCATION	L0004196	VOLUME	441964.011	3758856.205 187.43
LOCATION	L0004197	VOLUME	441977.011	3758856.319 187.93
LOCATION	L0004198	VOLUME	441990.010	3758856.433 188.44
LOCATION	L0004199	VOLUME	442003.010	3758856.547 188.95
LOCATION	L0004200	VOLUME	442016.009	3758856.661 189.45
LOCATION	L0004201	VOLUME	442029.009	3758856.775 189.96
LOCATION	L0004202	VOLUME	442042.008	3758856.889 190.06
LOCATION	L0004203	VOLUME	442055.008	3758857.003 190.12
LOCATION	L0004204	VOLUME	442068.007	3758857.117 190.19
LOCATION	L0004205	VOLUME	442081.007	3758857.231 190.25
LOCATION	L0004206	VOLUME	442094.006	3758857.345 190.32
LOCATION	L0004207	VOLUME	442107.006	3758857.459 190.39
LOCATION	L0004208	VOLUME	442120.005	3758857.527 190.56
LOCATION	L0004209	VOLUME	442133.005	3758857.397 190.73
LOCATION	L0004210	VOLUME	442146.004	3758857.267 190.89
LOCATION	L0004211	VOLUME	442159.003	3758857.137 191.06

LOCATION	L0004212	VOLUME	442172.003	3758857.007	191.23
LOCATION	L0004213	VOLUME	442185.002	3758856.877	191.39
LOCATION	L0004214	VOLUME	442198.001	3758856.747	191.50
LOCATION	L0004215	VOLUME	442211.001	3758856.617	191.60
LOCATION	L0004216	VOLUME	442224.000	3758856.487	191.70
LOCATION	L0004217	VOLUME	442237.000	3758856.357	191.81
LOCATION	L0004218	VOLUME	442249.999	3758856.227	191.91
LOCATION	L0004219	VOLUME	442262.998	3758856.097	191.96
LOCATION	L0004220	VOLUME	442275.998	3758855.967	191.68
LOCATION	L0004221	VOLUME	442288.997	3758855.837	191.41
LOCATION	L0004222	VOLUME	442301.996	3758855.707	191.14
LOCATION	L0004223	VOLUME	442314.996	3758855.577	190.86
LOCATION	L0004224	VOLUME	442327.995	3758855.447	190.59
LOCATION	L0004225	VOLUME	442340.994	3758855.317	190.38
LOCATION	L0004226	VOLUME	442353.994	3758855.187	190.38
LOCATION	L0004227	VOLUME	442366.993	3758855.057	190.38
LOCATION	L0004228	VOLUME	442379.992	3758854.928	190.38
LOCATION	L0004229	VOLUME	442392.991	3758854.872	190.38
LOCATION	L0004230	VOLUME	442405.987	3758855.214	190.38
LOCATION	L0004231	VOLUME	442418.982	3758855.556	190.39
LOCATION	L0004232	VOLUME	442431.978	3758855.898	190.39
LOCATION	L0004233	VOLUME	442444.973	3758856.240	190.40
LOCATION	L0004234	VOLUME	442457.969	3758856.582	190.40
LOCATION	L0004235	VOLUME	442470.964	3758856.924	190.40
LOCATION	L0004236	VOLUME	442483.960	3758857.266	190.41
LOCATION	L0004237	VOLUME	442496.955	3758857.608	190.41
LOCATION	L0004238	VOLUME	442509.951	3758857.950	190.42
LOCATION	L0004239	VOLUME	442522.946	3758858.292	190.42
LOCATION	L0004240	VOLUME	442535.942	3758858.634	190.43
LOCATION	L0004241	VOLUME	442548.938	3758858.910	190.43
LOCATION	L0004242	VOLUME	442561.938	3758858.862	190.43
LOCATION	L0004243	VOLUME	442574.938	3758858.813	190.43
LOCATION	L0004244	VOLUME	442587.938	3758858.764	190.43
LOCATION	L0004245	VOLUME	442600.938	3758858.716	190.43
LOCATION	L0004246	VOLUME	442613.937	3758858.667	190.43
LOCATION	L0004247	VOLUME	442626.937	3758858.618	190.43
LOCATION	L0004248	VOLUME	442639.937	3758858.570	190.43
LOCATION	L0004249	VOLUME	442652.937	3758858.521	190.43
LOCATION	L0004250	VOLUME	442665.937	3758858.472	190.43
LOCATION	L0004251	VOLUME	442678.937	3758858.423	190.43
LOCATION	L0004252	VOLUME	442691.937	3758858.375	190.43
LOCATION	L0004253	VOLUME	442704.937	3758858.326	190.44
LOCATION	L0004254	VOLUME	442717.937	3758858.277	190.44
LOCATION	L0004255	VOLUME	442730.937	3758858.229	190.44
LOCATION	L0004256	VOLUME	442743.937	3758858.180	190.44
LOCATION	L0004257	VOLUME	442756.936	3758858.131	190.44
LOCATION	L0004258	VOLUME	442769.936	3758858.083	190.44
LOCATION	L0004259	VOLUME	442782.936	3758858.034	190.44

LOCATION	L0004260	VOLUME	442795.936	3758857.985 190.44
LOCATION	L0004261	VOLUME	442808.936	3758857.937 190.44
LOCATION	L0004262	VOLUME	442821.936	3758857.888 190.44
LOCATION	L0004263	VOLUME	442834.936	3758857.839 190.44
LOCATION	L0004264	VOLUME	442847.936	3758857.790 190.44
LOCATION	L0004265	VOLUME	442860.936	3758857.742 190.44
LOCATION	L0004266	VOLUME	442873.936	3758857.693 190.44
LOCATION	L0004267	VOLUME	442886.936	3758857.644 190.44
LOCATION	L0004268	VOLUME	442899.935	3758857.596 190.44
LOCATION	L0004269	VOLUME	442912.935	3758857.545 190.44
LOCATION	L0004270	VOLUME	442925.935	3758857.472 190.44
LOCATION	L0004271	VOLUME	442938.935	3758857.399 190.44
LOCATION	L0004272	VOLUME	442951.935	3758857.326 190.44
LOCATION	L0004273	VOLUME	442964.934	3758857.253 190.38
LOCATION	L0004274	VOLUME	442977.934	3758857.180 190.30
LOCATION	L0004275	VOLUME	442990.934	3758857.107 190.23
LOCATION	L0004276	VOLUME	443003.934	3758857.033 190.15
LOCATION	L0004277	VOLUME	443016.934	3758856.960 190.08
LOCATION	L0004278	VOLUME	443029.933	3758856.887 190.01
LOCATION	L0004279	VOLUME	443042.933	3758856.814 190.00
LOCATION	L0004280	VOLUME	443055.933	3758856.741 190.00
LOCATION	L0004281	VOLUME	443068.933	3758856.668 190.00
LOCATION	L0004282	VOLUME	443081.933	3758856.595 190.00
LOCATION	L0004283	VOLUME	443094.932	3758856.522 190.00
LOCATION	L0004284	VOLUME	443107.932	3758856.449 190.00
LOCATION	L0004285	VOLUME	443120.932	3758856.376 189.91
LOCATION	L0004286	VOLUME	443133.932	3758856.303 189.81
LOCATION	L0004287	VOLUME	443146.932	3758856.230 189.72
LOCATION	L0004288	VOLUME	443159.931	3758856.185 189.62
LOCATION	L0004289	VOLUME	443172.931	3758856.185 189.53
LOCATION	L0004290	VOLUME	443185.931	3758856.185 189.44
LOCATION	L0004291	VOLUME	443198.931	3758856.185 189.36
LOCATION	L0004292	VOLUME	443211.931	3758856.185 189.29
LOCATION	L0004293	VOLUME	443224.931	3758856.185 189.21
LOCATION	L0004294	VOLUME	443237.931	3758856.185 189.14
LOCATION	L0004295	VOLUME	443250.931	3758856.185 189.06
LOCATION	L0004296	VOLUME	443263.931	3758856.185 188.99
LOCATION	L0004297	VOLUME	443276.931	3758856.185 188.89
LOCATION	L0004298	VOLUME	443289.931	3758856.185 188.80
LOCATION	L0004299	VOLUME	443302.931	3758856.185 188.71
LOCATION	L0004300	VOLUME	443315.931	3758856.185 188.61
LOCATION	L0004301	VOLUME	443328.931	3758856.185 188.52
LOCATION	L0004302	VOLUME	443341.931	3758856.185 188.44
LOCATION	L0004303	VOLUME	443354.931	3758856.185 188.36
LOCATION	L0004304	VOLUME	443367.931	3758856.185 188.28
LOCATION	L0004305	VOLUME	443380.931	3758856.185 188.21
LOCATION	L0004306	VOLUME	443393.931	3758856.185 188.13
LOCATION	L0004307	VOLUME	443406.931	3758856.185 188.05

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LOCATION L0004308     VOLUME   443419.931 3758856.185 188.00
LOCATION L0004309     VOLUME   443432.931 3758856.185 188.00
LOCATION L0004310     VOLUME   443445.931 3758856.185 188.00
LOCATION L0004311     VOLUME   443458.931 3758856.185 188.00
LOCATION L0004312     VOLUME   443471.931 3758856.185 188.00
LOCATION L0004313     VOLUME   443484.931 3758856.185 188.00
LOCATION L0004314     VOLUME   443497.931 3758856.185 188.00
LOCATION L0004315     VOLUME   443510.931 3758856.185 188.00
LOCATION L0004316     VOLUME   443523.931 3758856.185 188.00
LOCATION L0004317     VOLUME   443536.931 3758856.185 188.00
LOCATION L0004318     VOLUME   443549.931 3758856.185 188.00
LOCATION L0004319     VOLUME   443562.924 3758856.583 188.00
LOCATION L0004320     VOLUME   443575.914 3758857.090 188.00
LOCATION L0004321     VOLUME   443588.904 3758857.598 188.00
LOCATION L0004322     VOLUME   443601.894 3758858.105 188.00
LOCATION L0004323     VOLUME   443614.884 3758858.612 188.00
LOCATION L0004324     VOLUME   443627.874 3758859.120 188.00
LOCATION L0004325     VOLUME   443640.864 3758859.627 188.00
LOCATION L0004326     VOLUME   443653.854 3758860.135 188.00
LOCATION L0004327     VOLUME   443666.844 3758860.642 188.00
LOCATION L0004328     VOLUME   443679.835 3758861.150 188.00
LOCATION L0004329     VOLUME   443692.825 3758861.657 188.00
LOCATION L0004330     VOLUME   443705.815 3758862.164 188.00
LOCATION L0004331     VOLUME   443718.805 3758862.672 188.00
LOCATION L0004332     VOLUME   443731.797 3758863.123 188.00
LOCATION L0004333     VOLUME   443744.793 3758863.452 188.00
LOCATION L0004334     VOLUME   443757.788 3758863.781 188.00
LOCATION L0004335     VOLUME   443770.784 3758864.110 188.00
LOCATION L0004336     VOLUME   443783.780 3758864.439 188.00
LOCATION L0004337     VOLUME   443796.776 3758864.768 188.00
LOCATION L0004338     VOLUME   443809.772 3758865.097 188.00
LOCATION L0004339     VOLUME   443822.768 3758865.426 188.00
LOCATION L0004340     VOLUME   443835.763 3758865.761 188.00
LOCATION L0004341     VOLUME   443848.714 3758866.894 188.00
LOCATION L0004342     VOLUME   443861.664 3758868.027 188.00
LOCATION L0004343     VOLUME   443874.615 3758869.160 188.00
LOCATION L0004344     VOLUME   443887.565 3758870.294 188.00
LOCATION L0004345     VOLUME   443900.516 3758871.427 188.00
LOCATION L0004346     VOLUME   443913.466 3758872.560 188.00
LOCATION L0004347     VOLUME   443926.417 3758873.693 188.00
LOCATION L0004348     VOLUME   443939.367 3758874.826 188.00
LOCATION L0004349     VOLUME   443952.098 3758877.209 188.00
LOCATION L0004350     VOLUME   443964.659 3758880.559 188.00
LOCATION L0004351     VOLUME   443977.220 3758883.909 188.00
LOCATION L0004352     VOLUME   443989.781 3758887.258 188.00
LOCATION L0004353     VOLUME   444002.342 3758890.608 188.00
LOCATION L0004354     VOLUME   444014.903 3758893.957 188.00
LOCATION L0004355     VOLUME   444027.446 3758897.363 188.00
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LOCATION L0004356     VOLUME   444039.475 3758902.292 188.00
LOCATION L0004357     VOLUME   444051.504 3758907.222 188.05
LOCATION L0004358     VOLUME   444063.533 3758912.152 188.11
LOCATION L0004359     VOLUME   444075.562 3758917.082 188.16
LOCATION L0004360     VOLUME   444087.591 3758922.012 188.21
LOCATION L0004361     VOLUME   444099.620 3758926.942 188.27
LOCATION L0004362     VOLUME   444111.560 3758932.050 188.32
LOCATION L0004363     VOLUME   444122.732 3758938.696 188.40
LOCATION L0004364     VOLUME   444133.905 3758945.342 188.47
LOCATION L0004365     VOLUME   444145.078 3758951.988 188.54
LOCATION L0004366     VOLUME   444156.251 3758958.634 188.61
LOCATION L0004367     VOLUME   444167.424 3758965.280 188.69
LOCATION L0004368     VOLUME   444178.597 3758971.925 188.76
LOCATION L0004369     VOLUME   444189.769 3758978.571 188.83
LOCATION L0004370     VOLUME   444200.942 3758985.217 188.91
LOCATION L0004371     VOLUME   444212.115 3758991.863 188.98
LOCATION L0004372     VOLUME   444223.288 3758998.509 189.05
LOCATION L0004373     VOLUME   444234.461 3759005.155 189.12
LOCATION L0004374     VOLUME   444245.634 3759011.801 189.20
LOCATION L0004375     VOLUME   444256.806 3759018.447 189.27
LOCATION L0004376     VOLUME   444267.979 3759025.093 189.34
LOCATION L0004377     VOLUME   444276.665 3759034.692 189.45
LOCATION L0004378     VOLUME   444285.114 3759044.572 189.55
LOCATION L0004379     VOLUME   444293.563 3759054.452 189.66
LOCATION L0004380     VOLUME   444302.011 3759064.332 189.77
LOCATION L0004381     VOLUME   444310.460 3759074.212 189.88
LOCATION L0004382     VOLUME   444318.909 3759084.092 189.98
LOCATION L0004383     VOLUME   444327.358 3759093.972 190.09
LOCATION L0004384     VOLUME   444335.807 3759103.852 190.20
LOCATION L0004385     VOLUME   444344.256 3759113.732 190.31
LOCATION L0004386     VOLUME   444352.705 3759123.613 190.41
LOCATION L0004387     VOLUME   444361.154 3759133.493 190.52
LOCATION L0004388     VOLUME   444369.603 3759143.373 190.63
LOCATION L0004389     VOLUME   444378.051 3759153.253 190.73
LOCATION L0004390     VOLUME   444386.500 3759163.133 190.84
LOCATION L0004391     VOLUME   444394.949 3759173.013 190.95
LOCATION L0004392     VOLUME   444403.398 3759182.893 191.06
LOCATION L0004393     VOLUME   444411.847 3759192.773 191.16
LOCATION L0004394     VOLUME   444420.296 3759202.653 191.27
LOCATION L0004395     VOLUME   444428.745 3759212.534 191.38
LOCATION L0004396     VOLUME   444437.194 3759222.414 191.49
LOCATION L0004397     VOLUME   444445.642 3759232.294 191.59
LOCATION L0004398     VOLUME   444454.091 3759242.174 191.70
LOCATION L0004399     VOLUME   444462.540 3759252.054 191.81
LOCATION L0004400     VOLUME   444470.989 3759261.934 191.92
LOCATION L0004401     VOLUME   444479.438 3759271.814 192.02
LOCATION L0004402     VOLUME   444487.887 3759281.694 192.13
LOCATION L0004403     VOLUME   444496.336 3759291.574 192.24
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   LOCATION L0004404     VOLUME   444504.785 3759301.454 192.35
   LOCATION L0004405     VOLUME   444513.233 3759311.335 192.45
** END OF LINE VOLUME SOURCE ID = SLINE24
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE25
** DESCRSRC 40% INBOUND/OUTBOUND ON ARCHIBALD AV.
** PREFIX
** LENGTH OF SIDE = 20.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.0001217
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 12
** 445198.342, 3759799.593, 199.91, 3.49, 9.30
** 445188.822, 3759852.446, 200.35, 3.49, 9.30
** 445188.166, 3759897.092, 200.97, 3.49, 9.30
** 445189.479, 3759923.683, 200.99, 3.49, 9.30
** 445187.509, 3760078.959, 202.07, 3.49, 9.30
** 445189.807, 3760144.943, 202.77, 3.49, 9.30
** 445195.060, 3760298.578, 204.11, 3.49, 9.30
** 445196.373, 3760474.208, 206.00, 3.49, 9.30
** 445197.358, 3760695.468, 206.46, 3.49, 9.30
** 445202.986, 3761468.271, 210.07, 3.49, 9.30
** 445204.948, 3761633.064, 210.59, 3.49, 9.30
** 445214.760, 3762370.121, 218.94, 3.49, 9.30
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   LOCATION L0004406     VOLUME   445196.570 3759809.435 199.83
   LOCATION L0004407     VOLUME   445193.024 3759829.118 200.09
   LOCATION L0004408     VOLUME   445189.479 3759848.801 200.35
   LOCATION L0004409     VOLUME   445188.583 3759868.741 200.58
   LOCATION L0004410     VOLUME   445188.289 3759888.739 200.80
   LOCATION L0004411     VOLUME   445188.740 3759908.724 201.01
   LOCATION L0004412     VOLUME   445189.415 3759928.705 201.22
   LOCATION L0004413     VOLUME   445189.162 3759948.703 201.44
   LOCATION L0004414     VOLUME   445188.908 3759968.702 201.66
   LOCATION L0004415     VOLUME   445188.654 3759988.700 201.89
   LOCATION L0004416     VOLUME   445188.400 3760008.699 202.07
   LOCATION L0004417     VOLUME   445188.147 3760028.697 202.09
   LOCATION L0004418     VOLUME   445187.893 3760048.695 202.11
   LOCATION L0004419     VOLUME   445187.639 3760068.694 202.13
   LOCATION L0004420     VOLUME   445187.848 3760088.687 202.15
   LOCATION L0004421     VOLUME   445188.544 3760108.675 202.26
   LOCATION L0004422     VOLUME   445189.240 3760128.663 202.46
   LOCATION L0004423     VOLUME   445189.934 3760148.651 202.67
   LOCATION L0004424     VOLUME   445190.617 3760168.639 202.87
   LOCATION L0004425     VOLUME   445191.301 3760188.627 203.07
   LOCATION L0004426     VOLUME   445191.984 3760208.616 203.27
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LOCATION	L0004427	VOLUME	445192.667	3760228.604 203.47
LOCATION	L0004428	VOLUME	445193.351	3760248.592 203.67
LOCATION	L0004429	VOLUME	445194.034	3760268.581 203.87
LOCATION	L0004430	VOLUME	445194.717	3760288.569 204.08
LOCATION	L0004431	VOLUME	445195.134	3760308.563 204.29
LOCATION	L0004432	VOLUME	445195.284	3760328.562 204.50
LOCATION	L0004433	VOLUME	445195.433	3760348.562 204.72
LOCATION	L0004434	VOLUME	445195.583	3760368.561 204.94
LOCATION	L0004435	VOLUME	445195.732	3760388.561 205.15
LOCATION	L0004436	VOLUME	445195.882	3760408.560 205.37
LOCATION	L0004437	VOLUME	445196.031	3760428.560 205.58
LOCATION	L0004438	VOLUME	445196.181	3760448.559 205.80
LOCATION	L0004439	VOLUME	445196.331	3760468.558 205.99
LOCATION	L0004440	VOLUME	445196.437	3760488.558 205.99
LOCATION	L0004441	VOLUME	445196.526	3760508.558 205.99
LOCATION	L0004442	VOLUME	445196.615	3760528.558 206.00
LOCATION	L0004443	VOLUME	445196.704	3760548.558 206.00
LOCATION	L0004444	VOLUME	445196.793	3760568.557 206.00
LOCATION	L0004445	VOLUME	445196.882	3760588.557 206.00
LOCATION	L0004446	VOLUME	445196.971	3760608.557 206.00
LOCATION	L0004447	VOLUME	445197.060	3760628.557 206.00
LOCATION	L0004448	VOLUME	445197.149	3760648.557 206.00
LOCATION	L0004449	VOLUME	445197.238	3760668.556 206.19
LOCATION	L0004450	VOLUME	445197.327	3760688.556 206.40
LOCATION	L0004451	VOLUME	445197.453	3760708.556 206.62
LOCATION	L0004452	VOLUME	445197.599	3760728.555 206.83
LOCATION	L0004453	VOLUME	445197.744	3760748.555 207.00
LOCATION	L0004454	VOLUME	445197.890	3760768.554 207.00
LOCATION	L0004455	VOLUME	445198.036	3760788.554 207.00
LOCATION	L0004456	VOLUME	445198.181	3760808.553 207.00
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LOCATION	L0004458	VOLUME	445198.473	3760848.552 207.00
LOCATION	L0004459	VOLUME	445198.618	3760868.552 207.00
LOCATION	L0004460	VOLUME	445198.764	3760888.551 207.00
LOCATION	L0004461	VOLUME	445198.910	3760908.550 207.00
LOCATION	L0004462	VOLUME	445199.055	3760928.550 207.00
LOCATION	L0004463	VOLUME	445199.201	3760948.549 207.00
LOCATION	L0004464	VOLUME	445199.347	3760968.549 207.00
LOCATION	L0004465	VOLUME	445199.492	3760988.548 207.00
LOCATION	L0004466	VOLUME	445199.638	3761008.548 207.01
LOCATION	L0004467	VOLUME	445199.784	3761028.547 207.09
LOCATION	L0004468	VOLUME	445199.929	3761048.547 207.31
LOCATION	L0004469	VOLUME	445200.075	3761068.546 207.52
LOCATION	L0004470	VOLUME	445200.221	3761088.546 207.74
LOCATION	L0004471	VOLUME	445200.366	3761108.545 207.96
LOCATION	L0004472	VOLUME	445200.512	3761128.545 208.01
LOCATION	L0004473	VOLUME	445200.658	3761148.544 208.01
LOCATION	L0004474	VOLUME	445200.803	3761168.544 208.01

LOCATION	L0004475	VOLUME	445200.949	3761188.543 208.01
LOCATION	L0004476	VOLUME	445201.094	3761208.542 208.04
LOCATION	L0004477	VOLUME	445201.240	3761228.542 208.26
LOCATION	L0004478	VOLUME	445201.386	3761248.541 208.48
LOCATION	L0004479	VOLUME	445201.531	3761268.541 208.69
LOCATION	L0004480	VOLUME	445201.677	3761288.540 208.91
LOCATION	L0004481	VOLUME	445201.823	3761308.540 209.13
LOCATION	L0004482	VOLUME	445201.968	3761328.539 209.34
LOCATION	L0004483	VOLUME	445202.114	3761348.539 209.56
LOCATION	L0004484	VOLUME	445202.260	3761368.538 209.78
LOCATION	L0004485	VOLUME	445202.405	3761388.538 209.99
LOCATION	L0004486	VOLUME	445202.551	3761408.537 210.02
LOCATION	L0004487	VOLUME	445202.697	3761428.537 210.02
LOCATION	L0004488	VOLUME	445202.842	3761448.536 210.03
LOCATION	L0004489	VOLUME	445202.989	3761468.536 210.03
LOCATION	L0004490	VOLUME	445203.227	3761488.534 210.04
LOCATION	L0004491	VOLUME	445203.465	3761508.533 210.04
LOCATION	L0004492	VOLUME	445203.704	3761528.531 210.04
LOCATION	L0004493	VOLUME	445203.942	3761548.530 210.05
LOCATION	L0004494	VOLUME	445204.180	3761568.528 210.05
LOCATION	L0004495	VOLUME	445204.418	3761588.527 210.19
LOCATION	L0004496	VOLUME	445204.656	3761608.526 210.41
LOCATION	L0004497	VOLUME	445204.894	3761628.524 210.63
LOCATION	L0004498	VOLUME	445205.154	3761648.523 210.85
LOCATION	L0004499	VOLUME	445205.420	3761668.521 211.06
LOCATION	L0004500	VOLUME	445205.686	3761688.519 210.85
LOCATION	L0004501	VOLUME	445205.952	3761708.517 210.65
LOCATION	L0004502	VOLUME	445206.219	3761728.515 210.45
LOCATION	L0004503	VOLUME	445206.485	3761748.514 210.25
LOCATION	L0004504	VOLUME	445206.751	3761768.512 210.22
LOCATION	L0004505	VOLUME	445207.017	3761788.510 210.44
LOCATION	L0004506	VOLUME	445207.284	3761808.508 210.66
LOCATION	L0004507	VOLUME	445207.550	3761828.507 210.89
LOCATION	L0004508	VOLUME	445207.816	3761848.505 211.11
LOCATION	L0004509	VOLUME	445208.082	3761868.503 211.16
LOCATION	L0004510	VOLUME	445208.349	3761888.501 211.17
LOCATION	L0004511	VOLUME	445208.615	3761908.500 211.17
LOCATION	L0004512	VOLUME	445208.881	3761928.498 211.18
LOCATION	L0004513	VOLUME	445209.147	3761948.496 211.22
LOCATION	L0004514	VOLUME	445209.414	3761968.494 211.44
LOCATION	L0004515	VOLUME	445209.680	3761988.492 211.67
LOCATION	L0004516	VOLUME	445209.946	3762008.491 211.89
LOCATION	L0004517	VOLUME	445210.212	3762028.489 212.11
LOCATION	L0004518	VOLUME	445210.478	3762048.487 212.33
LOCATION	L0004519	VOLUME	445210.745	3762068.485 212.55
LOCATION	L0004520	VOLUME	445211.011	3762088.484 212.78
LOCATION	L0004521	VOLUME	445211.277	3762108.482 213.00
LOCATION	L0004522	VOLUME	445211.543	3762128.480 213.22

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   LOCATION L0004523     VOLUME   445211.810 3762148.478 213.63
   LOCATION L0004524     VOLUME   445212.076 3762168.476 214.05
   LOCATION L0004525     VOLUME   445212.342 3762188.475 214.47
   LOCATION L0004526     VOLUME   445212.608 3762208.473 214.89
   LOCATION L0004527     VOLUME   445212.875 3762228.471 215.18
   LOCATION L0004528     VOLUME   445213.141 3762248.469 215.18
   LOCATION L0004529     VOLUME   445213.407 3762268.468 215.18
   LOCATION L0004530     VOLUME   445213.673 3762288.466 215.19
   LOCATION L0004531     VOLUME   445213.940 3762308.464 215.19
   LOCATION L0004532     VOLUME   445214.206 3762328.462 215.95
   LOCATION L0004533     VOLUME   445214.472 3762348.461 217.03
   LOCATION L0004534     VOLUME   445214.738 3762368.459 218.12
** END OF LINE VOLUME SOURCE ID = SLINE25
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE26
** DESCRSRC 40% INBOUND/OUTBOUND ON LIMONITE
** PREFIX
** LENGTH OF SIDE = 20.00
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.0001244
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 14
** 445237.997, 3759576.069, 196.67, 3.49, 9.30
** 445397.530, 3759575.268, 197.80, 3.49, 9.30
** 445613.981, 3759575.268, 202.25, 3.49, 9.30
** 445926.633, 3759576.069, 201.47, 3.49, 9.30
** 446018.023, 3759575.268, 200.91, 3.49, 9.30
** 446415.652, 3759573.664, 199.41, 3.49, 9.30
** 446828.513, 3759572.863, 198.53, 3.49, 9.30
** 447007.286, 3759571.259, 197.67, 3.49, 9.30
** 447133.149, 3759567.251, 196.42, 3.49, 9.30
** 447259.813, 3759568.053, 197.00, 3.49, 9.30
** 447455.421, 3759565.648, 198.23, 3.49, 9.30
** 447546.811, 3759566.449, 196.83, 3.49, 9.30
** 447864.273, 3759566.449, 196.14, 3.49, 9.30
** 447862.670, 3759568.854, 196.15, 3.49, 9.30
** ----------------------------------------------------------------------
   LOCATION L0004535     VOLUME   445247.997 3759576.019 196.62
   LOCATION L0004536     VOLUME   445267.997 3759575.919 196.37
   LOCATION L0004537     VOLUME   445287.996 3759575.818 196.53
   LOCATION L0004538     VOLUME   445307.996 3759575.718 196.70
   LOCATION L0004539     VOLUME   445327.996 3759575.617 196.86
   LOCATION L0004540     VOLUME   445347.996 3759575.517 197.10
   LOCATION L0004541     VOLUME   445367.995 3759575.416 197.72
   LOCATION L0004542     VOLUME   445387.995 3759575.316 198.33
   LOCATION L0004543     VOLUME   445407.995 3759575.268 198.95
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LOCATION	L0004544	VOLUME	445427.995	3759575.268 199.45
LOCATION	L0004545	VOLUME	445447.995	3759575.268 199.71
LOCATION	L0004546	VOLUME	445467.995	3759575.268 199.97
LOCATION	L0004547	VOLUME	445487.995	3759575.268 200.23
LOCATION	L0004548	VOLUME	445507.995	3759575.268 200.62
LOCATION	L0004549	VOLUME	445527.995	3759575.268 201.14
LOCATION	L0004550	VOLUME	445547.995	3759575.268 201.66
LOCATION	L0004551	VOLUME	445567.995	3759575.268 202.18
LOCATION	L0004552	VOLUME	445587.995	3759575.268 202.32
LOCATION	L0004553	VOLUME	445607.995	3759575.268 202.22
LOCATION	L0004554	VOLUME	445627.995	3759575.304 202.12
LOCATION	L0004555	VOLUME	445647.995	3759575.355 202.02
LOCATION	L0004556	VOLUME	445667.995	3759575.406 201.88
LOCATION	L0004557	VOLUME	445687.995	3759575.457 201.72
LOCATION	L0004558	VOLUME	445707.995	3759575.509 201.56
LOCATION	L0004559	VOLUME	445727.995	3759575.560 201.40
LOCATION	L0004560	VOLUME	445747.994	3759575.611 201.39
LOCATION	L0004561	VOLUME	445767.994	3759575.663 201.39
LOCATION	L0004562	VOLUME	445787.994	3759575.714 201.40
LOCATION	L0004563	VOLUME	445807.994	3759575.765 201.40
LOCATION	L0004564	VOLUME	445827.994	3759575.816 201.40
LOCATION	L0004565	VOLUME	445847.994	3759575.868 201.40
LOCATION	L0004566	VOLUME	445867.994	3759575.919 201.40
LOCATION	L0004567	VOLUME	445887.994	3759575.970 201.40
LOCATION	L0004568	VOLUME	445907.994	3759576.022 201.41
LOCATION	L0004569	VOLUME	445927.994	3759576.057 201.41
LOCATION	L0004570	VOLUME	445947.993	3759575.882 201.41
LOCATION	L0004571	VOLUME	445967.992	3759575.707 201.31
LOCATION	L0004572	VOLUME	445987.991	3759575.531 201.05
LOCATION	L0004573	VOLUME	446007.991	3759575.356 200.79
LOCATION	L0004574	VOLUME	446027.990	3759575.227 200.53
LOCATION	L0004575	VOLUME	446047.990	3759575.147 200.41
LOCATION	L0004576	VOLUME	446067.990	3759575.066 200.41
LOCATION	L0004577	VOLUME	446087.990	3759574.986 200.41
LOCATION	L0004578	VOLUME	446107.990	3759574.905 200.41
LOCATION	L0004579	VOLUME	446127.989	3759574.824 200.41
LOCATION	L0004580	VOLUME	446147.989	3759574.744 200.41
LOCATION	L0004581	VOLUME	446167.989	3759574.663 200.41
LOCATION	L0004582	VOLUME	446187.989	3759574.582 200.41
LOCATION	L0004583	VOLUME	446207.989	3759574.502 200.19
LOCATION	L0004584	VOLUME	446227.989	3759574.421 199.93
LOCATION	L0004585	VOLUME	446247.988	3759574.340 199.67
LOCATION	L0004586	VOLUME	446267.988	3759574.260 199.42
LOCATION	L0004587	VOLUME	446287.988	3759574.179 199.41
LOCATION	L0004588	VOLUME	446307.988	3759574.098 199.41
LOCATION	L0004589	VOLUME	446327.988	3759574.018 199.41
LOCATION	L0004590	VOLUME	446347.988	3759573.937 199.41
LOCATION	L0004591	VOLUME	446367.987	3759573.856 199.41

LOCATION	L0004592	VOLUME	446387.987	3759573.776 199.41
LOCATION	L0004593	VOLUME	446407.987	3759573.695 199.41
LOCATION	L0004594	VOLUME	446427.987	3759573.640 199.41
LOCATION	L0004595	VOLUME	446447.987	3759573.602 199.41
LOCATION	L0004596	VOLUME	446467.987	3759573.563 199.41
LOCATION	L0004597	VOLUME	446487.987	3759573.524 199.41
LOCATION	L0004598	VOLUME	446507.987	3759573.485 199.37
LOCATION	L0004599	VOLUME	446527.987	3759573.446 199.26
LOCATION	L0004600	VOLUME	446547.987	3759573.407 199.15
LOCATION	L0004601	VOLUME	446567.987	3759573.369 199.05
LOCATION	L0004602	VOLUME	446587.987	3759573.330 198.91
LOCATION	L0004603	VOLUME	446607.987	3759573.291 198.76
LOCATION	L0004604	VOLUME	446627.987	3759573.252 198.61
LOCATION	L0004605	VOLUME	446647.987	3759573.213 198.46
LOCATION	L0004606	VOLUME	446667.987	3759573.174 198.42
LOCATION	L0004607	VOLUME	446687.987	3759573.135 198.42
LOCATION	L0004608	VOLUME	446707.987	3759573.097 198.42
LOCATION	L0004609	VOLUME	446727.987	3759573.058 198.42
LOCATION	L0004610	VOLUME	446747.986	3759573.019 198.43
LOCATION	L0004611	VOLUME	446767.986	3759572.980 198.43
LOCATION	L0004612	VOLUME	446787.986	3759572.941 198.43
LOCATION	L0004613	VOLUME	446807.986	3759572.902 198.43
LOCATION	L0004614	VOLUME	446827.986	3759572.864 198.43
LOCATION	L0004615	VOLUME	446847.986	3759572.688 198.43
LOCATION	L0004616	VOLUME	446867.985	3759572.509 198.43
LOCATION	L0004617	VOLUME	446887.984	3759572.329 198.38
LOCATION	L0004618	VOLUME	446907.983	3759572.150 198.12
LOCATION	L0004619	VOLUME	446927.982	3759571.971 197.86
LOCATION	L0004620	VOLUME	446947.982	3759571.791 197.60
LOCATION	L0004621	VOLUME	446967.981	3759571.612 197.42
LOCATION	L0004622	VOLUME	446987.980	3759571.432 197.42
LOCATION	L0004623	VOLUME	447007.979	3759571.237 197.42
LOCATION	L0004624	VOLUME	447027.969	3759570.601 197.42
LOCATION	L0004625	VOLUME	447047.959	3759569.964 197.41
LOCATION	L0004626	VOLUME	447067.948	3759569.327 197.40
LOCATION	L0004627	VOLUME	447087.938	3759568.691 197.40
LOCATION	L0004628	VOLUME	447107.928	3759568.054 197.39
LOCATION	L0004629	VOLUME	447127.918	3759567.418 197.22
LOCATION	L0004630	VOLUME	447147.915	3759567.344 196.96
LOCATION	L0004631	VOLUME	447167.915	3759567.471 196.71
LOCATION	L0004632	VOLUME	447187.914	3759567.598 196.45
LOCATION	L0004633	VOLUME	447207.914	3759567.724 196.60
LOCATION	L0004634	VOLUME	447227.913	3759567.851 196.86
LOCATION	L0004635	VOLUME	447247.913	3759567.977 197.12
LOCATION	L0004636	VOLUME	447267.912	3759567.953 197.38
LOCATION	L0004637	VOLUME	447287.911	3759567.707 197.98
LOCATION	L0004638	VOLUME	447307.909	3759567.461 198.60
LOCATION	L0004639	VOLUME	447327.908	3759567.215 199.23

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   LOCATION L0004640     VOLUME   447347.906 3759566.969 199.79
   LOCATION L0004641     VOLUME   447367.905 3759566.724 199.79
   LOCATION L0004642     VOLUME   447387.903 3759566.478 199.79
   LOCATION L0004643     VOLUME   447407.902 3759566.232 199.78
   LOCATION L0004644     VOLUME   447427.900 3759565.986 199.66
   LOCATION L0004645     VOLUME   447447.899 3759565.740 199.13
   LOCATION L0004646     VOLUME   447467.898 3759565.757 198.62
   LOCATION L0004647     VOLUME   447487.897 3759565.932 198.10
   LOCATION L0004648     VOLUME   447507.896 3759566.108 197.65
   LOCATION L0004649     VOLUME   447527.895 3759566.283 197.29
   LOCATION L0004650     VOLUME   447547.894 3759566.449 196.93
   LOCATION L0004651     VOLUME   447567.894 3759566.449 196.57
   LOCATION L0004652     VOLUME   447587.894 3759566.449 196.40
   LOCATION L0004653     VOLUME   447607.894 3759566.449 196.41
   LOCATION L0004654     VOLUME   447627.894 3759566.449 196.41
   LOCATION L0004655     VOLUME   447647.894 3759566.449 196.41
   LOCATION L0004656     VOLUME   447667.894 3759566.449 196.41
   LOCATION L0004657     VOLUME   447687.894 3759566.449 196.41
   LOCATION L0004658     VOLUME   447707.894 3759566.449 196.41
   LOCATION L0004659     VOLUME   447727.894 3759566.449 196.41
   LOCATION L0004660     VOLUME   447747.894 3759566.449 196.41
   LOCATION L0004661     VOLUME   447767.894 3759566.449 196.42
   LOCATION L0004662     VOLUME   447787.894 3759566.449 196.42
   LOCATION L0004663     VOLUME   447807.894 3759566.449 196.42
   LOCATION L0004664     VOLUME   447827.894 3759566.449 196.42
   LOCATION L0004665     VOLUME   447847.894 3759566.449 196.42
** END OF LINE VOLUME SOURCE ID = SLINE26
** SOURCE PARAMETERS **
** LINE VOLUME SOURCE ID = SLINE1
   SRCPARAM L0003527     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003528     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003529     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003530     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003531     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003532     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003533     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003534     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003535     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003536     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003537     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003538     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003539     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003540     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003541     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003542     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003543     0.00000056      3.49      4.00      3.25
   SRCPARAM L0003544     0.00000056      3.49      4.00      3.25
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** LINE VOLUME SOURCE ID = SLINE2
   SRCPARAM L0003545     0.000000764      3.49      4.00      3.25
   SRCPARAM L0003546     0.000000764      3.49      4.00      3.25
   SRCPARAM L0003547     0.000000764      3.49      4.00      3.25
   SRCPARAM L0003548     0.000000764      3.49      4.00      3.25
   SRCPARAM L0003549     0.000000764      3.49      4.00      3.25
   SRCPARAM L0003550     0.000000764      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE3
   SRCPARAM L0003551     0.000001528      3.49      4.00      3.25
   SRCPARAM L0003552     0.000001528      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE4
   SRCPARAM L0003553     0.00000163      3.49      4.00      3.25
   SRCPARAM L0003554     0.00000163      3.49      4.00      3.25
   SRCPARAM L0003555     0.00000163      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE5
   SRCPARAM L0003556     0.0000006622      3.49      4.00      3.25
   SRCPARAM L0003557     0.0000006622      3.49      4.00      3.25
   SRCPARAM L0003558     0.0000006622      3.49      4.00      3.25
   SRCPARAM L0003559     0.0000006622      3.49      4.00      3.25
   SRCPARAM L0003560     0.0000006622      3.49      4.00      3.25
   SRCPARAM L0003561     0.0000006622      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE6
   SRCPARAM L0003562     0.0000007857      3.49      4.00      3.25
   SRCPARAM L0003563     0.0000007857      3.49      4.00      3.25
   SRCPARAM L0003564     0.0000007857      3.49      4.00      3.25
   SRCPARAM L0003565     0.0000007857      3.49      4.00      3.25
   SRCPARAM L0003566     0.0000007857      3.49      4.00      3.25
   SRCPARAM L0003567     0.0000007857      3.49      4.00      3.25
   SRCPARAM L0003568     0.0000007857      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE7
   SRCPARAM L0003569     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003570     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003571     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003572     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003573     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003574     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003575     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003576     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003577     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003578     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003579     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003580     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003581     0.00000112      3.49      4.00      3.25
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   SRCPARAM L0003582     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003583     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003584     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003585     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003586     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003587     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003588     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003589     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003590     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003591     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003592     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003593     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003594     0.00000112      3.49      4.00      3.25
   SRCPARAM L0003595     0.00000112      3.49      4.00      3.25
** ----------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE8
   SRCPARAM L0003596     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003597     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003598     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003599     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003600     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003601     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003602     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003603     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003604     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003605     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003606     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003607     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003608     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003609     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003610     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003611     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003612     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003613     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003614     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003615     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003616     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003617     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003618     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003619     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003620     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003621     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003622     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003623     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003624     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003625     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003626     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003627     0.0000003942      3.49      4.00      3.25
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   SRCPARAM L0003628     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003629     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003630     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003631     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003632     0.0000003942      3.49      4.00      3.25
   SRCPARAM L0003633     0.0000003942      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE9
   SRCPARAM L0003634     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003635     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003636     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003637     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003638     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003639     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003640     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003641     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003642     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003643     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003644     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003645     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003646     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003647     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003648     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003649     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003650     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003651     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003652     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003653     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003654     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003655     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003656     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003657     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003658     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003659     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003660     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003661     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003662     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003663     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003664     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003665     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003666     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003667     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003668     0.0000001798      3.49      4.00      3.25
   SRCPARAM L0003669     0.0000001798      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE10
   SRCPARAM L0003670     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003671     0.0000001166      3.49      4.00      3.25
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   SRCPARAM L0003672     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003673     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003674     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003675     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003676     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003677     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003678     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003679     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003680     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003681     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003682     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003683     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003684     0.0000001166      3.49      4.00      3.25
   SRCPARAM L0003685     0.0000001166      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE11
   SRCPARAM L0003686     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003687     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003688     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003689     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003690     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003691     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003692     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003693     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003694     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003695     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003696     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003697     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003698     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003699     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003700     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003701     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003702     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003703     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003704     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003705     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003706     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003707     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003708     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003709     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003710     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003711     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003712     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003713     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003714     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003715     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003716     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003717     0.0000001952      3.49      4.00      3.25
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   SRCPARAM L0003718     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003719     0.0000001952      3.49      4.00      3.25
   SRCPARAM L0003720     0.0000001952      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE12
   SRCPARAM L0003721     0.00000016      3.49      4.00      3.25
   SRCPARAM L0003722     0.00000016      3.49      4.00      3.25
   SRCPARAM L0003723     0.00000016      3.49      4.00      3.25
   SRCPARAM L0003724     0.00000016      3.49      4.00      3.25
   SRCPARAM L0003725     0.00000016      3.49      4.00      3.25
   SRCPARAM L0003726     0.00000016      3.49      4.00      3.25
   SRCPARAM L0003727     0.00000016      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE13
   SRCPARAM L0003728     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003729     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003730     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003731     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003732     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003733     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003734     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003735     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003736     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003737     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003738     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003739     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003740     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003741     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003742     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003743     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003744     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003745     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003746     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003747     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003748     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003749     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003750     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003751     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003752     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003753     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003754     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003755     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003756     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003757     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003758     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003759     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003760     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003761     0.0000002168      3.49      4.00      3.25
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   SRCPARAM L0003762     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003763     0.0000002168      3.49      4.00      3.25
   SRCPARAM L0003764     0.0000002168      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE14
   SRCPARAM L0003765     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003766     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003767     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003768     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003769     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003770     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003771     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003772     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003773     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003774     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003775     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003776     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003777     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003778     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003779     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003780     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003781     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003782     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003783     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003784     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003785     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003786     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003787     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003788     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003789     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003790     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003791     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003792     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003793     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003794     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003795     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003796     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003797     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003798     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003799     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003800     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003801     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003802     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003803     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003804     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003805     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003806     0.000001199       0.00      4.00      3.25
   SRCPARAM L0003807     0.000001199       0.00      4.00      3.25
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   SRCPARAM L0003808     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003809     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003810     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003811     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003812     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003813     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003814     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003815     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003816     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003817     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003818     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003819     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003820     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003821     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003822     0.000001199      0.00      4.00      3.25
   SRCPARAM L0003823     0.000001199      0.00      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE15
   SRCPARAM L0003824     0.00000002859      3.49      4.00      3.25
   SRCPARAM L0003825     0.00000002859      3.49      4.00      3.25
   SRCPARAM L0003826     0.00000002859      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE16
   SRCPARAM L0003827     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003828     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003829     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003830     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003831     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003832     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003833     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003834     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003835     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003836     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003837     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003838     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003839     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003840     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003841     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003842     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003843     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003844     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003845     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003846     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003847     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003848     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003849     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003850     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003851     0.00000007643      3.49      4.00      3.25
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   SRCPARAM L0003852     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003853     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003854     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003855     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003856     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003857     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003858     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003859     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003860     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003861     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003862     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003863     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003864     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003865     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003866     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003867     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003868     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003869     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003870     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003871     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003872     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003873     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003874     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003875     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003876     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003877     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003878     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003879     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003880     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003881     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003882     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003883     0.00000007643      3.49      4.00      3.25
   SRCPARAM L0003884     0.00000007643      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE17
   SRCPARAM L0003885     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003886     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003887     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003888     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003889     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003890     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003891     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003892     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003893     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003894     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003895     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003896     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003897     0.0000001012      3.49      4.00      3.25
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SRCPARAM L0003898     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003899     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003900     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003901     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003902     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003903     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003904     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003905     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003906     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003907     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003908     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003909     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003910     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003911     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003912     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003913     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003914     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003915     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003916     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003917     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003918     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003919     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003920     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003921     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003922     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003923     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003924     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003925     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003926     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003927     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003928     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003929     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003930     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003931     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003932     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003933     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003934     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003935     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003936     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003937     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003938     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003939     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003940     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003941     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003942     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003943     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003944     0.0000001012      3.49      4.00      3.25
SRCPARAM L0003945     0.0000001012      3.49      4.00      3.25
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   SRCPARAM L0003946     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003947     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003948     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003949     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003950     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003951     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003952     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003953     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003954     0.0000001012      3.49      4.00      3.25
   SRCPARAM L0003955     0.0000001012      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE18
   SRCPARAM L0003956     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003957     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003958     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003959     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003960     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003961     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003962     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003963     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003964     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003965     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003966     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003967     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003968     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003969     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003970     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003971     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003972     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003973     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003974     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003975     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003976     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003977     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003978     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003979     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003980     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003981     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003982     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003983     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003984     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003985     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003986     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003987     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003988     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003989     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003990     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003991     0.0000002017      3.49      4.00      3.25
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   SRCPARAM L0003992     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003993     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003994     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003995     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003996     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003997     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003998     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0003999     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0004000     0.0000002017      3.49      4.00      3.25
   SRCPARAM L0004001     0.0000002017      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE19
   SRCPARAM L0004002     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004003     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004004     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004005     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004006     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004007     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004008     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004009     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004010     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004011     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004012     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004013     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004014     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004015     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004016     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004017     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004018     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004019     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004020     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004021     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004022     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004023     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004024     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004025     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004026     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004027     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004028     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004029     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004030     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004031     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004032     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004033     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004034     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004035     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004036     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004037     0.0000001023      3.49      4.00      3.25
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   SRCPARAM L0004038     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004039     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004040     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004041     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004042     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004043     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004044     0.0000001023      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE20
   SRCPARAM L0004045     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004046     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004047     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004048     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004049     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004050     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004051     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004052     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004053     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004054     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004055     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004056     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004057     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004058     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004059     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004060     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004061     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004062     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004063     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004064     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004065     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004066     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004067     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004068     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004069     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004070     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004071     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004072     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004073     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004074     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004075     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004076     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004077     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004078     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004079     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004080     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004081     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004082     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004083     0.0000001023      3.49      4.00      3.25
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   SRCPARAM L0004084     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004085     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004086     0.0000001023      3.49      4.00      3.25
   SRCPARAM L0004087     0.0000001023      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE21
   SRCPARAM L0004088     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004089     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004090     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004091     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004092     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004093     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004094     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004095     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004096     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004097     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004098     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004099     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004100     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004101     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004102     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004103     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004104     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004105     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004106     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004107     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004108     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004109     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004110     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004111     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004112     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004113     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004114     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004115     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004116     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004117     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004118     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004119     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004120     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004121     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004122     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004123     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004124     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004125     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004126     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004127     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004128     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004129     0.0000003845      3.49      4.00      3.25
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   SRCPARAM L0004130     0.0000003845      3.49      4.00      3.25
   SRCPARAM L0004131     0.0000003845      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE22
   SRCPARAM L0004132     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004133     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004134     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004135     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004136     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004137     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004138     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004139     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004140     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004141     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004142     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004143     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004144     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004145     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004146     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004147     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004148     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004149     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004150     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004151     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004152     0.0000002075      0.00      4.00      3.25
   SRCPARAM L0004153     0.0000002075      0.00      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE23
   SRCPARAM L0004154     0.000000194      3.49      4.00      3.25
   SRCPARAM L0004155     0.000000194      3.49      4.00      3.25
   SRCPARAM L0004156     0.000000194      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE24
   SRCPARAM L0004157     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004158     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004159     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004160     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004161     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004162     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004163     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004164     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004165     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004166     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004167     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004168     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004169     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004170     0.0000003078      3.49      6.05      3.25
   SRCPARAM L0004171     0.0000003078      3.49      6.05      3.25
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SRCPARAM L0004172     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004173     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004174     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004175     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004176     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004177     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004178     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004179     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004180     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004181     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004182     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004183     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004184     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004185     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004186     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004187     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004188     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004189     0.0000003078      3.49      6.05      3.25
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SRCPARAM L0004212     0.0000003078      3.49      6.05      3.25
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SRCPARAM L0004215     0.0000003078      3.49      6.05      3.25
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SRCPARAM L0004217     0.0000003078      3.49      6.05      3.25
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SRCPARAM L0004312     0.0000003078      3.49      6.05      3.25
SRCPARAM L0004313     0.0000003078      3.49      6.05      3.25
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** LINE VOLUME SOURCE ID = SLINE25
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SRCPARAM L0004427     0.0000009434      3.49      9.30      3.25
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SRCPARAM L0004481     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004482     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004483     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004484     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004485     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004486     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004487     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004488     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004489     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004490     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004491     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004492     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004493     0.0000009434      3.49      9.30      3.25
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SRCPARAM L0004495     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004496     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004497     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004498     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004499     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004500     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004501     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004502     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004503     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004504     0.0000009434      3.49      9.30      3.25
SRCPARAM L0004505     0.0000009434      3.49      9.30      3.25
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   SRCPARAM L0004506     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004507     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004508     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004509     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004510     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004511     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004512     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004513     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004514     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004515     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004516     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004517     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004518     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004519     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004520     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004521     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004522     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004523     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004524     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004525     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004526     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004527     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004528     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004529     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004530     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004531     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004532     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004533     0.0000009434      3.49      9.30      3.25
   SRCPARAM L0004534     0.0000009434      3.49      9.30      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE26
   SRCPARAM L0004535     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004536     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004537     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004538     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004539     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004540     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004541     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004542     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004543     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004544     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004545     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004546     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004547     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004548     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004549     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004550     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004551     0.0000009496      3.49      9.30      3.25
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SRCPARAM L0004552     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004553     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004554     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004555     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004556     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004557     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004558     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004559     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004560     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004561     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004562     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004563     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004564     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004565     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004566     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004567     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004568     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004569     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004570     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004571     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004572     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004573     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004574     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004575     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004576     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004577     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004578     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004579     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004580     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004581     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004582     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004583     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004584     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004585     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004586     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004587     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004588     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004589     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004590     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004591     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004592     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004593     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004594     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004595     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004596     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004597     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004598     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004599     0.0000009496      3.49      9.30      3.25
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SRCPARAM L0004600     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004601     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004602     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004603     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004604     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004605     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004606     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004607     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004608     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004609     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004610     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004611     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004612     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004613     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004614     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004615     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004616     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004617     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004618     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004619     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004620     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004621     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004622     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004623     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004624     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004625     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004626     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004627     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004628     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004629     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004630     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004631     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004632     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004633     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004634     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004635     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004636     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004637     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004638     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004639     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004640     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004641     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004642     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004643     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004644     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004645     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004646     0.0000009496      3.49      9.30      3.25
SRCPARAM L0004647     0.0000009496      3.49      9.30      3.25
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   SRCPARAM L0004648     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004649     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004650     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004651     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004652     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004653     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004654     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004655     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004656     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004657     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004658     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004659     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004660     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004661     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004662     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004663     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004664     0.0000009496      3.49      9.30      3.25
   SRCPARAM L0004665     0.0000009496      3.49      9.30      3.25
** ----------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD RECEPTOR PATHWAY
**************************************
**
**
RE STARTING
   INCLUDED "11964 HRA 12-19.ROU"
RE FINISHED
**
**************************************
** AERMOD METEOROLOGY PATHWAY
**************************************
**
**
ME STARTING
   SURFFILE KCNO_V9_ADJU\KCNO_V9.SFC
   PROFFILE KCNO_V9_ADJU\KCNO_V9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD OUTPUT PATHWAY
**************************************
```

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**
**
OU STARTING
** AUTO-GENERATED PLOTFILES
   PLOTFILE   ANNUAL ALL "11964 HRA 12-19.AD\AN00GALL.PLT" 31
   SUMMFILE "11964 HRA 12-19.SUM"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2875       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    2875       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                          ***       10:27:00

                                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
```

```
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for  1139 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  DPM

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:   1139 Source(s);       1 Source Group(s); and     124
Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:   1139 VOLUME source(s)
                and:      0 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with      0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE
```

Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing
Hours
b for Both Calm
and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 198.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.0 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 11964 HRA 12-19.ERR

**File for Summary of Results: 11964 HRA 12-19.SUM

*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** ***
*** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0003527	0	0.56000E-06	445133.4	3759698.5	199.4	3.49	4.00			

3.25 YES							
L0003528	0	0.56000E-06	445124.8	3759698.6	199.6	3.49	4.00
3.25 YES							
L0003529	0	0.56000E-06	445116.3	3759698.6	199.7	3.49	4.00
3.25 YES							
L0003530	0	0.56000E-06	445107.7	3759698.7	199.6	3.49	4.00
3.25 YES							
L0003531	0	0.56000E-06	445099.1	3759698.8	199.5	3.49	4.00
3.25 YES							
L0003532	0	0.56000E-06	445090.5	3759698.8	199.4	3.49	4.00
3.25 YES							
L0003533	0	0.56000E-06	445081.9	3759698.9	199.3	3.49	4.00
3.25 YES							
L0003534	0	0.56000E-06	445073.3	3759698.9	199.2	3.49	4.00
3.25 YES							
L0003535	0	0.56000E-06	445064.7	3759699.0	199.0	3.49	4.00
3.25 YES							
L0003536	0	0.56000E-06	445056.1	3759699.1	198.9	3.49	4.00
3.25 YES							
L0003537	0	0.56000E-06	445047.5	3759699.1	198.8	3.49	4.00
3.25 YES							
L0003538	0	0.56000E-06	445039.0	3759699.2	198.7	3.49	4.00
3.25 YES							
L0003539	0	0.56000E-06	445030.4	3759699.3	198.7	3.49	4.00
3.25 YES							
L0003540	0	0.56000E-06	445021.8	3759699.3	198.7	3.49	4.00
3.25 YES							
L0003541	0	0.56000E-06	445013.2	3759699.4	198.7	3.49	4.00
3.25 YES							
L0003542	0	0.56000E-06	445004.6	3759699.5	198.7	3.49	4.00
3.25 YES							
L0003543	0	0.56000E-06	444996.0	3759699.5	198.7	3.49	4.00
3.25 YES							
L0003544	0	0.56000E-06	444987.4	3759699.6	198.7	3.49	4.00
3.25 YES							
L0003545	0	0.76400E-06	444865.2	3759632.5	197.7	3.49	4.00
3.25 YES							
L0003546	0	0.76400E-06	444873.5	3759634.7	197.9	3.49	4.00
3.25 YES							
L0003547	0	0.76400E-06	444881.8	3759636.9	198.0	3.49	4.00
3.25 YES							
L0003548	0	0.76400E-06	444890.2	3759639.1	198.0	3.49	4.00
3.25 YES							
L0003549	0	0.76400E-06	444898.5	3759641.3	198.0	3.49	4.00
3.25 YES							
L0003550	0	0.76400E-06	444906.8	3759643.4	198.0	3.49	4.00
3.25 YES							
L0003551	0	0.15280E-05	444762.6	3759603.7	196.6	3.49	4.00

3.25 YES
L0003552 0 0.15280E-05 444770.7 3759606.5 196.7 3.49 4.00
3.25 YES
L0003553 0 0.16300E-05 444639.2 3759539.6 195.0 3.49 4.00
3.25 YES
L0003554 0 0.16300E-05 444646.7 3759543.7 195.0 3.49 4.00
3.25 YES
L0003555 0 0.16300E-05 444654.3 3759547.8 195.1 3.49 4.00
3.25 YES
L0003556 0 0.66220E-06 444552.0 3759429.8 193.7 3.49 4.00
3.25 YES
L0003557 0 0.66220E-06 444546.9 3759436.7 193.8 3.49 4.00
3.25 YES
L0003558 0 0.66220E-06 444541.7 3759443.5 193.9 3.49 4.00
3.25 YES
L0003559 0 0.66220E-06 444536.5 3759450.4 194.0 3.49 4.00
3.25 YES
L0003560 0 0.66220E-06 444531.4 3759457.3 194.0 3.49 4.00
3.25 YES
L0003561 0 0.66220E-06 444526.2 3759464.1 194.1 3.49 4.00
3.25 YES
L0003562 0 0.78570E-06 444739.7 3759388.3 194.4 3.49 4.00
3.25 YES
L0003563 0 0.78570E-06 444732.8 3759383.1 194.3 3.49 4.00
3.25 YES
L0003564 0 0.78570E-06 444726.0 3759377.9 194.2 3.49 4.00
3.25 YES
L0003565 0 0.78570E-06 444719.1 3759372.7 194.1 3.49 4.00
3.25 YES
L0003566 0 0.78570E-06 444712.3 3759367.5 194.1 3.49 4.00
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY

L0003567	0	0.78570E-06	444705.4	3759362.3	194.0	3.49	4.00	3.25 YES
L0003568	0	0.78570E-06	444698.6	3759357.1	194.0	3.49	4.00	3.25 YES
L0003569	0	0.11200E-05	444872.8	3759377.8	195.2	3.49	4.00	3.25 YES
L0003570	0	0.11200E-05	444881.4	3759377.9	195.2	3.49	4.00	3.25 YES
L0003571	0	0.11200E-05	444890.0	3759378.1	195.2	3.49	4.00	3.25 YES
L0003572	0	0.11200E-05	444898.6	3759378.2	195.2	3.49	4.00	3.25 YES
L0003573	0	0.11200E-05	444907.2	3759378.4	195.2	3.49	4.00	3.25 YES
L0003574	0	0.11200E-05	444915.8	3759378.5	195.2	3.49	4.00	3.25 YES
L0003575	0	0.11200E-05	444924.3	3759378.6	195.2	3.49	4.00	3.25 YES
L0003576	0	0.11200E-05	444932.9	3759378.8	195.2	3.49	4.00	3.25 YES
L0003577	0	0.11200E-05	444941.5	3759378.9	195.2	3.49	4.00	3.25 YES
L0003578	0	0.11200E-05	444950.1	3759379.1	195.2	3.49	4.00	3.25 YES
L0003579	0	0.11200E-05	444958.7	3759379.2	195.2	3.49	4.00	3.25 YES
L0003580	0	0.11200E-05	444967.3	3759379.4	195.3	3.49	4.00	3.25 YES
L0003581	0	0.11200E-05	444975.9	3759379.5	195.5	3.49	4.00	3.25 YES
L0003582	0	0.11200E-05	444984.5	3759379.7	195.6	3.49	4.00	3.25 YES
L0003583	0	0.11200E-05	444993.1	3759379.8	195.7	3.49	4.00	3.25 YES
L0003584	0	0.11200E-05	445001.6	3759380.0	195.8	3.49	4.00	3.25 YES
L0003585	0	0.11200E-05	445010.2	3759380.1	195.9	3.49	4.00	3.25 YES
L0003586	0	0.11200E-05	445018.8	3759380.3	196.0	3.49	4.00	3.25 YES
L0003587	0	0.11200E-05	445027.4	3759380.4	196.1	3.49	4.00	3.25 YES
L0003588	0	0.11200E-05	445036.0	3759380.5	196.2	3.49	4.00	3.25 YES
L0003589	0	0.11200E-05	445044.6	3759380.7	196.4	3.49	4.00	

3.25 YES
L0003590 0 0.11200E-05 445053.2 3759380.8 196.5 3.49 4.00
3.25 YES
L0003591 0 0.11200E-05 445061.8 3759381.0 196.6 3.49 4.00
3.25 YES
L0003592 0 0.11200E-05 445070.4 3759381.1 196.7 3.49 4.00
3.25 YES
L0003593 0 0.11200E-05 445078.9 3759381.3 196.8 3.49 4.00
3.25 YES
L0003594 0 0.11200E-05 445087.5 3759381.4 196.9 3.49 4.00
3.25 YES
L0003595 0 0.11200E-05 445096.1 3759381.6 197.0 3.49 4.00
3.25 YES
L0003596 0 0.39420E-06 444968.7 3759608.2 197.7 3.49 4.00
3.25 YES
L0003597 0 0.39420E-06 444968.1 3759616.8 197.8 3.49 4.00
3.25 YES
L0003598 0 0.39420E-06 444967.6 3759625.4 197.9 3.49 4.00
3.25 YES
L0003599 0 0.39420E-06 444967.0 3759633.9 198.0 3.49 4.00
3.25 YES
L0003600 0 0.39420E-06 444966.4 3759642.5 198.1 3.49 4.00
3.25 YES
L0003601 0 0.39420E-06 444965.9 3759651.1 198.2 3.49 4.00
3.25 YES
L0003602 0 0.39420E-06 444965.3 3759659.7 198.2 3.49 4.00
3.25 YES
L0003603 0 0.39420E-06 444964.7 3759668.2 198.4 3.49 4.00
3.25 YES
L0003604 0 0.39420E-06 444964.2 3759676.8 198.4 3.49 4.00
3.25 YES
L0003605 0 0.39420E-06 444964.5 3759685.2 198.5 3.49 4.00
3.25 YES
L0003606 0 0.39420E-06 444967.9 3759693.1 198.6 3.49 4.00
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE

SOURCE ID	PART. SCALAR CATS.	(GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ SOURCE
L0003607	0	0.39420E-06	444971.6	3759700.7	198.7	3.49	4.00	3.25 YES
L0003608	0	0.39420E-06	444979.8	3759703.1	198.7	3.49	4.00	3.25 YES
L0003609	0	0.39420E-06	444988.1	3759705.5	198.8	3.49	4.00	3.25 YES
L0003610	0	0.39420E-06	444996.3	3759707.9	198.8	3.49	4.00	3.25 YES
L0003611	0	0.39420E-06	445004.6	3759710.3	198.8	3.49	4.00	3.25 YES
L0003612	0	0.39420E-06	445012.8	3759712.7	198.8	3.49	4.00	3.25 YES
L0003613	0	0.39420E-06	445021.1	3759715.1	198.9	3.49	4.00	3.25 YES
L0003614	0	0.39420E-06	445029.3	3759717.5	198.9	3.49	4.00	3.25 YES
L0003615	0	0.39420E-06	445037.6	3759719.9	198.9	3.49	4.00	3.25 YES
L0003616	0	0.39420E-06	445045.8	3759722.3	199.0	3.49	4.00	3.25 YES
L0003617	0	0.39420E-06	445054.1	3759724.6	199.2	3.49	4.00	3.25 YES
L0003618	0	0.39420E-06	445062.3	3759727.0	199.3	3.49	4.00	3.25 YES
L0003619	0	0.39420E-06	445070.6	3759729.4	199.4	3.49	4.00	3.25 YES
L0003620	0	0.39420E-06	445078.8	3759731.8	199.6	3.49	4.00	3.25 YES
L0003621	0	0.39420E-06	445087.1	3759734.2	199.7	3.49	4.00	3.25 YES
L0003622	0	0.39420E-06	445095.1	3759737.3	199.9	3.49	4.00	3.25 YES
L0003623	0	0.39420E-06	445102.9	3759740.8	200.0	3.49	4.00	3.25 YES
L0003624	0	0.39420E-06	445110.8	3759744.2	200.1	3.49	4.00	3.25 YES
L0003625	0	0.39420E-06	445118.6	3759747.7	200.2	3.49	4.00	3.25 YES
L0003626	0	0.39420E-06	445126.5	3759751.2	200.1	3.49	4.00	3.25 YES
L0003627	0	0.39420E-06	445134.4	3759754.6	200.0	3.49	4.00	

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3.25     YES
 L0003628         0   0.39420E-06  445142.2 3759758.1   200.0     3.49     4.00
3.25     YES
 L0003629         0   0.39420E-06  445150.1 3759761.6   199.9     3.49     4.00
3.25     YES
 L0003630         0   0.39420E-06  445157.9 3759765.1   199.9     3.49     4.00
3.25     YES
 L0003631         0   0.39420E-06  445165.8 3759768.5   199.8     3.49     4.00
3.25     YES
 L0003632         0   0.39420E-06  445173.6 3759772.0   199.7     3.49     4.00
3.25     YES
 L0003633         0   0.39420E-06  445181.5 3759775.5   199.7     3.49     4.00
3.25     YES
 L0003634         0   0.17980E-06  444819.0 3759566.7   196.4     3.49     4.00
3.25     YES
 L0003635         0   0.17980E-06  444819.0 3759575.3   196.5     3.49     4.00
3.25     YES
 L0003636         0   0.17980E-06  444819.0 3759583.9   196.6     3.49     4.00
3.25     YES
 L0003637         0   0.17980E-06  444819.0 3759592.5   196.7     3.49     4.00
3.25     YES
 L0003638         0   0.17980E-06  444817.3 3759600.8   196.8     3.49     4.00
3.25     YES
 L0003639         0   0.17980E-06  444815.1 3759609.1   196.8     3.49     4.00
3.25     YES
 L0003640         0   0.17980E-06  444812.8 3759617.4   196.9     3.49     4.00
3.25     YES
 L0003641         0   0.17980E-06  444810.5 3759625.7   196.9     3.49     4.00
3.25     YES
 L0003642         0   0.17980E-06  444810.3 3759634.2   197.0     3.49     4.00
3.25     YES
 L0003643         0   0.17980E-06  444817.0 3759638.5   197.2     3.49     4.00
3.25     YES
 L0003644         0   0.17980E-06  444824.8 3759642.0   197.3     3.49     4.00
3.25     YES
 L0003645         0   0.17980E-06  444832.7 3759645.5   197.4     3.49     4.00
3.25     YES
 L0003646         0   0.17980E-06  444840.5 3759649.1   197.5     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:27:00

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0003647	0	0.17980E-06	444848.3	3759652.6	197.6	3.49	4.00	3.25	YES	
L0003648	0	0.17980E-06	444856.2	3759656.1	197.7	3.49	4.00	3.25	YES	
L0003649	0	0.17980E-06	444864.5	3759658.0	197.8	3.49	4.00	3.25	YES	
L0003650	0	0.17980E-06	444872.9	3759660.0	197.9	3.49	4.00	3.25	YES	
L0003651	0	0.17980E-06	444881.3	3759662.0	198.0	3.49	4.00	3.25	YES	
L0003652	0	0.17980E-06	444889.6	3759663.9	198.0	3.49	4.00	3.25	YES	
L0003653	0	0.17980E-06	444898.0	3759665.9	198.1	3.49	4.00	3.25	YES	
L0003654	0	0.17980E-06	444906.3	3759667.9	198.1	3.49	4.00	3.25	YES	
L0003655	0	0.17980E-06	444914.7	3759669.8	198.2	3.49	4.00	3.25	YES	
L0003656	0	0.17980E-06	444923.1	3759671.8	198.2	3.49	4.00	3.25	YES	
L0003657	0	0.17980E-06	444931.4	3759673.7	198.2	3.49	4.00	3.25	YES	
L0003658	0	0.17980E-06	444939.8	3759675.7	198.3	3.49	4.00	3.25	YES	
L0003659	0	0.17980E-06	444948.2	3759677.4	198.4	3.49	4.00	3.25	YES	
L0003660	0	0.17980E-06	444956.6	3759679.1	198.4	3.49	4.00	3.25	YES	
L0003661	0	0.17980E-06	444963.8	3759678.1	198.5	3.49	4.00	3.25	YES	
L0003662	0	0.17980E-06	444964.5	3759669.6	198.4	3.49	4.00	3.25	YES	
L0003663	0	0.17980E-06	444965.2	3759661.0	198.3	3.49	4.00	3.25	YES	
L0003664	0	0.17980E-06	444965.8	3759652.4	198.2	3.49	4.00	3.25	YES	
L0003665	0	0.17980E-06	444966.5	3759643.9	198.1	3.49	4.00			

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3.25     YES
 L0003666         0   0.17980E-06  444967.2 3759635.3   198.0     3.49     4.00
3.25     YES
 L0003667         0   0.17980E-06  444967.8 3759626.7   197.9     3.49     4.00
3.25     YES
 L0003668         0   0.17980E-06  444968.5 3759618.2   197.8     3.49     4.00
3.25     YES
 L0003669         0   0.17980E-06  444969.2 3759609.6   197.7     3.49     4.00
3.25     YES
 L0003670         0   0.11660E-06  444724.2 3759607.6   196.6     3.49     4.00
3.25     YES
 L0003671         0   0.11660E-06  444732.3 3759610.6   196.7     3.49     4.00
3.25     YES
 L0003672         0   0.11660E-06  444740.3 3759613.5   196.7     3.49     4.00
3.25     YES
 L0003673         0   0.11660E-06  444748.4 3759616.5   196.8     3.49     4.00
3.25     YES
 L0003674         0   0.11660E-06  444756.5 3759619.4   196.8     3.49     4.00
3.25     YES
 L0003675         0   0.11660E-06  444764.5 3759622.4   196.8     3.49     4.00
3.25     YES
 L0003676         0   0.11660E-06  444772.8 3759624.1   196.9     3.49     4.00
3.25     YES
 L0003677         0   0.11660E-06  444779.3 3759619.2   196.8     3.49     4.00
3.25     YES
 L0003678         0   0.11660E-06  444784.7 3759612.6   196.7     3.49     4.00
3.25     YES
 L0003679         0   0.11660E-06  444789.9 3759605.7   196.7     3.49     4.00
3.25     YES
 L0003680         0   0.11660E-06  444795.0 3759598.8   196.6     3.49     4.00
3.25     YES
 L0003681         0   0.11660E-06  444798.1 3759590.8   196.5     3.49     4.00
3.25     YES
 L0003682         0   0.11660E-06  444801.1 3759582.8   196.4     3.49     4.00
3.25     YES
 L0003683         0   0.11660E-06  444806.1 3759575.8   196.3     3.49     4.00
3.25     YES
 L0003684         0   0.11660E-06  444811.5 3759569.1   196.3     3.49     4.00
3.25     YES
 L0003685         0   0.11660E-06  444816.8 3759562.4   196.3     3.49     4.00
3.25     YES
 L0003686         0   0.19520E-06  444625.6 3759464.0   194.7     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                       ***         10:27:00
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0003687	0	0.19520E-06	444620.3	3759470.8	194.7	3.49	4.00	3.25	YES	
L0003688	0	0.19520E-06	444615.1	3759477.6	194.7	3.49	4.00	3.25	YES	
L0003689	0	0.19520E-06	444609.9	3759484.4	194.6	3.49	4.00	3.25	YES	
L0003690	0	0.19520E-06	444604.7	3759491.2	194.6	3.49	4.00	3.25	YES	
L0003691	0	0.19520E-06	444599.4	3759498.0	194.7	3.49	4.00	3.25	YES	
L0003692	0	0.19520E-06	444594.2	3759504.9	194.7	3.49	4.00	3.25	YES	
L0003693	0	0.19520E-06	444589.0	3759511.7	194.7	3.49	4.00	3.25	YES	
L0003694	0	0.19520E-06	444583.8	3759518.5	194.7	3.49	4.00	3.25	YES	
L0003695	0	0.19520E-06	444578.5	3759525.3	194.8	3.49	4.00	3.25	YES	
L0003696	0	0.19520E-06	444578.5	3759531.9	194.9	3.49	4.00	3.25	YES	
L0003697	0	0.19520E-06	444584.3	3759538.2	194.9	3.49	4.00	3.25	YES	
L0003698	0	0.19520E-06	444590.9	3759543.6	195.0	3.49	4.00	3.25	YES	
L0003699	0	0.19520E-06	444598.5	3759547.5	195.0	3.49	4.00	3.25	YES	
L0003700	0	0.19520E-06	444606.2	3759551.4	195.1	3.49	4.00	3.25	YES	
L0003701	0	0.19520E-06	444613.8	3759555.3	195.1	3.49	4.00	3.25	YES	
L0003702	0	0.19520E-06	444621.5	3759559.2	195.1	3.49	4.00	3.25	YES	
L0003703	0	0.19520E-06	444629.1	3759563.1	195.2	3.49	4.00			

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3.25     YES
 L0003704         0   0.19520E-06  444636.8 3759567.0   195.2     3.49     4.00
3.25     YES
 L0003705         0   0.19520E-06  444644.4 3759570.9   195.3     3.49     4.00
3.25     YES
 L0003706         0   0.19520E-06  444652.1 3759574.8   195.3     3.49     4.00
3.25     YES
 L0003707         0   0.19520E-06  444659.7 3759578.7   195.5     3.49     4.00
3.25     YES
 L0003708         0   0.19520E-06  444667.4 3759582.6   195.6     3.49     4.00
3.25     YES
 L0003709         0   0.19520E-06  444675.0 3759586.5   195.7     3.49     4.00
3.25     YES
 L0003710         0   0.19520E-06  444682.7 3759590.4   195.9     3.49     4.00
3.25     YES
 L0003711         0   0.19520E-06  444690.8 3759593.0   196.0     3.49     4.00
3.25     YES
 L0003712         0   0.19520E-06  444697.9 3759591.4   196.1     3.49     4.00
3.25     YES
 L0003713         0   0.19520E-06  444702.5 3759584.1   196.1     3.49     4.00
3.25     YES
 L0003714         0   0.19520E-06  444707.1 3759576.9   196.1     3.49     4.00
3.25     YES
 L0003715         0   0.19520E-06  444711.7 3759569.6   196.0     3.49     4.00
3.25     YES
 L0003716         0   0.19520E-06  444716.3 3759562.4   196.0     3.49     4.00
3.25     YES
 L0003717         0   0.19520E-06  444720.9 3759555.1   196.0     3.49     4.00
3.25     YES
 L0003718         0   0.19520E-06  444725.6 3759547.9   196.0     3.49     4.00
3.25     YES
 L0003719         0   0.19520E-06  444730.2 3759540.7   196.0     3.49     4.00
3.25     YES
 L0003720         0   0.19520E-06  444734.8 3759533.4   195.9     3.49     4.00
3.25     YES
 L0003721         0   0.16000E-06  444550.1 3759395.9   193.4     3.49     4.00
3.25     YES
 L0003722         0   0.16000E-06  444544.8 3759402.7   193.5     3.49     4.00
3.25     YES
 L0003723         0   0.16000E-06  444539.6 3759409.5   193.5     3.49     4.00
3.25     YES
 L0003724         0   0.16000E-06  444534.4 3759416.3   193.6     3.49     4.00
3.25     YES
 L0003725         0   0.16000E-06  444529.1 3759423.1   193.7     3.49     4.00
3.25     YES
 L0003726         0   0.16000E-06  444523.9 3759429.9   193.7     3.49     4.00
3.25     YES
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE VARY
L0003727	0	0.16000E-06	444518.6	3759436.7	193.8	3.49	4.00	3.25	YES	
L0003728	0	0.21680E-06	444763.2	3759478.0	195.3	3.49	4.00	3.25	YES	
L0003729	0	0.21680E-06	444767.1	3759470.3	195.2	3.49	4.00	3.25	YES	
L0003730	0	0.21680E-06	444770.9	3759462.6	195.1	3.49	4.00	3.25	YES	
L0003731	0	0.21680E-06	444774.7	3759454.9	195.0	3.49	4.00	3.25	YES	
L0003732	0	0.21680E-06	444778.5	3759447.2	195.0	3.49	4.00	3.25	YES	
L0003733	0	0.21680E-06	444781.8	3759439.3	195.0	3.49	4.00	3.25	YES	
L0003734	0	0.21680E-06	444784.9	3759431.2	194.9	3.49	4.00	3.25	YES	
L0003735	0	0.21680E-06	444788.0	3759423.2	194.9	3.49	4.00	3.25	YES	
L0003736	0	0.21680E-06	444791.1	3759415.2	194.9	3.49	4.00	3.25	YES	
L0003737	0	0.21680E-06	444794.2	3759407.2	194.9	3.49	4.00	3.25	YES	
L0003738	0	0.21680E-06	444796.3	3759399.1	194.9	3.49	4.00	3.25	YES	
L0003739	0	0.21680E-06	444793.9	3759390.9	194.9	3.49	4.00	3.25	YES	
L0003740	0	0.21680E-06	444786.5	3759386.5	194.8	3.49	4.00	3.25	YES	
L0003741	0	0.21680E-06	444779.1	3759382.2	194.8	3.49	4.00			

3.25 YES							
L0003742	0	0.21680E-06	444771.7	3759377.8	194.7	3.49	4.00
3.25 YES							
L0003743	0	0.21680E-06	444764.3	3759373.5	194.6	3.49	4.00
3.25 YES							
L0003744	0	0.21680E-06	444756.9	3759369.2	194.4	3.49	4.00
3.25 YES							
L0003745	0	0.21680E-06	444749.5	3759364.8	194.3	3.49	4.00
3.25 YES							
L0003746	0	0.21680E-06	444742.0	3759360.5	194.2	3.49	4.00
3.25 YES							
L0003747	0	0.21680E-06	444734.1	3759357.3	194.1	3.49	4.00
3.25 YES							
L0003748	0	0.21680E-06	444726.0	3759354.6	193.9	3.49	4.00
3.25 YES							
L0003749	0	0.21680E-06	444717.8	3759351.9	193.9	3.49	4.00
3.25 YES							
L0003750	0	0.21680E-06	444709.7	3759349.2	193.9	3.49	4.00
3.25 YES							
L0003751	0	0.21680E-06	444701.5	3759346.4	193.9	3.49	4.00
3.25 YES							
L0003752	0	0.21680E-06	444693.4	3759343.7	193.8	3.49	4.00
3.25 YES							
L0003753	0	0.21680E-06	444685.1	3759341.6	193.8	3.49	4.00
3.25 YES							
L0003754	0	0.21680E-06	444676.5	3759341.9	193.8	3.49	4.00
3.25 YES							
L0003755	0	0.21680E-06	444668.0	3759342.2	193.8	3.49	4.00
3.25 YES							
L0003756	0	0.21680E-06	444659.4	3759342.4	193.8	3.49	4.00
3.25 YES							
L0003757	0	0.21680E-06	444650.8	3759342.7	193.8	3.49	4.00
3.25 YES							
L0003758	0	0.21680E-06	444642.2	3759343.0	193.7	3.49	4.00
3.25 YES							
L0003759	0	0.21680E-06	444633.6	3759343.3	193.6	3.49	4.00
3.25 YES							
L0003760	0	0.21680E-06	444625.0	3759343.6	193.5	3.49	4.00
3.25 YES							
L0003761	0	0.21680E-06	444616.6	3759345.0	193.4	3.49	4.00
3.25 YES							
L0003762	0	0.21680E-06	444608.5	3759347.6	193.3	3.49	4.00
3.25 YES							
L0003763	0	0.21680E-06	444600.3	3759350.2	193.2	3.49	4.00
3.25 YES							
L0003764	0	0.21680E-06	444592.1	3759352.8	193.2	3.49	4.00
3.25 YES							
L0003765	0	0.11990E-05	444763.0	3759477.9	195.3	0.00	4.00

3.25 YES
L0003766 0 0.11990E-05 444766.6 3759470.0 195.2 0.00 4.00
3.25 YES
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** *** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003767	0	0.11990E-05	444770.1	3759462.2	195.1	0.00	4.00	3.25	YES	
L0003768	0	0.11990E-05	444773.7	3759454.4	195.0	0.00	4.00	3.25	YES	
L0003769	0	0.11990E-05	444777.3	3759446.6	195.0	0.00	4.00	3.25	YES	
L0003770	0	0.11990E-05	444780.8	3759438.8	195.0	0.00	4.00	3.25	YES	
L0003771	0	0.11990E-05	444784.0	3759430.8	194.9	0.00	4.00	3.25	YES	
L0003772	0	0.11990E-05	444786.6	3759422.6	194.9	0.00	4.00	3.25	YES	
L0003773	0	0.11990E-05	444789.3	3759414.5	194.9	0.00	4.00	3.25	YES	
L0003774	0	0.11990E-05	444791.9	3759406.3	194.9	0.00	4.00	3.25	YES	
L0003775	0	0.11990E-05	444794.6	3759398.1	194.9	0.00	4.00	3.25	YES	
L0003776	0	0.11990E-05	444797.3	3759390.0	194.9	0.00	4.00	3.25	YES	
L0003777	0	0.11990E-05	444801.3	3759382.4	195.0	0.00	4.00	3.25	YES	
L0003778	0	0.11990E-05	444805.4	3759374.8	195.0	0.00	4.00	3.25	YES	
L0003779	0	0.11990E-05	444810.1	3759368.1	195.0	0.00	4.00			

3.25 YES							
L0003780	0	0.11990E-05	444818.4	3759366.0	195.0	0.00	4.00
3.25 YES							
L0003781	0	0.11990E-05	444826.7	3759363.9	195.0	0.00	4.00
3.25 YES							
L0003782	0	0.11990E-05	444835.1	3759361.8	195.0	0.00	4.00
3.25 YES							
L0003783	0	0.11990E-05	444843.6	3759362.0	195.0	0.00	4.00
3.25 YES							
L0003784	0	0.11990E-05	444852.2	3759362.3	195.0	0.00	4.00
3.25 YES							
L0003785	0	0.11990E-05	444860.8	3759362.6	195.0	0.00	4.00
3.25 YES							
L0003786	0	0.11990E-05	444869.4	3759363.0	195.0	0.00	4.00
3.25 YES							
L0003787	0	0.11990E-05	444878.0	3759363.3	195.0	0.00	4.00
3.25 YES							
L0003788	0	0.11990E-05	444886.5	3759363.5	195.0	0.00	4.00
3.25 YES							
L0003789	0	0.11990E-05	444895.1	3759363.5	195.0	0.00	4.00
3.25 YES							
L0003790	0	0.11990E-05	444903.7	3759363.4	195.0	0.00	4.00
3.25 YES							
L0003791	0	0.11990E-05	444912.3	3759363.4	195.0	0.00	4.00
3.25 YES							
L0003792	0	0.11990E-05	444920.9	3759363.3	195.0	0.00	4.00
3.25 YES							
L0003793	0	0.11990E-05	444929.5	3759363.2	195.0	0.00	4.00
3.25 YES							
L0003794	0	0.11990E-05	444938.1	3759363.2	195.0	0.00	4.00
3.25 YES							
L0003795	0	0.11990E-05	444946.7	3759363.1	195.0	0.00	4.00
3.25 YES							
L0003796	0	0.11990E-05	444955.3	3759363.1	195.0	0.00	4.00
3.25 YES							
L0003797	0	0.11990E-05	444963.9	3759363.0	195.1	0.00	4.00
3.25 YES							
L0003798	0	0.11990E-05	444972.4	3759362.9	195.2	0.00	4.00
3.25 YES							
L0003799	0	0.11990E-05	444981.0	3759362.9	195.3	0.00	4.00
3.25 YES							
L0003800	0	0.11990E-05	444989.6	3759362.8	195.5	0.00	4.00
3.25 YES							
L0003801	0	0.11990E-05	444998.2	3759362.8	195.6	0.00	4.00
3.25 YES							
L0003802	0	0.11990E-05	445006.8	3759362.7	195.7	0.00	4.00
3.25 YES							
L0003803	0	0.11990E-05	445015.4	3759362.6	195.8	0.00	4.00

3.25 YES
L0003804 0 0.11990E-05 445024.0 3759362.6 195.9 0.00 4.00
3.25 YES
L0003805 0 0.11990E-05 445032.6 3759362.5 196.0 0.00 4.00
3.25 YES
L0003806 0 0.11990E-05 445041.2 3759362.5 196.1 0.00 4.00
3.25 YES
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** *** *** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0003807	0	0.11990E-05	445049.7	3759362.3	196.2	0.00	4.00	3.25	YES	
L0003808	0	0.11990E-05	445058.3	3759362.0	196.3	0.00	4.00	3.25	YES	
L0003809	0	0.11990E-05	445066.9	3759361.7	196.4	0.00	4.00	3.25	YES	
L0003810	0	0.11990E-05	445075.5	3759361.5	196.6	0.00	4.00	3.25	YES	
L0003811	0	0.11990E-05	445084.1	3759361.2	196.7	0.00	4.00	3.25	YES	
L0003812	0	0.11990E-05	445092.7	3759360.9	196.8	0.00	4.00	3.25	YES	
L0003813	0	0.11990E-05	445101.3	3759360.6	196.9	0.00	4.00	3.25	YES	
L0003814	0	0.11990E-05	445109.8	3759360.4	197.0	0.00	4.00	3.25	YES	
L0003815	0	0.11990E-05	445118.4	3759360.1	196.9	0.00	4.00	3.25	YES	
L0003816	0	0.11990E-05	445126.9	3759359.5	196.8	0.00	4.00	3.25	YES	
L0003817	0	0.11990E-05	445132.3	3759352.9	196.7	0.00	4.00			

3.25 YES							
L0003818	0	0.11990E-05	445138.3	3759347.0	196.5	0.00	4.00
3.25 YES							
L0003819	0	0.11990E-05	445146.6	3759345.0	196.4	0.00	4.00
3.25 YES							
L0003820	0	0.11990E-05	445155.0	3759343.1	196.3	0.00	4.00
3.25 YES							
L0003821	0	0.11990E-05	445163.3	3759341.1	196.2	0.00	4.00
3.25 YES							
L0003822	0	0.11990E-05	445171.7	3759339.1	196.0	0.00	4.00
3.25 YES							
L0003823	0	0.11990E-05	445180.1	3759337.1	195.9	0.00	4.00
3.25 YES							
L0003824	0	0.28590E-07	445197.8	3759800.8	199.7	3.49	4.00
3.25 YES							
L0003825	0	0.28590E-07	445198.2	3759792.2	199.6	3.49	4.00
3.25 YES							
L0003826	0	0.28590E-07	445198.7	3759783.6	199.5	3.49	4.00
3.25 YES							
L0003827	0	0.76430E-07	445197.9	3759800.2	199.7	3.49	4.00
3.25 YES							
L0003828	0	0.76430E-07	445200.0	3759791.9	199.6	3.49	4.00
3.25 YES							
L0003829	0	0.76430E-07	445202.1	3759783.5	199.5	3.49	4.00
3.25 YES							
L0003830	0	0.76430E-07	445204.2	3759775.2	199.4	3.49	4.00
3.25 YES							
L0003831	0	0.76430E-07	445206.2	3759766.9	199.2	3.49	4.00
3.25 YES							
L0003832	0	0.76430E-07	445208.3	3759758.5	199.1	3.49	4.00
3.25 YES							
L0003833	0	0.76430E-07	445210.4	3759750.2	199.0	3.49	4.00
3.25 YES							
L0003834	0	0.76430E-07	445212.5	3759741.9	198.9	3.49	4.00
3.25 YES							
L0003835	0	0.76430E-07	445214.6	3759733.5	198.8	3.49	4.00
3.25 YES							
L0003836	0	0.76430E-07	445216.6	3759725.2	198.7	3.49	4.00
3.25 YES							
L0003837	0	0.76430E-07	445218.7	3759716.8	198.5	3.49	4.00
3.25 YES							
L0003838	0	0.76430E-07	445219.9	3759708.4	198.4	3.49	4.00
3.25 YES							
L0003839	0	0.76430E-07	445219.8	3759699.8	198.3	3.49	4.00
3.25 YES							
L0003840	0	0.76430E-07	445219.7	3759691.2	198.2	3.49	4.00
3.25 YES							
L0003841	0	0.76430E-07	445219.6	3759682.6	198.2	3.49	4.00

```
3.25     YES
 L0003842         0   0.76430E-07  445219.5 3759674.1   198.1     3.49     4.00
3.25     YES
 L0003843         0   0.76430E-07  445219.4 3759665.5   198.0     3.49     4.00
3.25     YES
 L0003844         0   0.76430E-07  445219.3 3759656.9   197.9     3.49     4.00
3.25     YES
 L0003845         0   0.76430E-07  445219.2 3759648.3   197.8     3.49     4.00
3.25     YES
 L0003846         0   0.76430E-07  445219.1 3759639.7   197.7     3.49     4.00
3.25     YES
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                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 L0003847         0   0.76430E-07  445219.0 3759631.1   197.6     3.49     4.00
3.25     YES
 L0003848         0   0.76430E-07  445218.9 3759622.5   197.5     3.49     4.00
3.25     YES
 L0003849         0   0.76430E-07  445218.8 3759613.9   197.4     3.49     4.00
3.25     YES
 L0003850         0   0.76430E-07  445218.7 3759605.3   197.3     3.49     4.00
3.25     YES
 L0003851         0   0.76430E-07  445218.6 3759596.7   197.2     3.49     4.00
3.25     YES
 L0003852         0   0.76430E-07  445218.5 3759588.2   197.1     3.49     4.00
3.25     YES
 L0003853         0   0.76430E-07  445218.4 3759579.6   197.0     3.49     4.00
3.25     YES
 L0003854         0   0.76430E-07  445218.3 3759571.0   197.0     3.49     4.00
3.25     YES
 L0003855         0   0.76430E-07  445217.8 3759562.4   196.9     3.49     4.00
```

3.25 YES							
L0003856	0	0.76430E-07	445217.2	3759553.8	196.8	3.49	4.00
3.25 YES							
L0003857	0	0.76430E-07	445216.7	3759545.3	196.7	3.49	4.00
3.25 YES							
L0003858	0	0.76430E-07	445216.8	3759536.7	196.6	3.49	4.00
3.25 YES							
L0003859	0	0.76430E-07	445216.8	3759528.1	196.5	3.49	4.00
3.25 YES							
L0003860	0	0.76430E-07	445216.9	3759519.5	196.4	3.49	4.00
3.25 YES							
L0003861	0	0.76430E-07	445216.9	3759510.9	196.3	3.49	4.00
3.25 YES							
L0003862	0	0.76430E-07	445217.0	3759502.3	196.2	3.49	4.00
3.25 YES							
L0003863	0	0.76430E-07	445217.0	3759493.7	196.1	3.49	4.00
3.25 YES							
L0003864	0	0.76430E-07	445217.1	3759485.1	196.0	3.49	4.00
3.25 YES							
L0003865	0	0.76430E-07	445217.1	3759476.5	195.9	3.49	4.00
3.25 YES							
L0003866	0	0.76430E-07	445217.2	3759468.0	195.8	3.49	4.00
3.25 YES							
L0003867	0	0.76430E-07	445217.2	3759459.4	195.8	3.49	4.00
3.25 YES							
L0003868	0	0.76430E-07	445217.3	3759450.8	195.7	3.49	4.00
3.25 YES							
L0003869	0	0.76430E-07	445217.3	3759442.2	195.6	3.49	4.00
3.25 YES							
L0003870	0	0.76430E-07	445217.4	3759433.6	195.6	3.49	4.00
3.25 YES							
L0003871	0	0.76430E-07	445217.4	3759425.0	195.5	3.49	4.00
3.25 YES							
L0003872	0	0.76430E-07	445217.5	3759416.4	195.5	3.49	4.00
3.25 YES							
L0003873	0	0.76430E-07	445217.5	3759407.8	195.5	3.49	4.00
3.25 YES							
L0003874	0	0.76430E-07	445217.6	3759399.2	195.4	3.49	4.00
3.25 YES							
L0003875	0	0.76430E-07	445217.6	3759390.6	195.4	3.49	4.00
3.25 YES							
L0003876	0	0.76430E-07	445217.7	3759382.1	195.4	3.49	4.00
3.25 YES							
L0003877	0	0.76430E-07	445217.7	3759373.5	195.3	3.49	4.00
3.25 YES							
L0003878	0	0.76430E-07	445217.8	3759364.9	195.3	3.49	4.00
3.25 YES							
L0003879	0	0.76430E-07	445217.8	3759356.3	195.2	3.49	4.00

3.25 YES
L0003880 0 0.76430E-07 445217.9 3759347.7 195.2 3.49 4.00
3.25 YES
L0003881 0 0.76430E-07 445217.9 3759339.1 195.1 3.49 4.00
3.25 YES
L0003882 0 0.76430E-07 445214.2 3759334.1 195.1 3.49 4.00
3.25 YES
L0003883 0 0.76430E-07 445205.6 3759333.7 195.3 3.49 4.00
3.25 YES
L0003884 0 0.76430E-07 445197.0 3759333.3 195.5 3.49 4.00
3.25 YES
L0003885 0 0.10120E-06 445196.3 3759811.0 199.9 3.49 4.00
3.25 YES
L0003886 0 0.10120E-06 445198.5 3759802.7 199.7 3.49 4.00
3.25 YES
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** *** *** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003887	0	0.10120E-06	445200.7	3759794.4	199.6	3.49	4.00	3.25	YES	
L0003888	0	0.10120E-06	445202.9	3759786.1	199.5	3.49	4.00	3.25	YES	
L0003889	0	0.10120E-06	445205.1	3759777.8	199.4	3.49	4.00	3.25	YES	
L0003890	0	0.10120E-06	445207.3	3759769.5	199.3	3.49	4.00	3.25	YES	
L0003891	0	0.10120E-06	445209.5	3759761.2	199.1	3.49	4.00	3.25	YES	
L0003892	0	0.10120E-06	445211.6	3759752.9	199.0	3.49	4.00	3.25	YES	
L0003893	0	0.10120E-06	445213.5	3759744.5	198.9	3.49	4.00			

3.25 YES							
L0003894	0	0.10120E-06	445215.3	3759736.1	198.8	3.49	4.00
3.25 YES							
L0003895	0	0.10120E-06	445217.1	3759727.7	198.7	3.49	4.00
3.25 YES							
L0003896	0	0.10120E-06	445218.9	3759719.3	198.6	3.49	4.00
3.25 YES							
L0003897	0	0.10120E-06	445219.0	3759710.8	198.5	3.49	4.00
3.25 YES							
L0003898	0	0.10120E-06	445218.7	3759702.2	198.4	3.49	4.00
3.25 YES							
L0003899	0	0.10120E-06	445218.5	3759693.6	198.3	3.49	4.00
3.25 YES							
L0003900	0	0.10120E-06	445218.2	3759685.0	198.2	3.49	4.00
3.25 YES							
L0003901	0	0.10120E-06	445217.9	3759676.4	198.1	3.49	4.00
3.25 YES							
L0003902	0	0.10120E-06	445217.7	3759667.8	198.0	3.49	4.00
3.25 YES							
L0003903	0	0.10120E-06	445217.4	3759659.2	197.9	3.49	4.00
3.25 YES							
L0003904	0	0.10120E-06	445217.1	3759650.7	197.8	3.49	4.00
3.25 YES							
L0003905	0	0.10120E-06	445216.8	3759642.1	197.7	3.49	4.00
3.25 YES							
L0003906	0	0.10120E-06	445216.6	3759633.5	197.7	3.49	4.00
3.25 YES							
L0003907	0	0.10120E-06	445216.3	3759624.9	197.6	3.49	4.00
3.25 YES							
L0003908	0	0.10120E-06	445216.0	3759616.3	197.5	3.49	4.00
3.25 YES							
L0003909	0	0.10120E-06	445215.8	3759607.7	197.4	3.49	4.00
3.25 YES							
L0003910	0	0.10120E-06	445215.3	3759599.3	197.3	3.49	4.00
3.25 YES							
L0003911	0	0.10120E-06	445206.7	3759599.4	197.4	3.49	4.00
3.25 YES							
L0003912	0	0.10120E-06	445198.1	3759599.5	197.5	3.49	4.00
3.25 YES							
L0003913	0	0.10120E-06	445189.5	3759599.5	197.6	3.49	4.00
3.25 YES							
L0003914	0	0.10120E-06	445181.0	3759599.6	197.7	3.49	4.00
3.25 YES							
L0003915	0	0.10120E-06	445172.4	3759599.7	197.9	3.49	4.00
3.25 YES							
L0003916	0	0.10120E-06	445163.8	3759599.7	198.0	3.49	4.00
3.25 YES							
L0003917	0	0.10120E-06	445155.2	3759599.8	198.1	3.49	4.00

3.25 YES
L0003918 0 0.10120E-06 445146.6 3759599.9 198.2 3.49 4.00
3.25 YES
L0003919 0 0.10120E-06 445138.0 3759599.9 198.3 3.49 4.00
3.25 YES
L0003920 0 0.10120E-06 445129.4 3759599.7 198.4 3.49 4.00
3.25 YES
L0003921 0 0.10120E-06 445120.9 3759598.9 198.5 3.49 4.00
3.25 YES
L0003922 0 0.10120E-06 445112.3 3759598.2 198.6 3.49 4.00
3.25 YES
L0003923 0 0.10120E-06 445103.8 3759597.4 198.5 3.49 4.00
3.25 YES
L0003924 0 0.10120E-06 445095.2 3759596.7 198.3 3.49 4.00
3.25 YES
L0003925 0 0.10120E-06 445086.6 3759595.9 198.2 3.49 4.00
3.25 YES
L0003926 0 0.10120E-06 445078.1 3759595.2 198.1 3.49 4.00
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0003927	0	0.10120E-06	445069.5	3759594.4	198.0	3.49	4.00	3.25	YES	
L0003928	0	0.10120E-06	445061.0	3759593.7	197.9	3.49	4.00	3.25	YES	
L0003929	0	0.10120E-06	445052.4	3759593.0	197.7	3.49	4.00	3.25	YES	
L0003930	0	0.10120E-06	445043.9	3759592.2	197.6	3.49	4.00	3.25	YES	
L0003931	0	0.10120E-06	445035.3	3759591.5	197.5	3.49	4.00			

3.25 YES							
L0003932	0	0.10120E-06	445026.7	3759590.7	197.5	3.49	4.00
3.25 YES							
L0003933	0	0.10120E-06	445018.2	3759590.0	197.5	3.49	4.00
3.25 YES							
L0003934	0	0.10120E-06	445009.6	3759589.2	197.5	3.49	4.00
3.25 YES							
L0003935	0	0.10120E-06	445001.1	3759588.5	197.5	3.49	4.00
3.25 YES							
L0003936	0	0.10120E-06	444992.5	3759587.7	197.5	3.49	4.00
3.25 YES							
L0003937	0	0.10120E-06	444983.9	3759587.0	197.5	3.49	4.00
3.25 YES							
L0003938	0	0.10120E-06	444975.4	3759586.2	197.5	3.49	4.00
3.25 YES							
L0003939	0	0.10120E-06	444966.9	3759585.0	197.4	3.49	4.00
3.25 YES							
L0003940	0	0.10120E-06	444958.6	3759583.0	197.4	3.49	4.00
3.25 YES							
L0003941	0	0.10120E-06	444950.2	3759580.9	197.4	3.49	4.00
3.25 YES							
L0003942	0	0.10120E-06	444941.9	3759578.9	197.4	3.49	4.00
3.25 YES							
L0003943	0	0.10120E-06	444933.5	3759576.8	197.4	3.49	4.00
3.25 YES							
L0003944	0	0.10120E-06	444925.2	3759574.8	197.3	3.49	4.00
3.25 YES							
L0003945	0	0.10120E-06	444916.9	3759572.7	197.3	3.49	4.00
3.25 YES							
L0003946	0	0.10120E-06	444908.5	3759570.7	197.3	3.49	4.00
3.25 YES							
L0003947	0	0.10120E-06	444900.2	3759568.6	197.3	3.49	4.00
3.25 YES							
L0003948	0	0.10120E-06	444891.8	3759566.6	197.2	3.49	4.00
3.25 YES							
L0003949	0	0.10120E-06	444883.5	3759564.5	197.2	3.49	4.00
3.25 YES							
L0003950	0	0.10120E-06	444875.1	3759562.5	197.1	3.49	4.00
3.25 YES							
L0003951	0	0.10120E-06	444866.8	3759560.4	197.0	3.49	4.00
3.25 YES							
L0003952	0	0.10120E-06	444858.5	3759558.4	196.8	3.49	4.00
3.25 YES							
L0003953	0	0.10120E-06	444850.1	3759556.3	196.7	3.49	4.00
3.25 YES							
L0003954	0	0.10120E-06	444841.8	3759554.3	196.6	3.49	4.00
3.25 YES							
L0003955	0	0.10120E-06	444833.4	3759552.2	196.4	3.49	4.00

3.25 YES
L0003956 0 0.20170E-06 445214.8 3759600.3 197.3 3.49 4.00
3.25 YES
L0003957 0 0.20170E-06 445206.2 3759600.0 197.4 3.49 4.00
3.25 YES
L0003958 0 0.20170E-06 445197.6 3759599.7 197.5 3.49 4.00
3.25 YES
L0003959 0 0.20170E-06 445189.0 3759599.4 197.6 3.49 4.00
3.25 YES
L0003960 0 0.20170E-06 445180.4 3759599.6 197.8 3.49 4.00
3.25 YES
L0003961 0 0.20170E-06 445171.8 3759599.7 197.9 3.49 4.00
3.25 YES
L0003962 0 0.20170E-06 445163.2 3759599.9 198.0 3.49 4.00
3.25 YES
L0003963 0 0.20170E-06 445154.6 3759600.0 198.1 3.49 4.00
3.25 YES
L0003964 0 0.20170E-06 445146.1 3759600.2 198.2 3.49 4.00
3.25 YES
L0003965 0 0.20170E-06 445137.5 3759600.3 198.3 3.49 4.00
3.25 YES
L0003966 0 0.20170E-06 445128.9 3759600.2 198.4 3.49 4.00
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0003967	0	0.20170E-06	445120.3	3759599.4	198.5	3.49	4.00	3.25	YES	
L0003968	0	0.20170E-06	445111.8	3759598.6	198.6	3.49	4.00	3.25	YES	
L0003969	0	0.20170E-06	445103.2	3759597.7	198.5	3.49	4.00			

3.25 YES							
L0003970	0	0.20170E-06	445094.7	3759596.9	198.3	3.49	4.00
3.25 YES							
L0003971	0	0.20170E-06	445086.1	3759596.1	198.2	3.49	4.00
3.25 YES							
L0003972	0	0.20170E-06	445077.6	3759595.3	198.1	3.49	4.00
3.25 YES							
L0003973	0	0.20170E-06	445069.0	3759594.4	198.0	3.49	4.00
3.25 YES							
L0003974	0	0.20170E-06	445060.5	3759593.6	197.9	3.49	4.00
3.25 YES							
L0003975	0	0.20170E-06	445051.9	3759592.8	197.7	3.49	4.00
3.25 YES							
L0003976	0	0.20170E-06	445043.4	3759592.2	197.6	3.49	4.00
3.25 YES							
L0003977	0	0.20170E-06	445034.8	3759591.6	197.5	3.49	4.00
3.25 YES							
L0003978	0	0.20170E-06	445026.2	3759591.1	197.5	3.49	4.00
3.25 YES							
L0003979	0	0.20170E-06	445017.7	3759590.5	197.5	3.49	4.00
3.25 YES							
L0003980	0	0.20170E-06	445009.1	3759590.0	197.5	3.49	4.00
3.25 YES							
L0003981	0	0.20170E-06	445000.5	3759589.4	197.5	3.49	4.00
3.25 YES							
L0003982	0	0.20170E-06	444991.9	3759588.9	197.5	3.49	4.00
3.25 YES							
L0003983	0	0.20170E-06	444983.4	3759588.3	197.5	3.49	4.00
3.25 YES							
L0003984	0	0.20170E-06	444974.8	3759587.8	197.5	3.49	4.00
3.25 YES							
L0003985	0	0.20170E-06	444966.3	3759586.7	197.5	3.49	4.00
3.25 YES							
L0003986	0	0.20170E-06	444958.1	3759584.3	197.4	3.49	4.00
3.25 YES							
L0003987	0	0.20170E-06	444949.8	3759581.8	197.4	3.49	4.00
3.25 YES							
L0003988	0	0.20170E-06	444941.6	3759579.4	197.4	3.49	4.00
3.25 YES							
L0003989	0	0.20170E-06	444933.4	3759577.0	197.4	3.49	4.00
3.25 YES							
L0003990	0	0.20170E-06	444925.1	3759574.7	197.3	3.49	4.00
3.25 YES							
L0003991	0	0.20170E-06	444916.8	3759572.6	197.3	3.49	4.00
3.25 YES							
L0003992	0	0.20170E-06	444908.4	3759570.4	197.3	3.49	4.00
3.25 YES							
L0003993	0	0.20170E-06	444900.1	3759568.3	197.3	3.49	4.00

```
3.25     YES
 L0003994         0   0.20170E-06  444891.8 3759566.2   197.2     3.49     4.00
3.25     YES
 L0003995         0   0.20170E-06  444883.4 3759564.1   197.2     3.49     4.00
3.25     YES
 L0003996         0   0.20170E-06  444875.1 3759562.0   197.1     3.49     4.00
3.25     YES
 L0003997         0   0.20170E-06  444866.8 3759559.9   197.0     3.49     4.00
3.25     YES
 L0003998         0   0.20170E-06  444858.5 3759557.8   196.8     3.49     4.00
3.25     YES
 L0003999         0   0.20170E-06  444850.1 3759555.7   196.7     3.49     4.00
3.25     YES
 L0004000         0   0.20170E-06  444841.8 3759553.6   196.6     3.49     4.00
3.25     YES
 L0004001         0   0.20170E-06  444833.5 3759551.5   196.4     3.49     4.00
3.25     YES
 L0004002         0   0.10230E-06  444528.8 3759320.1   192.6     3.49     4.00
3.25     YES
 L0004003         0   0.10230E-06  444535.0 3759326.1   192.6     3.49     4.00
3.25     YES
 L0004004         0   0.10230E-06  444541.2 3759332.0   192.7     3.49     4.00
3.25     YES
 L0004005         0   0.10230E-06  444547.4 3759337.9   192.7     3.49     4.00
3.25     YES
 L0004006         0   0.10230E-06  444553.6 3759343.9   192.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                          ***       10:27:00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0004007         0   0.10230E-06  444559.8 3759349.8   192.9     3.49     4.00
```

3.25 YES							
L0004008	0	0.10230E-06	444566.0	3759355.8	192.9	3.49	4.00
3.25 YES							
L0004009	0	0.10230E-06	444572.2	3759361.7	193.0	3.49	4.00
3.25 YES							
L0004010	0	0.10230E-06	444578.4	3759367.7	193.1	3.49	4.00
3.25 YES							
L0004011	0	0.10230E-06	444584.6	3759373.6	193.3	3.49	4.00
3.25 YES							
L0004012	0	0.10230E-06	444590.8	3759379.5	193.4	3.49	4.00
3.25 YES							
L0004013	0	0.10230E-06	444597.0	3759385.5	193.6	3.49	4.00
3.25 YES							
L0004014	0	0.10230E-06	444603.2	3759391.4	193.7	3.49	4.00
3.25 YES							
L0004015	0	0.10230E-06	444609.4	3759397.4	193.9	3.49	4.00
3.25 YES							
L0004016	0	0.10230E-06	444615.6	3759403.3	194.0	3.49	4.00
3.25 YES							
L0004017	0	0.10230E-06	444621.8	3759409.2	194.1	3.49	4.00
3.25 YES							
L0004018	0	0.10230E-06	444628.0	3759415.2	194.3	3.49	4.00
3.25 YES							
L0004019	0	0.10230E-06	444634.2	3759421.1	194.4	3.49	4.00
3.25 YES							
L0004020	0	0.10230E-06	444640.4	3759427.1	194.6	3.49	4.00
3.25 YES							
L0004021	0	0.10230E-06	444647.5	3759431.9	194.7	3.49	4.00
3.25 YES							
L0004022	0	0.10230E-06	444654.9	3759436.3	194.8	3.49	4.00
3.25 YES							
L0004023	0	0.10230E-06	444662.3	3759440.6	194.9	3.49	4.00
3.25 YES							
L0004024	0	0.10230E-06	444669.7	3759445.0	194.9	3.49	4.00
3.25 YES							
L0004025	0	0.10230E-06	444677.1	3759449.4	195.0	3.49	4.00
3.25 YES							
L0004026	0	0.10230E-06	444684.5	3759453.7	195.0	3.49	4.00
3.25 YES							
L0004027	0	0.10230E-06	444691.8	3759458.1	195.0	3.49	4.00
3.25 YES							
L0004028	0	0.10230E-06	444699.2	3759462.5	195.1	3.49	4.00
3.25 YES							
L0004029	0	0.10230E-06	444706.6	3759466.9	195.1	3.49	4.00
3.25 YES							
L0004030	0	0.10230E-06	444714.0	3759471.2	195.2	3.49	4.00
3.25 YES							
L0004031	0	0.10230E-06	444721.4	3759475.6	195.2	3.49	4.00

3.25 YES
L0004032 0 0.10230E-06 444728.8 3759480.0 195.3 3.49 4.00
3.25 YES
L0004033 0 0.10230E-06 444736.2 3759484.3 195.3 3.49 4.00
3.25 YES
L0004034 0 0.10230E-06 444743.6 3759488.7 195.4 3.49 4.00
3.25 YES
L0004035 0 0.10230E-06 444751.0 3759493.1 195.4 3.49 4.00
3.25 YES
L0004036 0 0.10230E-06 444758.4 3759497.4 195.5 3.49 4.00
3.25 YES
L0004037 0 0.10230E-06 444765.8 3759501.8 195.5 3.49 4.00
3.25 YES
L0004038 0 0.10230E-06 444773.2 3759506.2 195.6 3.49 4.00
3.25 YES
L0004039 0 0.10230E-06 444780.6 3759510.6 195.6 3.49 4.00
3.25 YES
L0004040 0 0.10230E-06 444788.0 3759514.9 195.7 3.49 4.00
3.25 YES
L0004041 0 0.10230E-06 444795.8 3759518.5 195.7 3.49 4.00
3.25 YES
L0004042 0 0.10230E-06 444803.9 3759521.3 195.8 3.49 4.00
3.25 YES
L0004043 0 0.10230E-06 444812.0 3759524.2 195.9 3.49 4.00
3.25 YES
L0004044 0 0.10230E-06 444820.1 3759527.0 196.0 3.49 4.00
3.25 YES
L0004045 0 0.10230E-06 444514.6 3759331.8 192.7 3.49 4.00
3.25 YES
L0004046 0 0.10230E-06 444520.8 3759337.8 192.7 3.49 4.00
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY

L0004047	0	0.10230E-06	444527.0	3759343.7	192.8	3.49	4.00	3.25 YES
L0004048	0	0.10230E-06	444533.2	3759349.7	192.9	3.49	4.00	3.25 YES
L0004049	0	0.10230E-06	444539.4	3759355.6	192.9	3.49	4.00	3.25 YES
L0004050	0	0.10230E-06	444545.6	3759361.5	193.0	3.49	4.00	3.25 YES
L0004051	0	0.10230E-06	444551.8	3759367.5	193.1	3.49	4.00	3.25 YES
L0004052	0	0.10230E-06	444558.0	3759373.4	193.1	3.49	4.00	3.25 YES
L0004053	0	0.10230E-06	444564.2	3759379.4	193.2	3.49	4.00	3.25 YES
L0004054	0	0.10230E-06	444570.4	3759385.3	193.3	3.49	4.00	3.25 YES
L0004055	0	0.10230E-06	444576.6	3759391.3	193.4	3.49	4.00	3.25 YES
L0004056	0	0.10230E-06	444582.8	3759397.2	193.5	3.49	4.00	3.25 YES
L0004057	0	0.10230E-06	444589.0	3759403.1	193.7	3.49	4.00	3.25 YES
L0004058	0	0.10230E-06	444595.2	3759409.1	193.8	3.49	4.00	3.25 YES
L0004059	0	0.10230E-06	444601.4	3759415.0	193.9	3.49	4.00	3.25 YES
L0004060	0	0.10230E-06	444607.6	3759421.0	194.1	3.49	4.00	3.25 YES
L0004061	0	0.10230E-06	444613.8	3759426.9	194.2	3.49	4.00	3.25 YES
L0004062	0	0.10230E-06	444620.0	3759432.8	194.4	3.49	4.00	3.25 YES
L0004063	0	0.10230E-06	444626.2	3759438.8	194.5	3.49	4.00	3.25 YES
L0004064	0	0.10230E-06	444633.3	3759443.6	194.7	3.49	4.00	3.25 YES
L0004065	0	0.10230E-06	444640.7	3759448.0	194.8	3.49	4.00	3.25 YES
L0004066	0	0.10230E-06	444648.1	3759452.4	195.0	3.49	4.00	3.25 YES
L0004067	0	0.10230E-06	444655.5	3759456.7	195.0	3.49	4.00	3.25 YES
L0004068	0	0.10230E-06	444662.9	3759461.1	195.0	3.49	4.00	3.25 YES
L0004069	0	0.10230E-06	444670.3	3759465.5	195.0	3.49	4.00	

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3.25     YES
 L0004070         0   0.10230E-06  444677.7 3759469.8   195.1     3.49     4.00
3.25     YES
 L0004071         0   0.10230E-06  444685.1 3759474.2   195.1     3.49     4.00
3.25     YES
 L0004072         0   0.10230E-06  444692.5 3759478.6   195.2     3.49     4.00
3.25     YES
 L0004073         0   0.10230E-06  444699.8 3759482.9   195.2     3.49     4.00
3.25     YES
 L0004074         0   0.10230E-06  444707.2 3759487.3   195.3     3.49     4.00
3.25     YES
 L0004075         0   0.10230E-06  444714.6 3759491.7   195.3     3.49     4.00
3.25     YES
 L0004076         0   0.10230E-06  444722.0 3759496.1   195.4     3.49     4.00
3.25     YES
 L0004077         0   0.10230E-06  444729.4 3759500.4   195.5     3.49     4.00
3.25     YES
 L0004078         0   0.10230E-06  444736.8 3759504.8   195.6     3.49     4.00
3.25     YES
 L0004079         0   0.10230E-06  444744.2 3759509.2   195.6     3.49     4.00
3.25     YES
 L0004080         0   0.10230E-06  444751.6 3759513.5   195.7     3.49     4.00
3.25     YES
 L0004081         0   0.10230E-06  444759.0 3759517.9   195.7     3.49     4.00
3.25     YES
 L0004082         0   0.10230E-06  444766.4 3759522.3   195.8     3.49     4.00
3.25     YES
 L0004083         0   0.10230E-06  444773.8 3759526.6   195.8     3.49     4.00
3.25     YES
 L0004084         0   0.10230E-06  444781.6 3759530.2   195.8     3.49     4.00
3.25     YES
 L0004085         0   0.10230E-06  444789.7 3759533.0   195.9     3.49     4.00
3.25     YES
 L0004086         0   0.10230E-06  444797.8 3759535.9   195.9     3.49     4.00
3.25     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

	NUMBER EMISSION RATE			BASE	RELEASE	INIT.	INIT.	URBAN	EMISSION RATE

SOURCE ID	PART. SCALAR CATS.	(GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ	SOURCE
L0004087	0	0.10230E-06	444805.9	3759538.7	195.9	3.49	4.00	3.25	YES
L0004088	0	0.38450E-06	444834.9	3759531.4	196.2	3.49	4.00	3.25	YES
L0004089	0	0.38450E-06	444843.0	3759534.2	196.4	3.49	4.00	3.25	YES
L0004090	0	0.38450E-06	444851.1	3759536.9	196.5	3.49	4.00	3.25	YES
L0004091	0	0.38450E-06	444859.3	3759539.6	196.6	3.49	4.00	3.25	YES
L0004092	0	0.38450E-06	444867.4	3759542.4	196.8	3.49	4.00	3.25	YES
L0004093	0	0.38450E-06	444875.6	3759545.1	196.9	3.49	4.00	3.25	YES
L0004094	0	0.38450E-06	444883.7	3759547.8	197.0	3.49	4.00	3.25	YES
L0004095	0	0.38450E-06	444891.9	3759550.6	197.1	3.49	4.00	3.25	YES
L0004096	0	0.38450E-06	444900.1	3759552.9	197.1	3.49	4.00	3.25	YES
L0004097	0	0.38450E-06	444908.5	3759554.6	197.1	3.49	4.00	3.25	YES
L0004098	0	0.38450E-06	444917.0	3759556.2	197.1	3.49	4.00	3.25	YES
L0004099	0	0.38450E-06	444925.4	3759557.8	197.2	3.49	4.00	3.25	YES
L0004100	0	0.38450E-06	444933.8	3759559.4	197.2	3.49	4.00	3.25	YES
L0004101	0	0.38450E-06	444942.3	3759561.1	197.2	3.49	4.00	3.25	YES
L0004102	0	0.38450E-06	444950.7	3759562.7	197.2	3.49	4.00	3.25	YES
L0004103	0	0.38450E-06	444959.1	3759564.3	197.2	3.49	4.00	3.25	YES
L0004104	0	0.38450E-06	444967.6	3759565.9	197.2	3.49	4.00	3.25	YES
L0004105	0	0.38450E-06	444976.0	3759567.5	197.3	3.49	4.00	3.25	YES
L0004106	0	0.38450E-06	444984.5	3759569.2	197.3	3.49	4.00	3.25	YES
L0004107	0	0.38450E-06	444992.9	3759570.8	197.3	3.49	4.00		

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3.25     YES
 L0004108         0   0.38450E-06  445001.3 3759572.4   197.3     3.49     4.00
3.25     YES
 L0004109         0   0.38450E-06  445009.8 3759573.4   197.3     3.49     4.00
3.25     YES
 L0004110         0   0.38450E-06  445018.4 3759573.7   197.3     3.49     4.00
3.25     YES
 L0004111         0   0.38450E-06  445027.0 3759574.0   197.3     3.49     4.00
3.25     YES
 L0004112         0   0.38450E-06  445035.6 3759574.2   197.3     3.49     4.00
3.25     YES
 L0004113         0   0.38450E-06  445044.2 3759574.5   197.4     3.49     4.00
3.25     YES
 L0004114         0   0.38450E-06  445052.8 3759574.8   197.6     3.49     4.00
3.25     YES
 L0004115         0   0.38450E-06  445061.3 3759575.0   197.7     3.49     4.00
3.25     YES
 L0004116         0   0.38450E-06  445069.9 3759575.3   197.8     3.49     4.00
3.25     YES
 L0004117         0   0.38450E-06  445078.5 3759575.6   197.9     3.49     4.00
3.25     YES
 L0004118         0   0.38450E-06  445087.1 3759575.8   198.0     3.49     4.00
3.25     YES
 L0004119         0   0.38450E-06  445095.7 3759576.0   198.1     3.49     4.00
3.25     YES
 L0004120         0   0.38450E-06  445104.3 3759575.9   198.2     3.49     4.00
3.25     YES
 L0004121         0   0.38450E-06  445112.9 3759575.8   198.3     3.49     4.00
3.25     YES
 L0004122         0   0.38450E-06  445121.5 3759575.8   198.2     3.49     4.00
3.25     YES
 L0004123         0   0.38450E-06  445130.0 3759575.7   198.1     3.49     4.00
3.25     YES
 L0004124         0   0.38450E-06  445138.6 3759575.6   198.0     3.49     4.00
3.25     YES
 L0004125         0   0.38450E-06  445147.2 3759575.6   197.9     3.49     4.00
3.25     YES
 L0004126         0   0.38450E-06  445155.8 3759575.5   197.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:27:00

                                  PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0004127	0	0.38450E-06	445164.4	3759575.4	197.7	3.49	4.00	3.25	YES	
L0004128	0	0.38450E-06	445173.0	3759575.4	197.6	3.49	4.00	3.25	YES	
L0004129	0	0.38450E-06	445181.6	3759575.3	197.5	3.49	4.00	3.25	YES	
L0004130	0	0.38450E-06	445190.2	3759575.2	197.4	3.49	4.00	3.25	YES	
L0004131	0	0.38450E-06	445198.8	3759575.2	197.2	3.49	4.00	3.25	YES	
L0004132	0	0.20750E-06	445200.6	3759793.2	199.6	0.00	4.00	3.25	YES	
L0004133	0	0.20750E-06	445202.4	3759784.8	199.5	0.00	4.00	3.25	YES	
L0004134	0	0.20750E-06	445204.2	3759776.4	199.4	0.00	4.00	3.25	YES	
L0004135	0	0.20750E-06	445206.0	3759768.0	199.3	0.00	4.00	3.25	YES	
L0004136	0	0.20750E-06	445207.8	3759759.6	199.1	0.00	4.00	3.25	YES	
L0004137	0	0.20750E-06	445209.6	3759751.2	199.0	0.00	4.00	3.25	YES	
L0004138	0	0.20750E-06	445211.4	3759742.8	198.9	0.00	4.00	3.25	YES	
L0004139	0	0.20750E-06	445212.3	3759734.2	198.8	0.00	4.00	3.25	YES	
L0004140	0	0.20750E-06	445213.2	3759725.7	198.7	0.00	4.00	3.25	YES	
L0004141	0	0.20750E-06	445214.1	3759717.1	198.6	0.00	4.00	3.25	YES	
L0004142	0	0.20750E-06	445215.0	3759708.6	198.5	0.00	4.00	3.25	YES	
L0004143	0	0.20750E-06	445215.8	3759700.0	198.4	0.00	4.00	3.25	YES	
L0004144	0	0.20750E-06	445216.4	3759691.5	198.3	0.00	4.00	3.25	YES	
L0004145	0	0.20750E-06	445216.3	3759682.9	198.2	0.00	4.00			

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3.25     YES
 L0004146         0   0.20750E-06  445216.2 3759674.3   198.1     0.00     4.00
3.25     YES
 L0004147         0   0.20750E-06  445216.1 3759665.7   198.0     0.00     4.00
3.25     YES
 L0004148         0   0.20750E-06  445216.0 3759657.1   197.9     0.00     4.00
3.25     YES
 L0004149         0   0.20750E-06  445215.9 3759648.5   197.8     0.00     4.00
3.25     YES
 L0004150         0   0.20750E-06  445215.8 3759639.9   197.7     0.00     4.00
3.25     YES
 L0004151         0   0.20750E-06  445215.7 3759631.4   197.6     0.00     4.00
3.25     YES
 L0004152         0   0.20750E-06  445215.6 3759622.8   197.6     0.00     4.00
3.25     YES
 L0004153         0   0.20750E-06  445214.8 3759614.2   197.5     0.00     4.00
3.25     YES
 L0004154         0   0.19400E-06  445209.6 3759574.2   197.1     3.49     4.00
3.25     YES
 L0004155         0   0.19400E-06  445218.2 3759574.2   197.0     3.49     4.00
3.25     YES
 L0004156         0   0.19400E-06  445226.8 3759574.2   196.9     3.49     4.00
3.25     YES
 L0004157         0   0.30780E-06  441457.1 3758857.5   183.0     3.49     6.05
3.25     YES
 L0004158         0   0.30780E-06  441470.1 3758857.3   183.0     3.49     6.05
3.25     YES
 L0004159         0   0.30780E-06  441483.1 3758857.1   183.0     3.49     6.05
3.25     YES
 L0004160         0   0.30780E-06  441496.1 3758856.9   183.0     3.49     6.05
3.25     YES
 L0004161         0   0.30780E-06  441509.1 3758856.7   183.1     3.49     6.05
3.25     YES
 L0004162         0   0.30780E-06  441522.1 3758856.5   183.1     3.49     6.05
3.25     YES
 L0004163         0   0.30780E-06  441535.1 3758856.3   183.2     3.49     6.05
3.25     YES
 L0004164         0   0.30780E-06  441548.1 3758856.1   183.2     3.49     6.05
3.25     YES
 L0004165         0   0.30780E-06  441561.1 3758855.9   183.3     3.49     6.05
3.25     YES
 L0004166         0   0.30780E-06  441574.1 3758855.7   183.5     3.49     6.05
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:27:00
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0004167	0	0.30780E-06	441587.1	3758855.5	183.8	3.49	6.05	3.25	YES	
L0004168	0	0.30780E-06	441600.0	3758855.3	184.2	3.49	6.05	3.25	YES	
L0004169	0	0.30780E-06	441613.0	3758855.1	184.5	3.49	6.05	3.25	YES	
L0004170	0	0.30780E-06	441626.0	3758854.9	184.8	3.49	6.05	3.25	YES	
L0004171	0	0.30780E-06	441639.0	3758854.8	185.2	3.49	6.05	3.25	YES	
L0004172	0	0.30780E-06	441652.0	3758854.7	185.3	3.49	6.05	3.25	YES	
L0004173	0	0.30780E-06	441665.0	3758854.6	185.3	3.49	6.05	3.25	YES	
L0004174	0	0.30780E-06	441678.0	3758854.5	185.3	3.49	6.05	3.25	YES	
L0004175	0	0.30780E-06	441691.0	3758854.4	185.3	3.49	6.05	3.25	YES	
L0004176	0	0.30780E-06	441704.0	3758854.3	185.3	3.49	6.05	3.25	YES	
L0004177	0	0.30780E-06	441717.0	3758854.2	185.3	3.49	6.05	3.25	YES	
L0004178	0	0.30780E-06	441730.0	3758854.2	185.3	3.49	6.05	3.25	YES	
L0004179	0	0.30780E-06	441743.0	3758854.1	185.3	3.49	6.05	3.25	YES	
L0004180	0	0.30780E-06	441756.0	3758854.0	185.3	3.49	6.05	3.25	YES	
L0004181	0	0.30780E-06	441769.0	3758853.9	185.3	3.49	6.05	3.25	YES	
L0004182	0	0.30780E-06	441782.0	3758853.8	185.3	3.49	6.05	3.25	YES	
L0004183	0	0.30780E-06	441795.0	3758853.7	185.3	3.49	6.05			

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3.25     YES
 L0004184         0   0.30780E-06  441808.0 3758853.7   185.4     3.49     6.05
3.25     YES
 L0004185         0   0.30780E-06  441821.0 3758853.6   185.5     3.49     6.05
3.25     YES
 L0004186         0   0.30780E-06  441834.0 3758853.5   185.6     3.49     6.05
3.25     YES
 L0004187         0   0.30780E-06  441847.0 3758853.6   185.8     3.49     6.05
3.25     YES
 L0004188         0   0.30780E-06  441860.0 3758853.9   185.9     3.49     6.05
3.25     YES
 L0004189         0   0.30780E-06  441873.0 3758854.2   186.0     3.49     6.05
3.25     YES
 L0004190         0   0.30780E-06  441886.0 3758854.5   186.1     3.49     6.05
3.25     YES
 L0004191         0   0.30780E-06  441899.0 3758854.8   186.3     3.49     6.05
3.25     YES
 L0004192         0   0.30780E-06  441912.0 3758855.1   186.5     3.49     6.05
3.25     YES
 L0004193         0   0.30780E-06  441925.0 3758855.4   186.6     3.49     6.05
3.25     YES
 L0004194         0   0.30780E-06  441938.0 3758855.7   186.8     3.49     6.05
3.25     YES
 L0004195         0   0.30780E-06  441951.0 3758855.9   187.0     3.49     6.05
3.25     YES
 L0004196         0   0.30780E-06  441964.0 3758856.2   187.4     3.49     6.05
3.25     YES
 L0004197         0   0.30780E-06  441977.0 3758856.3   187.9     3.49     6.05
3.25     YES
 L0004198         0   0.30780E-06  441990.0 3758856.4   188.4     3.49     6.05
3.25     YES
 L0004199         0   0.30780E-06  442003.0 3758856.5   189.0     3.49     6.05
3.25     YES
 L0004200         0   0.30780E-06  442016.0 3758856.7   189.5     3.49     6.05
3.25     YES
 L0004201         0   0.30780E-06  442029.0 3758856.8   190.0     3.49     6.05
3.25     YES
 L0004202         0   0.30780E-06  442042.0 3758856.9   190.1     3.49     6.05
3.25     YES
 L0004203         0   0.30780E-06  442055.0 3758857.0   190.1     3.49     6.05
3.25     YES
 L0004204         0   0.30780E-06  442068.0 3758857.1   190.2     3.49     6.05
3.25     YES
 L0004205         0   0.30780E-06  442081.0 3758857.2   190.2     3.49     6.05
3.25     YES
 L0004206         0   0.30780E-06  442094.0 3758857.3   190.3     3.49     6.05
3.25     YES
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY
L0004207	0	0.30780E-06	442107.0	3758857.5	190.4	3.49	6.05	3.25	YES
L0004208	0	0.30780E-06	442120.0	3758857.5	190.6	3.49	6.05	3.25	YES
L0004209	0	0.30780E-06	442133.0	3758857.4	190.7	3.49	6.05	3.25	YES
L0004210	0	0.30780E-06	442146.0	3758857.3	190.9	3.49	6.05	3.25	YES
L0004211	0	0.30780E-06	442159.0	3758857.1	191.1	3.49	6.05	3.25	YES
L0004212	0	0.30780E-06	442172.0	3758857.0	191.2	3.49	6.05	3.25	YES
L0004213	0	0.30780E-06	442185.0	3758856.9	191.4	3.49	6.05	3.25	YES
L0004214	0	0.30780E-06	442198.0	3758856.7	191.5	3.49	6.05	3.25	YES
L0004215	0	0.30780E-06	442211.0	3758856.6	191.6	3.49	6.05	3.25	YES
L0004216	0	0.30780E-06	442224.0	3758856.5	191.7	3.49	6.05	3.25	YES
L0004217	0	0.30780E-06	442237.0	3758856.4	191.8	3.49	6.05	3.25	YES
L0004218	0	0.30780E-06	442250.0	3758856.2	191.9	3.49	6.05	3.25	YES
L0004219	0	0.30780E-06	442263.0	3758856.1	192.0	3.49	6.05	3.25	YES
L0004220	0	0.30780E-06	442276.0	3758856.0	191.7	3.49	6.05	3.25	YES
L0004221	0	0.30780E-06	442289.0	3758855.8	191.4	3.49	6.05		

3.25 YES							
L0004222	0	0.30780E-06	442302.0	3758855.7	191.1	3.49	6.05
3.25 YES							
L0004223	0	0.30780E-06	442315.0	3758855.6	190.9	3.49	6.05
3.25 YES							
L0004224	0	0.30780E-06	442328.0	3758855.4	190.6	3.49	6.05
3.25 YES							
L0004225	0	0.30780E-06	442341.0	3758855.3	190.4	3.49	6.05
3.25 YES							
L0004226	0	0.30780E-06	442354.0	3758855.2	190.4	3.49	6.05
3.25 YES							
L0004227	0	0.30780E-06	442367.0	3758855.1	190.4	3.49	6.05
3.25 YES							
L0004228	0	0.30780E-06	442380.0	3758854.9	190.4	3.49	6.05
3.25 YES							
L0004229	0	0.30780E-06	442393.0	3758854.9	190.4	3.49	6.05
3.25 YES							
L0004230	0	0.30780E-06	442406.0	3758855.2	190.4	3.49	6.05
3.25 YES							
L0004231	0	0.30780E-06	442419.0	3758855.6	190.4	3.49	6.05
3.25 YES							
L0004232	0	0.30780E-06	442432.0	3758855.9	190.4	3.49	6.05
3.25 YES							
L0004233	0	0.30780E-06	442445.0	3758856.2	190.4	3.49	6.05
3.25 YES							
L0004234	0	0.30780E-06	442458.0	3758856.6	190.4	3.49	6.05
3.25 YES							
L0004235	0	0.30780E-06	442471.0	3758856.9	190.4	3.49	6.05
3.25 YES							
L0004236	0	0.30780E-06	442484.0	3758857.3	190.4	3.49	6.05
3.25 YES							
L0004237	0	0.30780E-06	442497.0	3758857.6	190.4	3.49	6.05
3.25 YES							
L0004238	0	0.30780E-06	442510.0	3758857.9	190.4	3.49	6.05
3.25 YES							
L0004239	0	0.30780E-06	442522.9	3758858.3	190.4	3.49	6.05
3.25 YES							
L0004240	0	0.30780E-06	442535.9	3758858.6	190.4	3.49	6.05
3.25 YES							
L0004241	0	0.30780E-06	442548.9	3758858.9	190.4	3.49	6.05
3.25 YES							
L0004242	0	0.30780E-06	442561.9	3758858.9	190.4	3.49	6.05
3.25 YES							
L0004243	0	0.30780E-06	442574.9	3758858.8	190.4	3.49	6.05
3.25 YES							
L0004244	0	0.30780E-06	442587.9	3758858.8	190.4	3.49	6.05
3.25 YES							
L0004245	0	0.30780E-06	442600.9	3758858.7	190.4	3.49	6.05

3.25 YES
L0004246 0 0.30780E-06 442613.9 3758858.7 190.4 3.49 6.05
3.25 YES
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** *** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004247	0	0.30780E-06	442626.9	3758858.6	190.4	3.49	6.05	3.25	YES	
L0004248	0	0.30780E-06	442639.9	3758858.6	190.4	3.49	6.05	3.25	YES	
L0004249	0	0.30780E-06	442652.9	3758858.5	190.4	3.49	6.05	3.25	YES	
L0004250	0	0.30780E-06	442665.9	3758858.5	190.4	3.49	6.05	3.25	YES	
L0004251	0	0.30780E-06	442678.9	3758858.4	190.4	3.49	6.05	3.25	YES	
L0004252	0	0.30780E-06	442691.9	3758858.4	190.4	3.49	6.05	3.25	YES	
L0004253	0	0.30780E-06	442704.9	3758858.3	190.4	3.49	6.05	3.25	YES	
L0004254	0	0.30780E-06	442717.9	3758858.3	190.4	3.49	6.05	3.25	YES	
L0004255	0	0.30780E-06	442730.9	3758858.2	190.4	3.49	6.05	3.25	YES	
L0004256	0	0.30780E-06	442743.9	3758858.2	190.4	3.49	6.05	3.25	YES	
L0004257	0	0.30780E-06	442756.9	3758858.1	190.4	3.49	6.05	3.25	YES	
L0004258	0	0.30780E-06	442769.9	3758858.1	190.4	3.49	6.05	3.25	YES	
L0004259	0	0.30780E-06	442782.9	3758858.0	190.4	3.49	6.05			

3.25 YES							
L0004260	0	0.30780E-06	442795.9	3758858.0	190.4	3.49	6.05
3.25 YES							
L0004261	0	0.30780E-06	442808.9	3758857.9	190.4	3.49	6.05
3.25 YES							
L0004262	0	0.30780E-06	442821.9	3758857.9	190.4	3.49	6.05
3.25 YES							
L0004263	0	0.30780E-06	442834.9	3758857.8	190.4	3.49	6.05
3.25 YES							
L0004264	0	0.30780E-06	442847.9	3758857.8	190.4	3.49	6.05
3.25 YES							
L0004265	0	0.30780E-06	442860.9	3758857.7	190.4	3.49	6.05
3.25 YES							
L0004266	0	0.30780E-06	442873.9	3758857.7	190.4	3.49	6.05
3.25 YES							
L0004267	0	0.30780E-06	442886.9	3758857.6	190.4	3.49	6.05
3.25 YES							
L0004268	0	0.30780E-06	442899.9	3758857.6	190.4	3.49	6.05
3.25 YES							
L0004269	0	0.30780E-06	442912.9	3758857.5	190.4	3.49	6.05
3.25 YES							
L0004270	0	0.30780E-06	442925.9	3758857.5	190.4	3.49	6.05
3.25 YES							
L0004271	0	0.30780E-06	442938.9	3758857.4	190.4	3.49	6.05
3.25 YES							
L0004272	0	0.30780E-06	442951.9	3758857.3	190.4	3.49	6.05
3.25 YES							
L0004273	0	0.30780E-06	442964.9	3758857.3	190.4	3.49	6.05
3.25 YES							
L0004274	0	0.30780E-06	442977.9	3758857.2	190.3	3.49	6.05
3.25 YES							
L0004275	0	0.30780E-06	442990.9	3758857.1	190.2	3.49	6.05
3.25 YES							
L0004276	0	0.30780E-06	443003.9	3758857.0	190.2	3.49	6.05
3.25 YES							
L0004277	0	0.30780E-06	443016.9	3758857.0	190.1	3.49	6.05
3.25 YES							
L0004278	0	0.30780E-06	443029.9	3758856.9	190.0	3.49	6.05
3.25 YES							
L0004279	0	0.30780E-06	443042.9	3758856.8	190.0	3.49	6.05
3.25 YES							
L0004280	0	0.30780E-06	443055.9	3758856.7	190.0	3.49	6.05
3.25 YES							
L0004281	0	0.30780E-06	443068.9	3758856.7	190.0	3.49	6.05
3.25 YES							
L0004282	0	0.30780E-06	443081.9	3758856.6	190.0	3.49	6.05
3.25 YES							
L0004283	0	0.30780E-06	443094.9	3758856.5	190.0	3.49	6.05

3.25 YES
L0004284 0 0.30780E-06 443107.9 3758856.4 190.0 3.49 6.05
3.25 YES
L0004285 0 0.30780E-06 443120.9 3758856.4 189.9 3.49 6.05
3.25 YES
L0004286 0 0.30780E-06 443133.9 3758856.3 189.8 3.49 6.05
3.25 YES
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** *** *** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004287	0	0.30780E-06	443146.9	3758856.2	189.7	3.49	6.05	3.25	YES	
L0004288	0	0.30780E-06	443159.9	3758856.2	189.6	3.49	6.05	3.25	YES	
L0004289	0	0.30780E-06	443172.9	3758856.2	189.5	3.49	6.05	3.25	YES	
L0004290	0	0.30780E-06	443185.9	3758856.2	189.4	3.49	6.05	3.25	YES	
L0004291	0	0.30780E-06	443198.9	3758856.2	189.4	3.49	6.05	3.25	YES	
L0004292	0	0.30780E-06	443211.9	3758856.2	189.3	3.49	6.05	3.25	YES	
L0004293	0	0.30780E-06	443224.9	3758856.2	189.2	3.49	6.05	3.25	YES	
L0004294	0	0.30780E-06	443237.9	3758856.2	189.1	3.49	6.05	3.25	YES	
L0004295	0	0.30780E-06	443250.9	3758856.2	189.1	3.49	6.05	3.25	YES	
L0004296	0	0.30780E-06	443263.9	3758856.2	189.0	3.49	6.05	3.25	YES	
L0004297	0	0.30780E-06	443276.9	3758856.2	188.9	3.49	6.05			

3.25 YES							
L0004298	0	0.30780E-06	443289.9	3758856.2	188.8	3.49	6.05
3.25 YES							
L0004299	0	0.30780E-06	443302.9	3758856.2	188.7	3.49	6.05
3.25 YES							
L0004300	0	0.30780E-06	443315.9	3758856.2	188.6	3.49	6.05
3.25 YES							
L0004301	0	0.30780E-06	443328.9	3758856.2	188.5	3.49	6.05
3.25 YES							
L0004302	0	0.30780E-06	443341.9	3758856.2	188.4	3.49	6.05
3.25 YES							
L0004303	0	0.30780E-06	443354.9	3758856.2	188.4	3.49	6.05
3.25 YES							
L0004304	0	0.30780E-06	443367.9	3758856.2	188.3	3.49	6.05
3.25 YES							
L0004305	0	0.30780E-06	443380.9	3758856.2	188.2	3.49	6.05
3.25 YES							
L0004306	0	0.30780E-06	443393.9	3758856.2	188.1	3.49	6.05
3.25 YES							
L0004307	0	0.30780E-06	443406.9	3758856.2	188.1	3.49	6.05
3.25 YES							
L0004308	0	0.30780E-06	443419.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004309	0	0.30780E-06	443432.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004310	0	0.30780E-06	443445.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004311	0	0.30780E-06	443458.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004312	0	0.30780E-06	443471.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004313	0	0.30780E-06	443484.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004314	0	0.30780E-06	443497.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004315	0	0.30780E-06	443510.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004316	0	0.30780E-06	443523.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004317	0	0.30780E-06	443536.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004318	0	0.30780E-06	443549.9	3758856.2	188.0	3.49	6.05
3.25 YES							
L0004319	0	0.30780E-06	443562.9	3758856.6	188.0	3.49	6.05
3.25 YES							
L0004320	0	0.30780E-06	443575.9	3758857.1	188.0	3.49	6.05
3.25 YES							
L0004321	0	0.30780E-06	443588.9	3758857.6	188.0	3.49	6.05

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3.25     YES
 L0004322         0   0.30780E-06  443601.9 3758858.1   188.0     3.49     6.05
3.25     YES
 L0004323         0   0.30780E-06  443614.9 3758858.6   188.0     3.49     6.05
3.25     YES
 L0004324         0   0.30780E-06  443627.9 3758859.1   188.0     3.49     6.05
3.25     YES
 L0004325         0   0.30780E-06  443640.9 3758859.6   188.0     3.49     6.05
3.25     YES
 L0004326         0   0.30780E-06  443653.9 3758860.1   188.0     3.49     6.05
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                        ***        10:27:00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 L0004327         0   0.30780E-06  443666.8 3758860.6   188.0     3.49     6.05
3.25     YES
 L0004328         0   0.30780E-06  443679.8 3758861.1   188.0     3.49     6.05
3.25     YES
 L0004329         0   0.30780E-06  443692.8 3758861.7   188.0     3.49     6.05
3.25     YES
 L0004330         0   0.30780E-06  443705.8 3758862.2   188.0     3.49     6.05
3.25     YES
 L0004331         0   0.30780E-06  443718.8 3758862.7   188.0     3.49     6.05
3.25     YES
 L0004332         0   0.30780E-06  443731.8 3758863.1   188.0     3.49     6.05
3.25     YES
 L0004333         0   0.30780E-06  443744.8 3758863.5   188.0     3.49     6.05
3.25     YES
 L0004334         0   0.30780E-06  443757.8 3758863.8   188.0     3.49     6.05
3.25     YES
 L0004335         0   0.30780E-06  443770.8 3758864.1   188.0     3.49     6.05
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3.25 YES							
L0004336	0	0.30780E-06	443783.8	3758864.4	188.0	3.49	6.05
3.25 YES							
L0004337	0	0.30780E-06	443796.8	3758864.8	188.0	3.49	6.05
3.25 YES							
L0004338	0	0.30780E-06	443809.8	3758865.1	188.0	3.49	6.05
3.25 YES							
L0004339	0	0.30780E-06	443822.8	3758865.4	188.0	3.49	6.05
3.25 YES							
L0004340	0	0.30780E-06	443835.8	3758865.8	188.0	3.49	6.05
3.25 YES							
L0004341	0	0.30780E-06	443848.7	3758866.9	188.0	3.49	6.05
3.25 YES							
L0004342	0	0.30780E-06	443861.7	3758868.0	188.0	3.49	6.05
3.25 YES							
L0004343	0	0.30780E-06	443874.6	3758869.2	188.0	3.49	6.05
3.25 YES							
L0004344	0	0.30780E-06	443887.6	3758870.3	188.0	3.49	6.05
3.25 YES							
L0004345	0	0.30780E-06	443900.5	3758871.4	188.0	3.49	6.05
3.25 YES							
L0004346	0	0.30780E-06	443913.5	3758872.6	188.0	3.49	6.05
3.25 YES							
L0004347	0	0.30780E-06	443926.4	3758873.7	188.0	3.49	6.05
3.25 YES							
L0004348	0	0.30780E-06	443939.4	3758874.8	188.0	3.49	6.05
3.25 YES							
L0004349	0	0.30780E-06	443952.1	3758877.2	188.0	3.49	6.05
3.25 YES							
L0004350	0	0.30780E-06	443964.7	3758880.6	188.0	3.49	6.05
3.25 YES							
L0004351	0	0.30780E-06	443977.2	3758883.9	188.0	3.49	6.05
3.25 YES							
L0004352	0	0.30780E-06	443989.8	3758887.3	188.0	3.49	6.05
3.25 YES							
L0004353	0	0.30780E-06	444002.3	3758890.6	188.0	3.49	6.05
3.25 YES							
L0004354	0	0.30780E-06	444014.9	3758894.0	188.0	3.49	6.05
3.25 YES							
L0004355	0	0.30780E-06	444027.4	3758897.4	188.0	3.49	6.05
3.25 YES							
L0004356	0	0.30780E-06	444039.5	3758902.3	188.0	3.49	6.05
3.25 YES							
L0004357	0	0.30780E-06	444051.5	3758907.2	188.1	3.49	6.05
3.25 YES							
L0004358	0	0.30780E-06	444063.5	3758912.2	188.1	3.49	6.05
3.25 YES							
L0004359	0	0.30780E-06	444075.6	3758917.1	188.2	3.49	6.05

3.25 YES
L0004360 0 0.30780E-06 444087.6 3758922.0 188.2 3.49 6.05
3.25 YES
L0004361 0 0.30780E-06 444099.6 3758926.9 188.3 3.49 6.05
3.25 YES
L0004362 0 0.30780E-06 444111.6 3758932.0 188.3 3.49 6.05
3.25 YES
L0004363 0 0.30780E-06 444122.7 3758938.7 188.4 3.49 6.05
3.25 YES
L0004364 0 0.30780E-06 444133.9 3758945.3 188.5 3.49 6.05
3.25 YES
L0004365 0 0.30780E-06 444145.1 3758952.0 188.5 3.49 6.05
3.25 YES
L0004366 0 0.30780E-06 444156.3 3758958.6 188.6 3.49 6.05
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0004367	0	0.30780E-06	444167.4	3758965.3	188.7	3.49	6.05	3.25	YES	
L0004368	0	0.30780E-06	444178.6	3758971.9	188.8	3.49	6.05	3.25	YES	
L0004369	0	0.30780E-06	444189.8	3758978.6	188.8	3.49	6.05	3.25	YES	
L0004370	0	0.30780E-06	444200.9	3758985.2	188.9	3.49	6.05	3.25	YES	
L0004371	0	0.30780E-06	444212.1	3758991.9	189.0	3.49	6.05	3.25	YES	
L0004372	0	0.30780E-06	444223.3	3758998.5	189.1	3.49	6.05	3.25	YES	
L0004373	0	0.30780E-06	444234.5	3759005.2	189.1	3.49	6.05			

3.25 YES							
L0004374	0	0.30780E-06	444245.6	3759011.8	189.2	3.49	6.05
3.25 YES							
L0004375	0	0.30780E-06	444256.8	3759018.4	189.3	3.49	6.05
3.25 YES							
L0004376	0	0.30780E-06	444268.0	3759025.1	189.3	3.49	6.05
3.25 YES							
L0004377	0	0.30780E-06	444276.7	3759034.7	189.5	3.49	6.05
3.25 YES							
L0004378	0	0.30780E-06	444285.1	3759044.6	189.6	3.49	6.05
3.25 YES							
L0004379	0	0.30780E-06	444293.6	3759054.5	189.7	3.49	6.05
3.25 YES							
L0004380	0	0.30780E-06	444302.0	3759064.3	189.8	3.49	6.05
3.25 YES							
L0004381	0	0.30780E-06	444310.5	3759074.2	189.9	3.49	6.05
3.25 YES							
L0004382	0	0.30780E-06	444318.9	3759084.1	190.0	3.49	6.05
3.25 YES							
L0004383	0	0.30780E-06	444327.4	3759094.0	190.1	3.49	6.05
3.25 YES							
L0004384	0	0.30780E-06	444335.8	3759103.9	190.2	3.49	6.05
3.25 YES							
L0004385	0	0.30780E-06	444344.3	3759113.7	190.3	3.49	6.05
3.25 YES							
L0004386	0	0.30780E-06	444352.7	3759123.6	190.4	3.49	6.05
3.25 YES							
L0004387	0	0.30780E-06	444361.2	3759133.5	190.5	3.49	6.05
3.25 YES							
L0004388	0	0.30780E-06	444369.6	3759143.4	190.6	3.49	6.05
3.25 YES							
L0004389	0	0.30780E-06	444378.1	3759153.3	190.7	3.49	6.05
3.25 YES							
L0004390	0	0.30780E-06	444386.5	3759163.1	190.8	3.49	6.05
3.25 YES							
L0004391	0	0.30780E-06	444394.9	3759173.0	191.0	3.49	6.05
3.25 YES							
L0004392	0	0.30780E-06	444403.4	3759182.9	191.1	3.49	6.05
3.25 YES							
L0004393	0	0.30780E-06	444411.8	3759192.8	191.2	3.49	6.05
3.25 YES							
L0004394	0	0.30780E-06	444420.3	3759202.7	191.3	3.49	6.05
3.25 YES							
L0004395	0	0.30780E-06	444428.7	3759212.5	191.4	3.49	6.05
3.25 YES							
L0004396	0	0.30780E-06	444437.2	3759222.4	191.5	3.49	6.05
3.25 YES							
L0004397	0	0.30780E-06	444445.6	3759232.3	191.6	3.49	6.05

3.25 YES
L0004398 0 0.30780E-06 444454.1 3759242.2 191.7 3.49 6.05
3.25 YES
L0004399 0 0.30780E-06 444462.5 3759252.1 191.8 3.49 6.05
3.25 YES
L0004400 0 0.30780E-06 444471.0 3759261.9 191.9 3.49 6.05
3.25 YES
L0004401 0 0.30780E-06 444479.4 3759271.8 192.0 3.49 6.05
3.25 YES
L0004402 0 0.30780E-06 444487.9 3759281.7 192.1 3.49 6.05
3.25 YES
L0004403 0 0.30780E-06 444496.3 3759291.6 192.2 3.49 6.05
3.25 YES
L0004404 0 0.30780E-06 444504.8 3759301.5 192.4 3.49 6.05
3.25 YES
L0004405 0 0.30780E-06 444513.2 3759311.3 192.5 3.49 6.05
3.25 YES
L0004406 0 0.94340E-06 445196.6 3759809.4 199.8 3.49 9.30
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0004407	0	0.94340E-06	445193.0	3759829.1	200.1	3.49	9.30	3.25	YES	
L0004408	0	0.94340E-06	445189.5	3759848.8	200.4	3.49	9.30	3.25	YES	
L0004409	0	0.94340E-06	445188.6	3759868.7	200.6	3.49	9.30	3.25	YES	
L0004410	0	0.94340E-06	445188.3	3759888.7	200.8	3.49	9.30	3.25	YES	
L0004411	0	0.94340E-06	445188.7	3759908.7	201.0	3.49	9.30			

3.25 YES							
L0004412	0	0.94340E-06	445189.4	3759928.7	201.2	3.49	9.30
3.25 YES							
L0004413	0	0.94340E-06	445189.2	3759948.7	201.4	3.49	9.30
3.25 YES							
L0004414	0	0.94340E-06	445188.9	3759968.7	201.7	3.49	9.30
3.25 YES							
L0004415	0	0.94340E-06	445188.7	3759988.7	201.9	3.49	9.30
3.25 YES							
L0004416	0	0.94340E-06	445188.4	3760008.7	202.1	3.49	9.30
3.25 YES							
L0004417	0	0.94340E-06	445188.1	3760028.7	202.1	3.49	9.30
3.25 YES							
L0004418	0	0.94340E-06	445187.9	3760048.7	202.1	3.49	9.30
3.25 YES							
L0004419	0	0.94340E-06	445187.6	3760068.7	202.1	3.49	9.30
3.25 YES							
L0004420	0	0.94340E-06	445187.8	3760088.7	202.2	3.49	9.30
3.25 YES							
L0004421	0	0.94340E-06	445188.5	3760108.7	202.3	3.49	9.30
3.25 YES							
L0004422	0	0.94340E-06	445189.2	3760128.7	202.5	3.49	9.30
3.25 YES							
L0004423	0	0.94340E-06	445189.9	3760148.7	202.7	3.49	9.30
3.25 YES							
L0004424	0	0.94340E-06	445190.6	3760168.6	202.9	3.49	9.30
3.25 YES							
L0004425	0	0.94340E-06	445191.3	3760188.6	203.1	3.49	9.30
3.25 YES							
L0004426	0	0.94340E-06	445192.0	3760208.6	203.3	3.49	9.30
3.25 YES							
L0004427	0	0.94340E-06	445192.7	3760228.6	203.5	3.49	9.30
3.25 YES							
L0004428	0	0.94340E-06	445193.4	3760248.6	203.7	3.49	9.30
3.25 YES							
L0004429	0	0.94340E-06	445194.0	3760268.6	203.9	3.49	9.30
3.25 YES							
L0004430	0	0.94340E-06	445194.7	3760288.6	204.1	3.49	9.30
3.25 YES							
L0004431	0	0.94340E-06	445195.1	3760308.6	204.3	3.49	9.30
3.25 YES							
L0004432	0	0.94340E-06	445195.3	3760328.6	204.5	3.49	9.30
3.25 YES							
L0004433	0	0.94340E-06	445195.4	3760348.6	204.7	3.49	9.30
3.25 YES							
L0004434	0	0.94340E-06	445195.6	3760368.6	204.9	3.49	9.30
3.25 YES							
L0004435	0	0.94340E-06	445195.7	3760388.6	205.2	3.49	9.30

3.25 YES
L0004436 0 0.94340E-06 445195.9 3760408.6 205.4 3.49 9.30
3.25 YES
L0004437 0 0.94340E-06 445196.0 3760428.6 205.6 3.49 9.30
3.25 YES
L0004438 0 0.94340E-06 445196.2 3760448.6 205.8 3.49 9.30
3.25 YES
L0004439 0 0.94340E-06 445196.3 3760468.6 206.0 3.49 9.30
3.25 YES
L0004440 0 0.94340E-06 445196.4 3760488.6 206.0 3.49 9.30
3.25 YES
L0004441 0 0.94340E-06 445196.5 3760508.6 206.0 3.49 9.30
3.25 YES
L0004442 0 0.94340E-06 445196.6 3760528.6 206.0 3.49 9.30
3.25 YES
L0004443 0 0.94340E-06 445196.7 3760548.6 206.0 3.49 9.30
3.25 YES
L0004444 0 0.94340E-06 445196.8 3760568.6 206.0 3.49 9.30
3.25 YES
L0004445 0 0.94340E-06 445196.9 3760588.6 206.0 3.49 9.30
3.25 YES
L0004446 0 0.94340E-06 445197.0 3760608.6 206.0 3.49 9.30
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004447	0	0.94340E-06	445197.1	3760628.6	206.0	3.49	9.30	3.25	YES	
L0004448	0	0.94340E-06	445197.1	3760648.6	206.0	3.49	9.30	3.25	YES	
L0004449	0	0.94340E-06	445197.2	3760668.6	206.2	3.49	9.30			

3.25 YES							
L0004450	0	0.94340E-06	445197.3	3760688.6	206.4	3.49	9.30
3.25 YES							
L0004451	0	0.94340E-06	445197.5	3760708.6	206.6	3.49	9.30
3.25 YES							
L0004452	0	0.94340E-06	445197.6	3760728.6	206.8	3.49	9.30
3.25 YES							
L0004453	0	0.94340E-06	445197.7	3760748.6	207.0	3.49	9.30
3.25 YES							
L0004454	0	0.94340E-06	445197.9	3760768.6	207.0	3.49	9.30
3.25 YES							
L0004455	0	0.94340E-06	445198.0	3760788.6	207.0	3.49	9.30
3.25 YES							
L0004456	0	0.94340E-06	445198.2	3760808.6	207.0	3.49	9.30
3.25 YES							
L0004457	0	0.94340E-06	445198.3	3760828.6	207.0	3.49	9.30
3.25 YES							
L0004458	0	0.94340E-06	445198.5	3760848.6	207.0	3.49	9.30
3.25 YES							
L0004459	0	0.94340E-06	445198.6	3760868.6	207.0	3.49	9.30
3.25 YES							
L0004460	0	0.94340E-06	445198.8	3760888.6	207.0	3.49	9.30
3.25 YES							
L0004461	0	0.94340E-06	445198.9	3760908.5	207.0	3.49	9.30
3.25 YES							
L0004462	0	0.94340E-06	445199.1	3760928.5	207.0	3.49	9.30
3.25 YES							
L0004463	0	0.94340E-06	445199.2	3760948.5	207.0	3.49	9.30
3.25 YES							
L0004464	0	0.94340E-06	445199.3	3760968.5	207.0	3.49	9.30
3.25 YES							
L0004465	0	0.94340E-06	445199.5	3760988.5	207.0	3.49	9.30
3.25 YES							
L0004466	0	0.94340E-06	445199.6	3761008.5	207.0	3.49	9.30
3.25 YES							
L0004467	0	0.94340E-06	445199.8	3761028.5	207.1	3.49	9.30
3.25 YES							
L0004468	0	0.94340E-06	445199.9	3761048.5	207.3	3.49	9.30
3.25 YES							
L0004469	0	0.94340E-06	445200.1	3761068.5	207.5	3.49	9.30
3.25 YES							
L0004470	0	0.94340E-06	445200.2	3761088.5	207.7	3.49	9.30
3.25 YES							
L0004471	0	0.94340E-06	445200.4	3761108.5	208.0	3.49	9.30
3.25 YES							
L0004472	0	0.94340E-06	445200.5	3761128.5	208.0	3.49	9.30
3.25 YES							
L0004473	0	0.94340E-06	445200.7	3761148.5	208.0	3.49	9.30

3.25 YES
L0004474 0 0.94340E-06 445200.8 3761168.5 208.0 3.49 9.30
3.25 YES
L0004475 0 0.94340E-06 445200.9 3761188.5 208.0 3.49 9.30
3.25 YES
L0004476 0 0.94340E-06 445201.1 3761208.5 208.0 3.49 9.30
3.25 YES
L0004477 0 0.94340E-06 445201.2 3761228.5 208.3 3.49 9.30
3.25 YES
L0004478 0 0.94340E-06 445201.4 3761248.5 208.5 3.49 9.30
3.25 YES
L0004479 0 0.94340E-06 445201.5 3761268.5 208.7 3.49 9.30
3.25 YES
L0004480 0 0.94340E-06 445201.7 3761288.5 208.9 3.49 9.30
3.25 YES
L0004481 0 0.94340E-06 445201.8 3761308.5 209.1 3.49 9.30
3.25 YES
L0004482 0 0.94340E-06 445202.0 3761328.5 209.3 3.49 9.30
3.25 YES
L0004483 0 0.94340E-06 445202.1 3761348.5 209.6 3.49 9.30
3.25 YES
L0004484 0 0.94340E-06 445202.3 3761368.5 209.8 3.49 9.30
3.25 YES
L0004485 0 0.94340E-06 445202.4 3761388.5 210.0 3.49 9.30
3.25 YES
L0004486 0 0.94340E-06 445202.6 3761408.5 210.0 3.49 9.30
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0004487	0	0.94340E-06	445202.7	3761428.5	210.0	3.49	9.30			

3.25 YES							
L0004488	0	0.94340E-06	445202.8	3761448.5	210.0	3.49	9.30
3.25 YES							
L0004489	0	0.94340E-06	445203.0	3761468.5	210.0	3.49	9.30
3.25 YES							
L0004490	0	0.94340E-06	445203.2	3761488.5	210.0	3.49	9.30
3.25 YES							
L0004491	0	0.94340E-06	445203.5	3761508.5	210.0	3.49	9.30
3.25 YES							
L0004492	0	0.94340E-06	445203.7	3761528.5	210.0	3.49	9.30
3.25 YES							
L0004493	0	0.94340E-06	445203.9	3761548.5	210.1	3.49	9.30
3.25 YES							
L0004494	0	0.94340E-06	445204.2	3761568.5	210.1	3.49	9.30
3.25 YES							
L0004495	0	0.94340E-06	445204.4	3761588.5	210.2	3.49	9.30
3.25 YES							
L0004496	0	0.94340E-06	445204.7	3761608.5	210.4	3.49	9.30
3.25 YES							
L0004497	0	0.94340E-06	445204.9	3761628.5	210.6	3.49	9.30
3.25 YES							
L0004498	0	0.94340E-06	445205.2	3761648.5	210.9	3.49	9.30
3.25 YES							
L0004499	0	0.94340E-06	445205.4	3761668.5	211.1	3.49	9.30
3.25 YES							
L0004500	0	0.94340E-06	445205.7	3761688.5	210.9	3.49	9.30
3.25 YES							
L0004501	0	0.94340E-06	445206.0	3761708.5	210.7	3.49	9.30
3.25 YES							
L0004502	0	0.94340E-06	445206.2	3761728.5	210.5	3.49	9.30
3.25 YES							
L0004503	0	0.94340E-06	445206.5	3761748.5	210.2	3.49	9.30
3.25 YES							
L0004504	0	0.94340E-06	445206.8	3761768.5	210.2	3.49	9.30
3.25 YES							
L0004505	0	0.94340E-06	445207.0	3761788.5	210.4	3.49	9.30
3.25 YES							
L0004506	0	0.94340E-06	445207.3	3761808.5	210.7	3.49	9.30
3.25 YES							
L0004507	0	0.94340E-06	445207.5	3761828.5	210.9	3.49	9.30
3.25 YES							
L0004508	0	0.94340E-06	445207.8	3761848.5	211.1	3.49	9.30
3.25 YES							
L0004509	0	0.94340E-06	445208.1	3761868.5	211.2	3.49	9.30
3.25 YES							
L0004510	0	0.94340E-06	445208.3	3761888.5	211.2	3.49	9.30
3.25 YES							
L0004511	0	0.94340E-06	445208.6	3761908.5	211.2	3.49	9.30

3.25 YES
L0004512 0 0.94340E-06 445208.9 3761928.5 211.2 3.49 9.30
3.25 YES
L0004513 0 0.94340E-06 445209.1 3761948.5 211.2 3.49 9.30
3.25 YES
L0004514 0 0.94340E-06 445209.4 3761968.5 211.4 3.49 9.30
3.25 YES
L0004515 0 0.94340E-06 445209.7 3761988.5 211.7 3.49 9.30
3.25 YES
L0004516 0 0.94340E-06 445209.9 3762008.5 211.9 3.49 9.30
3.25 YES
L0004517 0 0.94340E-06 445210.2 3762028.5 212.1 3.49 9.30
3.25 YES
L0004518 0 0.94340E-06 445210.5 3762048.5 212.3 3.49 9.30
3.25 YES
L0004519 0 0.94340E-06 445210.7 3762068.5 212.6 3.49 9.30
3.25 YES
L0004520 0 0.94340E-06 445211.0 3762088.5 212.8 3.49 9.30
3.25 YES
L0004521 0 0.94340E-06 445211.3 3762108.5 213.0 3.49 9.30
3.25 YES
L0004522 0 0.94340E-06 445211.5 3762128.5 213.2 3.49 9.30
3.25 YES
L0004523 0 0.94340E-06 445211.8 3762148.5 213.6 3.49 9.30
3.25 YES
L0004524 0 0.94340E-06 445212.1 3762168.5 214.1 3.49 9.30
3.25 YES
L0004525 0 0.94340E-06 445212.3 3762188.5 214.5 3.49 9.30
3.25 YES
L0004526 0 0.94340E-06 445212.6 3762208.5 214.9 3.49 9.30
3.25 YES

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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY

L0004527	0	0.94340E-06	445212.9	3762228.5	215.2	3.49	9.30	3.25 YES
L0004528	0	0.94340E-06	445213.1	3762248.5	215.2	3.49	9.30	3.25 YES
L0004529	0	0.94340E-06	445213.4	3762268.5	215.2	3.49	9.30	3.25 YES
L0004530	0	0.94340E-06	445213.7	3762288.5	215.2	3.49	9.30	3.25 YES
L0004531	0	0.94340E-06	445213.9	3762308.5	215.2	3.49	9.30	3.25 YES
L0004532	0	0.94340E-06	445214.2	3762328.5	216.0	3.49	9.30	3.25 YES
L0004533	0	0.94340E-06	445214.5	3762348.5	217.0	3.49	9.30	3.25 YES
L0004534	0	0.94340E-06	445214.7	3762368.5	218.1	3.49	9.30	3.25 YES
L0004535	0	0.94960E-06	445248.0	3759576.0	196.6	3.49	9.30	3.25 YES
L0004536	0	0.94960E-06	445268.0	3759575.9	196.4	3.49	9.30	3.25 YES
L0004537	0	0.94960E-06	445288.0	3759575.8	196.5	3.49	9.30	3.25 YES
L0004538	0	0.94960E-06	445308.0	3759575.7	196.7	3.49	9.30	3.25 YES
L0004539	0	0.94960E-06	445328.0	3759575.6	196.9	3.49	9.30	3.25 YES
L0004540	0	0.94960E-06	445348.0	3759575.5	197.1	3.49	9.30	3.25 YES
L0004541	0	0.94960E-06	445368.0	3759575.4	197.7	3.49	9.30	3.25 YES
L0004542	0	0.94960E-06	445388.0	3759575.3	198.3	3.49	9.30	3.25 YES
L0004543	0	0.94960E-06	445408.0	3759575.3	199.0	3.49	9.30	3.25 YES
L0004544	0	0.94960E-06	445428.0	3759575.3	199.5	3.49	9.30	3.25 YES
L0004545	0	0.94960E-06	445448.0	3759575.3	199.7	3.49	9.30	3.25 YES
L0004546	0	0.94960E-06	445468.0	3759575.3	200.0	3.49	9.30	3.25 YES
L0004547	0	0.94960E-06	445488.0	3759575.3	200.2	3.49	9.30	3.25 YES
L0004548	0	0.94960E-06	445508.0	3759575.3	200.6	3.49	9.30	3.25 YES
L0004549	0	0.94960E-06	445528.0	3759575.3	201.1	3.49	9.30	

3.25 YES
L0004550 0 0.94960E-06 445548.0 3759575.3 201.7 3.49 9.30
3.25 YES
L0004551 0 0.94960E-06 445568.0 3759575.3 202.2 3.49 9.30
3.25 YES
L0004552 0 0.94960E-06 445588.0 3759575.3 202.3 3.49 9.30
3.25 YES
L0004553 0 0.94960E-06 445608.0 3759575.3 202.2 3.49 9.30
3.25 YES
L0004554 0 0.94960E-06 445628.0 3759575.3 202.1 3.49 9.30
3.25 YES
L0004555 0 0.94960E-06 445648.0 3759575.4 202.0 3.49 9.30
3.25 YES
L0004556 0 0.94960E-06 445668.0 3759575.4 201.9 3.49 9.30
3.25 YES
L0004557 0 0.94960E-06 445688.0 3759575.5 201.7 3.49 9.30
3.25 YES
L0004558 0 0.94960E-06 445708.0 3759575.5 201.6 3.49 9.30
3.25 YES
L0004559 0 0.94960E-06 445728.0 3759575.6 201.4 3.49 9.30
3.25 YES
L0004560 0 0.94960E-06 445748.0 3759575.6 201.4 3.49 9.30
3.25 YES
L0004561 0 0.94960E-06 445768.0 3759575.7 201.4 3.49 9.30
3.25 YES
L0004562 0 0.94960E-06 445788.0 3759575.7 201.4 3.49 9.30
3.25 YES
L0004563 0 0.94960E-06 445808.0 3759575.8 201.4 3.49 9.30
3.25 YES
L0004564 0 0.94960E-06 445828.0 3759575.8 201.4 3.49 9.30
3.25 YES
L0004565 0 0.94960E-06 445848.0 3759575.9 201.4 3.49 9.30
3.25 YES
L0004566 0 0.94960E-06 445868.0 3759575.9 201.4 3.49 9.30
3.25 YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

NUMBER EMISSION RATE BASE RELEASE INIT. INIT. URBAN EMISSION RATE

SOURCE ID	PART. SCALAR CATS.	(GRAMS/SEC)	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ SOURCE VARY BY
L0004567	0	0.94960E-06	445888.0	3759576.0	201.4	3.49	9.30	3.25 YES
L0004568	0	0.94960E-06	445908.0	3759576.0	201.4	3.49	9.30	3.25 YES
L0004569	0	0.94960E-06	445928.0	3759576.1	201.4	3.49	9.30	3.25 YES
L0004570	0	0.94960E-06	445948.0	3759575.9	201.4	3.49	9.30	3.25 YES
L0004571	0	0.94960E-06	445968.0	3759575.7	201.3	3.49	9.30	3.25 YES
L0004572	0	0.94960E-06	445988.0	3759575.5	201.1	3.49	9.30	3.25 YES
L0004573	0	0.94960E-06	446008.0	3759575.4	200.8	3.49	9.30	3.25 YES
L0004574	0	0.94960E-06	446028.0	3759575.2	200.5	3.49	9.30	3.25 YES
L0004575	0	0.94960E-06	446048.0	3759575.1	200.4	3.49	9.30	3.25 YES
L0004576	0	0.94960E-06	446068.0	3759575.1	200.4	3.49	9.30	3.25 YES
L0004577	0	0.94960E-06	446088.0	3759575.0	200.4	3.49	9.30	3.25 YES
L0004578	0	0.94960E-06	446108.0	3759574.9	200.4	3.49	9.30	3.25 YES
L0004579	0	0.94960E-06	446128.0	3759574.8	200.4	3.49	9.30	3.25 YES
L0004580	0	0.94960E-06	446148.0	3759574.7	200.4	3.49	9.30	3.25 YES
L0004581	0	0.94960E-06	446168.0	3759574.7	200.4	3.49	9.30	3.25 YES
L0004582	0	0.94960E-06	446188.0	3759574.6	200.4	3.49	9.30	3.25 YES
L0004583	0	0.94960E-06	446208.0	3759574.5	200.2	3.49	9.30	3.25 YES
L0004584	0	0.94960E-06	446228.0	3759574.4	199.9	3.49	9.30	3.25 YES
L0004585	0	0.94960E-06	446248.0	3759574.3	199.7	3.49	9.30	3.25 YES
L0004586	0	0.94960E-06	446268.0	3759574.3	199.4	3.49	9.30	3.25 YES
L0004587	0	0.94960E-06	446288.0	3759574.2	199.4	3.49	9.30	

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3.25     YES
 L0004588         0   0.94960E-06  446308.0 3759574.1   199.4     3.49     9.30
3.25     YES
 L0004589         0   0.94960E-06  446328.0 3759574.0   199.4     3.49     9.30
3.25     YES
 L0004590         0   0.94960E-06  446348.0 3759573.9   199.4     3.49     9.30
3.25     YES
 L0004591         0   0.94960E-06  446368.0 3759573.9   199.4     3.49     9.30
3.25     YES
 L0004592         0   0.94960E-06  446388.0 3759573.8   199.4     3.49     9.30
3.25     YES
 L0004593         0   0.94960E-06  446408.0 3759573.7   199.4     3.49     9.30
3.25     YES
 L0004594         0   0.94960E-06  446428.0 3759573.6   199.4     3.49     9.30
3.25     YES
 L0004595         0   0.94960E-06  446448.0 3759573.6   199.4     3.49     9.30
3.25     YES
 L0004596         0   0.94960E-06  446468.0 3759573.6   199.4     3.49     9.30
3.25     YES
 L0004597         0   0.94960E-06  446488.0 3759573.5   199.4     3.49     9.30
3.25     YES
 L0004598         0   0.94960E-06  446508.0 3759573.5   199.4     3.49     9.30
3.25     YES
 L0004599         0   0.94960E-06  446528.0 3759573.4   199.3     3.49     9.30
3.25     YES
 L0004600         0   0.94960E-06  446548.0 3759573.4   199.2     3.49     9.30
3.25     YES
 L0004601         0   0.94960E-06  446568.0 3759573.4   199.1     3.49     9.30
3.25     YES
 L0004602         0   0.94960E-06  446588.0 3759573.3   198.9     3.49     9.30
3.25     YES
 L0004603         0   0.94960E-06  446608.0 3759573.3   198.8     3.49     9.30
3.25     YES
 L0004604         0   0.94960E-06  446628.0 3759573.3   198.6     3.49     9.30
3.25     YES
 L0004605         0   0.94960E-06  446648.0 3759573.2   198.5     3.49     9.30
3.25     YES
 L0004606         0   0.94960E-06  446668.0 3759573.2   198.4     3.49     9.30
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:27:00

                                  PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0004607	0	0.94960E-06	446688.0	3759573.1	198.4	3.49	9.30	3.25	YES	
L0004608	0	0.94960E-06	446708.0	3759573.1	198.4	3.49	9.30	3.25	YES	
L0004609	0	0.94960E-06	446728.0	3759573.1	198.4	3.49	9.30	3.25	YES	
L0004610	0	0.94960E-06	446748.0	3759573.0	198.4	3.49	9.30	3.25	YES	
L0004611	0	0.94960E-06	446768.0	3759573.0	198.4	3.49	9.30	3.25	YES	
L0004612	0	0.94960E-06	446788.0	3759572.9	198.4	3.49	9.30	3.25	YES	
L0004613	0	0.94960E-06	446808.0	3759572.9	198.4	3.49	9.30	3.25	YES	
L0004614	0	0.94960E-06	446828.0	3759572.9	198.4	3.49	9.30	3.25	YES	
L0004615	0	0.94960E-06	446848.0	3759572.7	198.4	3.49	9.30	3.25	YES	
L0004616	0	0.94960E-06	446868.0	3759572.5	198.4	3.49	9.30	3.25	YES	
L0004617	0	0.94960E-06	446888.0	3759572.3	198.4	3.49	9.30	3.25	YES	
L0004618	0	0.94960E-06	446908.0	3759572.1	198.1	3.49	9.30	3.25	YES	
L0004619	0	0.94960E-06	446928.0	3759572.0	197.9	3.49	9.30	3.25	YES	
L0004620	0	0.94960E-06	446948.0	3759571.8	197.6	3.49	9.30	3.25	YES	
L0004621	0	0.94960E-06	446968.0	3759571.6	197.4	3.49	9.30	3.25	YES	
L0004622	0	0.94960E-06	446988.0	3759571.4	197.4	3.49	9.30	3.25	YES	
L0004623	0	0.94960E-06	447008.0	3759571.2	197.4	3.49	9.30	3.25	YES	
L0004624	0	0.94960E-06	447028.0	3759570.6	197.4	3.49	9.30	3.25	YES	
L0004625	0	0.94960E-06	447048.0	3759570.0	197.4	3.49	9.30			

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3.25     YES
 L0004626         0   0.94960E-06  447067.9 3759569.3   197.4     3.49     9.30
3.25     YES
 L0004627         0   0.94960E-06  447087.9 3759568.7   197.4     3.49     9.30
3.25     YES
 L0004628         0   0.94960E-06  447107.9 3759568.1   197.4     3.49     9.30
3.25     YES
 L0004629         0   0.94960E-06  447127.9 3759567.4   197.2     3.49     9.30
3.25     YES
 L0004630         0   0.94960E-06  447147.9 3759567.3   197.0     3.49     9.30
3.25     YES
 L0004631         0   0.94960E-06  447167.9 3759567.5   196.7     3.49     9.30
3.25     YES
 L0004632         0   0.94960E-06  447187.9 3759567.6   196.5     3.49     9.30
3.25     YES
 L0004633         0   0.94960E-06  447207.9 3759567.7   196.6     3.49     9.30
3.25     YES
 L0004634         0   0.94960E-06  447227.9 3759567.9   196.9     3.49     9.30
3.25     YES
 L0004635         0   0.94960E-06  447247.9 3759568.0   197.1     3.49     9.30
3.25     YES
 L0004636         0   0.94960E-06  447267.9 3759568.0   197.4     3.49     9.30
3.25     YES
 L0004637         0   0.94960E-06  447287.9 3759567.7   198.0     3.49     9.30
3.25     YES
 L0004638         0   0.94960E-06  447307.9 3759567.5   198.6     3.49     9.30
3.25     YES
 L0004639         0   0.94960E-06  447327.9 3759567.2   199.2     3.49     9.30
3.25     YES
 L0004640         0   0.94960E-06  447347.9 3759567.0   199.8     3.49     9.30
3.25     YES
 L0004641         0   0.94960E-06  447367.9 3759566.7   199.8     3.49     9.30
3.25     YES
 L0004642         0   0.94960E-06  447387.9 3759566.5   199.8     3.49     9.30
3.25     YES
 L0004643         0   0.94960E-06  447407.9 3759566.2   199.8     3.49     9.30
3.25     YES
 L0004644         0   0.94960E-06  447427.9 3759566.0   199.7     3.49     9.30
3.25     YES
 L0004645         0   0.94960E-06  447447.9 3759565.7   199.1     3.49     9.30
3.25     YES
 L0004646         0   0.94960E-06  447467.9 3759565.8   198.6     3.49     9.30
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                       ***        10:27:00
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0004647	0	0.94960E-06	447487.9	3759565.9	198.1	3.49	9.30	3.25	YES	
L0004648	0	0.94960E-06	447507.9	3759566.1	197.7	3.49	9.30	3.25	YES	
L0004649	0	0.94960E-06	447527.9	3759566.3	197.3	3.49	9.30	3.25	YES	
L0004650	0	0.94960E-06	447547.9	3759566.4	196.9	3.49	9.30	3.25	YES	
L0004651	0	0.94960E-06	447567.9	3759566.4	196.6	3.49	9.30	3.25	YES	
L0004652	0	0.94960E-06	447587.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004653	0	0.94960E-06	447607.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004654	0	0.94960E-06	447627.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004655	0	0.94960E-06	447647.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004656	0	0.94960E-06	447667.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004657	0	0.94960E-06	447687.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004658	0	0.94960E-06	447707.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004659	0	0.94960E-06	447727.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004660	0	0.94960E-06	447747.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004661	0	0.94960E-06	447767.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004662	0	0.94960E-06	447787.9	3759566.4	196.4	3.49	9.30	3.25	YES	
L0004663	0	0.94960E-06	447807.9	3759566.4	196.4	3.49	9.30			

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3.25     YES
 L0004664         0   0.94960E-06  447827.9 3759566.4   196.4     3.49     9.30
3.25     YES
 L0004665         0   0.94960E-06  447847.9 3759566.4   196.4     3.49     9.30
3.25     YES
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                          ***       10:27:00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                SOURCE IDs
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  ALL        L0003527    , L0003528    , L0003529    , L0003530    , L0003531    ,
L0003532    , L0003533    , L0003534    ,

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L0003540    , L0003541    , L0003542    ,

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L0003548    , L0003549    , L0003550    ,

             L0003551    , L0003552    , L0003553    , L0003554    , L0003555    ,
L0003556    , L0003557    , L0003558    ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0003687 , L0003688 , L0003689 , L0003690 , L0003691 , L0003692 , L0003693 , L0003694 ,

L0003695 , L0003696 , L0003697 , L0003698 , L0003699 , L0003700 , L0003701 , L0003702 ,

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** AERMET - VERSION 16216 *** ***
*** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0004151 , L0004152 , L0004153 , L0004154 , L0004155 ,
L0004156 , L0004157 , L0004158 ,

L0004159 , L0004160 , L0004161 , L0004162 , L0004163 ,
L0004164 , L0004165 , L0004166 ,
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** ***
*** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

***

URBAN ID	URBAN POP	SOURCE IDs

L0004167 , L0004168 , L0004169 , L0004170 , L0004171 , L0004172 , L0004173 , L0004174 ,

L0004175 , L0004176 , L0004177 , L0004178 , L0004179 , L0004180 , L0004181 , L0004182 ,

L0004183 , L0004184 , L0004185 , L0004186 , L0004187 , L0004188 , L0004189 , L0004190 ,

L0004191 , L0004192 , L0004193 , L0004194 , L0004195 , L0004196 , L0004197 , L0004198 ,

L0004199 , L0004200 , L0004201 , L0004202 , L0004203 , L0004204 , L0004205 , L0004206 ,

L0004207 , L0004208 , L0004209 , L0004210 , L0004211 , L0004212 , L0004213 , L0004214 ,

L0004215 , L0004216 , L0004217 , L0004218 , L0004219 , L0004220 , L0004221 , L0004222 ,

L0004223 , L0004224 , L0004225 , L0004226 , L0004227 , L0004228 , L0004229 , L0004230 ,

L0004231 , L0004232 , L0004233 , L0004234 , L0004235 , L0004236 , L0004237 , L0004238 ,

L0004239 , L0004240 , L0004241 , L0004242 , L0004243 , L0004244 , L0004245 , L0004246 ,

L0004247 , L0004248 , L0004249 , L0004250 , L0004251 , L0004252 , L0004253 , L0004254 ,

L0004255 , L0004256 , L0004257 , L0004258 , L0004259 , L0004260 , L0004261 , L0004262 ,

L0004263 , L0004264 , L0004265 , L0004266 , L0004267 , L0004268 , L0004269 , L0004270 ,

L0004271 , L0004272 , L0004273 , L0004274 , L0004275 , L0004276 , L0004277 , L0004278 ,

L0004279 , L0004280 , L0004281 , L0004282 , L0004283 , L0004284 , L0004285 , L0004286 ,

L0004287 , L0004288 , L0004289 , L0004290 , L0004291 , L0004292 , L0004293 , L0004294 ,

L0004295 , L0004296 , L0004297 , L0004298 , L0004299 , L0004300 , L0004301 , L0004302 ,

L0004303 , L0004304 , L0004305 , L0004306 , L0004307 , L0004308 , L0004309 , L0004310 ,

L0004311 , L0004312 , L0004313 , L0004314 , L0004315 , L0004316 , L0004317 , L0004318 ,

L0004319 , L0004320 , L0004321 , L0004322 , L0004323 , L0004324 , L0004325 , L0004326 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0004327 , L0004328 , L0004329 , L0004330 , L0004331 , L0004332 , L0004333 , L0004334 ,

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L0004343 , L0004344 , L0004345 , L0004346 , L0004347 , L0004348 , L0004349 , L0004350 ,

L0004351 , L0004352 , L0004353 , L0004354 , L0004355 , L0004356 , L0004357 , L0004358 ,

L0004359 , L0004360 , L0004361 , L0004362 , L0004363 , L0004364 , L0004365 , L0004366 ,

L0004367 , L0004368 , L0004369 , L0004370 , L0004371 ,
L0004372 , L0004373 , L0004374 ,

L0004375 , L0004376 , L0004377 , L0004378 , L0004379 ,
L0004380 , L0004381 , L0004382 ,

L0004383 , L0004384 , L0004385 , L0004386 , L0004387 ,
L0004388 , L0004389 , L0004390 ,

L0004391 , L0004392 , L0004393 , L0004394 , L0004395 ,
L0004396 , L0004397 , L0004398 ,

L0004399 , L0004400 , L0004401 , L0004402 , L0004403 ,
L0004404 , L0004405 , L0004406 ,

L0004407 , L0004408 , L0004409 , L0004410 , L0004411 ,
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L0004428 , L0004429 , L0004430 ,

L0004431 , L0004432 , L0004433 , L0004434 , L0004435 ,
L0004436 , L0004437 , L0004438 ,

L0004439 , L0004440 , L0004441 , L0004442 , L0004443 ,
L0004444 , L0004445 , L0004446 ,

L0004447 , L0004448 , L0004449 , L0004450 , L0004451 ,
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L0004455 , L0004456 , L0004457 , L0004458 , L0004459 ,
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L0004468 , L0004469 , L0004470 ,

L0004471 , L0004472 , L0004473 , L0004474 , L0004475 ,
L0004476 , L0004477 , L0004478 ,

L0004479 , L0004480 , L0004481 , L0004482 , L0004483 ,
L0004484 , L0004485 , L0004486 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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		L0004495 , L0004496 , L0004497 , L0004498 , L0004499 , L0004500 , L0004501 , L0004502 ,
		L0004503 , L0004504 , L0004505 , L0004506 , L0004507 , L0004508 , L0004509 , L0004510 ,
		L0004511 , L0004512 , L0004513 , L0004514 , L0004515 , L0004516 , L0004517 , L0004518 ,
		L0004519 , L0004520 , L0004521 , L0004522 , L0004523 , L0004524 , L0004525 , L0004526 ,
		L0004527 , L0004528 , L0004529 , L0004530 , L0004531 , L0004532 , L0004533 , L0004534 ,
		L0004535 , L0004536 , L0004537 , L0004538 , L0004539 , L0004540 , L0004541 , L0004542 ,
		L0004543 , L0004544 , L0004545 , L0004546 , L0004547 , L0004548 , L0004549 , L0004550 ,
		L0004551 , L0004552 , L0004553 , L0004554 , L0004555 , L0004556 , L0004557 , L0004558 ,
		L0004559 , L0004560 , L0004561 , L0004562 , L0004563 , L0004564 , L0004565 , L0004566 ,
		L0004567 , L0004568 , L0004569 , L0004570 , L0004571 , L0004572 , L0004573 , L0004574 ,
		L0004575 , L0004576 , L0004577 , L0004578 , L0004579 , L0004580 , L0004581 , L0004582 ,

L0004583 , L0004584 , L0004585 , L0004586 , L0004587 , L0004588 , L0004589 , L0004590 ,

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L0004599 , L0004600 , L0004601 , L0004602 , L0004603 , L0004604 , L0004605 , L0004606 ,

L0004607 , L0004608 , L0004609 , L0004610 , L0004611 , L0004612 , L0004613 , L0004614 ,

L0004615 , L0004616 , L0004617 , L0004618 , L0004619 , L0004620 , L0004621 , L0004622 ,

L0004623 , L0004624 , L0004625 , L0004626 , L0004627 , L0004628 , L0004629 , L0004630 ,

L0004631 , L0004632 , L0004633 , L0004634 , L0004635 , L0004636 , L0004637 , L0004638 ,

L0004639 , L0004640 , L0004641 , L0004642 , L0004643 , L0004644 , L0004645 , L0004646 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0004647 , L0004648 , L0004649 , L0004650 , L0004651 , L0004652 , L0004653 , L0004654 ,

L0004655 , L0004656 , L0004657 , L0004658 , L0004659 , L0004660 , L0004661 , L0004662 ,

L0004663 , L0004664 , L0004665 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

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    ( 445238.2, 3760514.2,     205.5,     205.5,       0.0);         ( 445233.6,
3759948.1,     200.7,     200.7,       0.0);
    ( 445947.0, 3759536.6,     201.0,     201.0,       0.0);         ( 445976.3,
3759535.3,     200.8,     200.8,       0.0);
    ( 445973.6, 3759453.8,     199.9,     199.9,       0.0);         ( 445713.0,
3759410.7,     200.6,     200.6,       0.0);
    ( 445850.0, 3759405.6,     200.0,     200.0,       0.0);         ( 445248.7,
3760635.8,     205.9,     205.9,       0.0);
    ( 445265.0, 3760962.7,     207.3,     207.3,       0.0);         ( 445245.8,
3760352.4,     204.1,     204.1,       0.0);
    ( 445235.9, 3760332.8,     204.0,     204.0,       0.0);         ( 445234.0,
3760306.9,     203.8,     203.8,       0.0);
    ( 445230.4, 3760292.9,     203.7,     203.7,       0.0);         ( 445230.0,
3760278.1,     203.5,     203.5,       0.0);
    ( 445229.4, 3760263.4,     203.4,     203.4,       0.0);         ( 445232.7,
3760158.9,     202.2,     202.2,       0.0);
    ( 445232.0, 3760173.6,     202.3,     202.3,       0.0);         ( 445231.2,
3760186.2,     202.5,     202.5,       0.0);
    ( 445231.2, 3760202.4,     202.7,     202.7,       0.0);         ( 445231.2,
3760217.2,     202.8,     202.8,       0.0);
    ( 445230.8, 3760232.3,     203.0,     203.0,       0.0);         ( 445230.5,
3760248.2,     203.2,     203.2,       0.0);
    ( 445230.7, 3760024.3,     201.1,     201.1,       0.0);         ( 445234.5,
3759988.6,     200.9,     200.9,       0.0);
    ( 445232.9, 3760052.6,     201.2,     201.2,       0.0);         ( 445232.9,
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    ( 445232.3, 3760120.8,     201.8,     201.8,       0.0);         ( 445228.9,
3759925.2,     200.6,     200.6,       0.0);
    ( 445227.5, 3759847.7,     199.9,     199.9,       0.0);         ( 445230.8,
3760139.8,     202.0,     202.0,       0.0);
    ( 445963.4, 3759341.6,     198.9,     198.9,       0.0);         ( 445841.2,
3759336.4,     199.4,     199.4,       0.0);
    ( 444672.4, 3758927.0,     189.5,     189.5,       0.0);         ( 444656.8,
3758925.7,     189.4,     189.4,       0.0);
    ( 444707.3, 3758930.1,     189.9,     189.9,       0.0);         ( 444759.9,
3758947.1,     190.2,     190.2,       0.0);
    ( 446032.6, 3759620.0,     201.0,     201.0,       0.0);         ( 445148.8,
3759119.0,     194.2,     194.2,       0.0);
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(445076.7, 3759087.0, 194.1, 194.1, 0.0); (445611.7, 3759613.8, 202.4, 202.4, 0.0);
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(445701.5, 3759610.4, 201.9, 201.9, 0.0); (445794.6, 3759608.5, 201.8, 201.8, 0.0);
(445739.8, 3759606.6, 201.7, 201.7, 0.0); (445831.0, 3759603.8, 201.7, 201.7, 0.0);
(445856.1, 3759604.3, 201.7, 201.7, 0.0); (445612.6, 3759667.5, 202.9, 202.9, 0.0);
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(445612.6, 3759725.2, 203.5, 203.5, 0.0); (445613.9, 3759820.4, 204.6, 204.6, 0.0);
(445248.2, 3760733.8, 206.9, 206.9, 0.0); (445246.8, 3760660.1, 206.1, 206.1, 0.0);
(445244.4, 3760471.8, 205.4, 205.4, 0.0); (444368.5, 3759466.8, 194.1, 194.1, 0.0);
(444334.6, 3759459.7, 194.1, 194.1, 0.0); (444318.5, 3759455.2, 194.0, 194.0, 0.0);
(444298.0, 3759423.5, 193.7, 193.7, 0.0); (444367.4, 3759451.2, 194.0, 194.0, 0.0);
(444335.4, 3759444.8, 193.9, 193.9, 0.0); (445251.2, 3759860.3, 199.7, 199.7, 0.0);
(445272.6, 3759870.6, 199.6, 199.6, 0.0); (445292.7, 3759880.4, 199.7, 199.7, 0.0);
(445312.8, 3759884.9, 199.7, 199.7, 0.0); (445149.2, 3760431.4, 206.8, 206.8, 0.0);
(445152.1, 3760699.0, 207.1, 207.1, 0.0); (445152.1, 3760574.7, 207.1, 207.1, 0.0);
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(442042.9, 3758819.2, 190.0, 190.0, 0.0); (444258.7, 3758748.9, 187.4, 187.4, 0.0);
(444191.5, 3758758.9, 187.5, 187.5, 0.0); (445242.7, 3759011.2, 191.5, 191.5, 0.0);
(442554.9, 3758824.7, 190.1, 190.1, 0.0); (444950.7, 3759322.0, 194.6, 194.6, 0.0);
(444823.2, 3759296.0, 194.3, 194.3, 0.0); (444711.4, 3759310.1, 193.5, 193.5, 0.0);
(444508.8, 3759233.4, 191.7, 191.7, 0.0); (444225.4, 3759306.8, 192.4, 192.4, 0.0);
(444233.5, 3759076.5, 189.9, 189.9, 0.0); (444159.4, 3759026.7, 189.4, 189.4, 0.0);
(444606.4, 3759271.1, 192.5, 192.5, 0.0); (445147.0, 3759304.7, 196.0, 196.0, 0.0);
(444452.6, 3759695.3, 196.6, 196.6, 0.0); (444272.1, 3759689.2, 196.5, 196.5, 0.0);

(444155.2, 3759701.3, 196.7, 196.7, 0.0); (444021.7, 3759715.0, 197.0, 197.0, 0.0);
(444094.5, 3759850.0, 198.3, 198.3, 0.0); (444387.4, 3759848.5, 198.9, 198.9, 0.0);
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** ***
*** 10:27:00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(444516.8, 3760120.1, 202.2, 202.2, 0.0); (445103.1, 3759803.6, 200.7, 200.7, 0.0);
(445004.9, 3759798.2, 199.4, 199.4, 0.0); (444594.1, 3759643.7, 196.1, 196.1, 0.0);
(444812.2, 3759714.6, 197.9, 197.9, 0.0); (444943.1, 3760038.2, 201.4, 201.4, 0.0);
(445254.0, 3759658.2, 197.4, 197.4, 0.0); (445257.6, 3759432.8, 195.0, 195.0, 0.0);
(445256.1, 3759354.6, 194.2, 194.2, 0.0); (445261.6, 3759515.7, 195.8, 195.8, 0.0);
(442401.0, 3758488.9, 186.4, 186.4, 0.0); (442284.1, 3758550.2, 187.8, 187.8, 0.0);
(442256.3, 3758595.4, 189.1, 189.1, 0.0); (447679.5, 3759176.6, 192.2, 192.2, 0.0);
(447716.3, 3759065.3, 191.0, 191.0, 0.0); (447734.8, 3759164.1, 192.1, 192.1, 0.0);
(445904.6, 3758497.4, 190.7, 190.7, 0.0); (445868.2, 3758280.7, 189.0, 189.0, 0.0);
(445852.3, 3758124.2, 187.7, 187.7, 0.0); (447492.6, 3757912.4, 182.0, 182.0, 0.0);
(447438.8, 3757366.9, 182.0, 182.0, 0.0); (447432.7, 3757455.6, 182.0, 182.0, 0.0);
(447225.2, 3757727.7, 182.0, 182.0, 0.0); (447471.8, 3757691.6, 182.0, 182.0, 0.0);
(447225.2, 3757433.0, 182.0, 182.0, 0.0); (447227.1, 3757299.5, 182.0, 182.0, 0.0);
(447353.6, 3757116.7, 182.0, 182.0, 0.0); (447423.9, 3757226.6, 182.0, 182.0, 0.0);
(444986.8, 3759215.2, 193.8, 193.8, 0.0); (444833.7, 3759167.8, 192.9, 192.9, 0.0);
(444668.3, 3759105.0, 191.2, 191.2, 0.0); (444513.6, 3759063.6, 190.0, 190.0, 0.0);

(443938.5, 3759219.2, 191.4, 191.4, 0.0); (443490.8, 3758974.3, 188.7, 188.7, 0.0);
↑ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** ***
*** 10:27:00

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,
↑ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964 HRA 12-19.ISC *** 12/26/19
*** AERMET - VERSION 16216 *** ***
*** 10:27:00

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_V9_ADJU\KCNO_V9.SFC
Met Version: 16216
Profile file: KCNO_V9_ADJU\KCNO_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	0.21	1.23	91.	7.9	296.4	2.0
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	0.20	1.60	90.	7.9	299.9	2.0
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	0.20	1.98	92.	7.9	302.0	2.0

```
 12 01 01   1 14   94.6  0.185  1.215  0.005  674.  191.     -5.9  0.09   0.74
0.21    1.50   73.    7.9  303.1    2.0
 12 01 01   1 15   68.6  0.187  1.184  0.005  858.  194.     -8.4  0.09   0.74
0.25    1.59   64.    7.9  303.1    2.0
 12 01 01   1 16   24.9  0.255  0.862  0.005  911.  308.    -58.8  0.09   0.74
0.34    2.61   92.    7.9  300.4    2.0
 12 01 01   1 17  -13.7  0.168 -9.000 -9.000 -999.  168.     31.1  0.09   0.74
0.62    1.98  107.    7.9  295.4    2.0
 12 01 01   1 18  -26.7  0.279 -9.000 -9.000 -999.  354.     85.6  0.09   0.74
1.00    3.22  134.    7.9  291.4    2.0
 12 01 01   1 19   -8.0  0.118 -9.000 -9.000 -999.  120.     18.2  0.09   0.74
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                        ***        10:27:00

                                   PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                                   INCLUDING SOURCE(S):     L0003527    , L0003528
 , L0003529    , L0003530    , L0003531    ,
                   L0003532    , L0003533    , L0003534    , L0003535    , L0003536
 , L0003537    , L0003538    , L0003539    ,
                   L0003540    , L0003541    , L0003542    , L0003543    , L0003544
 , L0003545    , L0003546    , L0003547    ,
                   L0003548    , L0003549    , L0003550    , L0003551    , L0003552
 , L0003553    , L0003554    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
445238.19	3760514.16	0.00268	445233.56	3759948.14	0.00333
445946.95	3759536.60	0.00311	445976.32	3759535.26	0.00303
445973.65	3759453.83	0.00163	445713.04	3759410.72	0.00168
445850.00	3759405.65	0.00147	445248.70	3760635.80	0.00235
445264.97	3760962.69	0.00197	445245.76	3760352.44	0.00248
445235.94	3760332.80	0.00281	445233.98	3760306.94	0.00289
445230.38	3760292.87	0.00304	445230.05	3760278.14	0.00305
445229.40	3760263.41	0.00307	445232.73	3760158.88	0.00292
445231.99	3760173.64	0.00294	445231.25	3760186.18	0.00297
445231.25	3760202.42	0.00297	445231.25	3760217.17	0.00298
445230.77	3760232.26	0.00300	445230.52	3760248.16	0.00302
445230.74	3760024.31	0.00314	445234.47	3759988.59	0.00313
445232.87	3760052.57	0.00300	445232.87	3760081.36	0.00295
445232.34	3760120.81	0.00294	445228.86	3759925.16	0.00362
445227.50	3759847.66	0.00441	445230.76	3760139.78	0.00299
445963.37	3759341.65	0.00115	445841.17	3759336.43	0.00124
444672.37	3758927.02	0.00097	444656.76	3758925.66	0.00096
444707.31	3758930.07	0.00098	444759.88	3758947.10	0.00104
446032.57	3759620.04	0.00293	445148.82	3759119.05	0.00169

```
         445076.68    3759086.98        0.00160                    445611.66
3759613.75        0.00377
         445612.61    3759635.02        0.00304                    445673.59
3759608.07        0.00395
         445701.48    3759610.44        0.00376                    445794.61
3759608.54        0.00375
         445739.78    3759606.65        0.00394                    445831.01
3759603.82        0.00403
         445856.07    3759604.29        0.00397                    445612.65
3759667.51        0.00248
         445615.16    3759875.60        0.00141                    445613.90
3759765.28        0.00179
         445612.65    3759725.17        0.00199                    445613.90
3759820.44        0.00157
         445248.23    3760733.76        0.00236                    445246.79
3760660.09        0.00240
         445244.38    3760471.82        0.00249                    444368.51
3759466.75        0.00121
         444334.60    3759459.69        0.00108                    444318.50
3759455.17        0.00103
         444298.03    3759423.54        0.00099                    444367.38
3759451.16        0.00122
         444335.44    3759444.83        0.00110                    445251.21
3759860.26        0.00347
         445272.62    3759870.64        0.00297                    445292.73
3759880.38        0.00265
         445312.85    3759884.92        0.00243                    445149.18
3760431.38        0.00198
         445152.10    3760699.05        0.00195                    445152.10
3760574.72        0.00199
         443506.68    3758827.76        0.00172                    443038.73
3758822.05        0.00147
         442042.91    3758819.20        0.00129                    444258.68
3758748.89        0.00066
         444191.48    3758758.87        0.00070                    445242.67
3759011.16        0.00106
         442554.87    3758824.74        0.00145                    444950.74
3759321.97        0.01040
         444823.16    3759295.98        0.00560                    444711.42
3759310.12        0.00482
         444508.79    3759233.38        0.00242                    444225.39
3759306.75        0.00088
 *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                           ***       10:27:00
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0003527 , L0003528 , L0003529 , L0003530 , L0003531 , L0003532 , L0003533 , L0003534 , L0003535 , L0003536 , L0003537 , L0003538 , L0003539 , L0003540 , L0003541 , L0003542 , L0003543 , L0003544 , L0003545 , L0003546 , L0003547 , L0003548 , L0003549 , L0003550 , L0003551 , L0003552 , L0003553 , L0003554 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF DPM IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
444233.47	3759076.53	0.00137	444159.42	3759026.72	0.00131
444606.40	3759271.07	0.00270	445146.95	3759304.73	0.00727
444452.62	3759695.27	0.00110	444272.07	3759689.20	0.00073
444155.24	3759701.34	0.00058	444021.72	3759715.00	0.00047
444094.55	3759850.03	0.00047	444387.38	3759848.51	0.00073
444516.78	3760120.14	0.00057	445103.11	3759803.64	0.00381
445004.94	3759798.19	0.00306	444594.07	3759643.66	0.00207
444812.23	3759714.56	0.00291	444943.13	3760038.16	0.00116
445254.01	3759658.20	0.00600	445257.64	3759432.77	0.00468
445256.09	3759354.61	0.00504	445261.65	3759515.68	0.00483
442401.01	3758488.86	0.00026	442284.06	3758550.23	0.00029
442256.27	3758595.38	0.00032	447679.52	3759176.63	0.00042
447716.34	3759065.34	0.00034	447734.75		

3759164.07   0.00039
         445904.65   3758497.38   0.00033   445868.21
3758280.72   0.00027
         445852.31   3758124.22   0.00024   447492.58
3757912.40   0.00013
         447438.75   3757366.86   0.00010   447432.73
3757455.58   0.00011
         447225.23   3757727.74   0.00013   447471.83
3757691.65   0.00012
         447225.23   3757433.02   0.00011   447227.11
3757299.50   0.00010
         447353.64   3757116.73   0.00009   447423.94
3757226.65   0.00010
         444986.85   3759215.24   0.00325   444833.70
3759167.76   0.00230
         444668.29   3759104.96   0.00154   444513.61
3759063.61   0.00131
         443938.55   3759219.17   0.00059   443490.76
3758974.26   0.00075

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***

** CONC OF DPM   IN MICROGRAMS/M**3 **

NETWORK GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	0.01040 AT (444950.74, 3759321.97, 194.60, 194.60, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.00727 AT (445146.95, 3759304.73, 195.97, 195.97, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.00600 AT (445254.01, 3759658.20, 197.44, 197.44, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.00560 AT (444823.16, 3759295.98,		

```
194.31,   194.31,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00504 AT (  445256.09,  3759354.61,
194.24,   194.24,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00483 AT (  445261.65,  3759515.68,
195.79,   195.79,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00482 AT (  444711.42,  3759310.12,
193.45,   193.45,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00468 AT (  445257.64,  3759432.77,
194.96,   194.96,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00441 AT (  445227.50,  3759847.66,
199.85,   199.85,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00403 AT (  445831.01,  3759603.82,
201.70,   201.70,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION  19191 ***   *** C:\LAKES\AERMOD VIEW\11964 HRA 12-19\11964
HRA 12-19.ISC             ***        12/26/19
 *** AERMET - VERSION  16216 ***   ***
                        ***        10:27:00
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1279 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          917 Calm Hours Identified

 A Total of          362 Missing Hours Identified (  0.83 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2875       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
```

```
     0.50
ME W187    2875       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

AVERAGE EMISSION FACTOR
RIVERSIDE COUNTY 2021

Speed	LHD1	MHD	HHD
0	0.385767	0.216593	0.02200
5	0.040205	0.182045	0.08992
25	0.014198	0.069618	0.03903

Speed	**Weighted Average Emissions**
0	**0.10561**
5	**0.09741**
25	**0.04032**

Emission Rates - 2021 Emission Factors (With Limonite Extension)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
Building 1 On-Site Idling	33			0.1056	0.87	1.008E-05
Building 2 On-Site Idling	15			0.1056	0.40	4.584E-06
Building 3 On-Site Idling	10			0.1056	0.26	3.056E-06
Building 4 On-Site Idling	16			0.1056	0.42	4.889E-06
Building 5 On-Site Idling	13			0.1056	0.34	3.973E-06
Building 6 On-Site Idling	18			0.1056	0.48	5.500E-06
Building 7 On-Site Idling	99			0.1056	2.61	3.025E-05
Buildings 1 On-Site Travel	66	13.29	0.0974		1.29	1.498E-05
Building 2 On-Site Travel	30	5.74	0.0974		0.56	6.473E-06
Building 3 On-Site Travel	20	1.65	0.0974		0.16	1.865E-06
Building 4 On-Site Travel	32	6.06	0.0974		0.59	6.833E-06
Building 5 On-Site Travel	26	0.99	0.0974		0.10	1.120E-06
Building 6 On-Site Travel	36	7.11	0.0974		0.69	8.020E-06
Building 7 On-Site Travel	198	62.77	0.0974		6.11	7.077E-05
5% Inbound Dwy 6	10	0.18	0.0403		0.01	8.576E-08
15% Inbound Dwy 7	31	9.50	0.0403		0.38	4.433E-06
20% Inbound on Limonite	41	15.39	0.0403		0.62	7.182E-06
40% Inbound on Limonite	82	19.89	0.0403		0.80	9.279E-06
20% Inbound on Limonite	41	9.43	0.0403		0.38	4.401E-06
20% Outbound on Limonite	41	9.43	0.0403		0.38	4.401E-06
75% Outbound on Limonite	153	36.26	0.0403		1.46	1.692E-05
40% Outbound	82	9.79	0.0403		0.39	4.566E-06
40% Outbound	82	1.25	0.0403		0.05	5.820E-07
20% Inbound/Outbound (Limonite Extension)	82	164.26	0.0403		6.62	7.664E-05
40% Inbound/Outbound on Archibald Av.	163	260.79	0.0403		10.51	1.217E-04
40% Inbound/Outbound on Limonite	163	266.63	0.0403		10.75	1.244E-04

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

calendar_y	season_mo	sub_area	vehicle_class	fuel	temperatu	relative_hu	process	speed_tim	pollutant	emission_rate
2021	Annual	San Bernar	HHDT	Dsl	60	70	RUNEX	5	PM10	0.094089
2021	Annual	San Bernar	HHDT	Dsl	60	70	RUNEX	25	PM10	0.040889
2021	Annual	San Bernar	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.076505
2021	Annual	San Bernar	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.027274
2021	Annual	San Bernar	MHDT	Dsl	60	70	RUNEX	5	PM10	0.166041
2021	Annual	San Bernar	MHDT	Dsl	60	70	RUNEX	25	PM10	0.063809
2021	Annual	San Bernar	HHDT	Dsl			IDLEX		PM10	0.024894
2021	Annual	San Bernar	LHDT1	Dsl			IDLEX		PM10	0.791365
2021	Annual	San Bernar	MHDT	Dsl			IDLEX		PM10	0.211198

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: RIVERSIDE
Calendar Year: 2021
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
RIVERSID	2021	HHDT	Aggregate	Aggregate	GAS	8.256088
RIVERSID	2021	HHDT	Aggregate	Aggregate	DSL	27250.49
RIVERSID	2021	HHDT	Aggregate	Aggregate	NG	278.9619
RIVERSID	2021	LHDT1	Aggregate	Aggregate	GAS	20885.97
RIVERSID	2021	LHDT1	Aggregate	Aggregate	DSL	19999.78
RIVERSID	2021	MHDT	Aggregate	Aggregate	GAS	1963.204
RIVERSID	2021	MHDT	Aggregate	Aggregate	DSL	15756.36

HHDT% GAS/NG	0.01043
HHDT% DSL	0.98957
LHDT1% GAS	0.510837
LHDT1% DSL	0.489163
MHDT% GAS	0.110793
MHDT% DSL	0.889207

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APPENDIX 2.2:

RISK CALCULATIONS

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00441	4.41E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.5E-06	4.9E-08	5.0E+00	1.4E-03	8.8E-04							
TOTAL								4.9E-08			8.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00441	4.41E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.6E-06	1.2E-06	5.0E+00	1.4E-03	8.8E-04							
TOTAL								1.2E-06			8.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00441	4.41E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.4E-06	1.1E-06	5.0E+00	1.4E-03	8.8E-04							
TOTAL								1.1E-06			8.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00441	4.41E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-06	1.7E-07	5.0E+00	1.4E-03	8.8E-04							
TOTAL								1.7E-07			8.8E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.17										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) 2.49

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	1.04E-02	1.04E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.6E-06	6.1E-07	5.0E+00	1.4E-03	2.1E-03							
	TOTAL								6.3E-07			2.1E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.63										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Table 6
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
9-Year School Child Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	4.20E-04	4.20E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.2E-07	4.8E-08	5.0E+00	1.4E-03	8.4E-05							
	TOTAL								4.8E-08			8.4E-05	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.05										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	180
exposure duration (years)	9
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
age sensitivity factor (ages 4-13)	3