Appendix 9.3
Air Quality Data

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AIR QUALITY TECHNICAL REPORT

GARDENA TRANSIT ORIENTED DEVELOPMENT (TOD) SPECIFIC PLAN GARDENA, CALIFORNIA

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ACRONYMS AND ABBREVIATIONS

ARB:	California Air Resources Board
CalEEMod®:	California Emission Estimator Model
CAP:	Criteria Air Pollutant
CO:	carbon monoxide
EMFAC:	ARB's on-road mobile source emission factor model
EV:	Electric Vehicle
GHG:	greenhouse gas
LST:	Localized Significance Threshold
NO_2:	nitrogen dioxide
NO_X:	oxides of nitrogen
OFFROAD:	ARB's off-road mobile source emission factor model
PM:	particulate matter
PM_{10}:	particulate matter with an aerodynamic radius less than 10 micrometers
$PM_{2.5}$:	particulate matter with an aerodynamic radius less than 2.5 micrometers
ROG:	reactive organic gases
SCAQMD:	South Coast Air Quality Management District
SO_X:	oxides of sulfur
TOD:	Transit Oriented Development
USEPA:	United States Environmental Protection Agency
VMT:	vehicle miles travelled
VOC:	volatile organic compounds

EXECUTIVE SUMMARY

The Gardena Transit Oriented Development (TOD) Specific Plan (the "Project") is a proposed residential development in the City of Gardena that involves the demolition of the existing one-story building, and construction of a new multi-family residential housing building with up to 265 dwelling units. The Project site is located on a 1.33-acre parcel at 12850 & 12900 Crenshaw Boulevard, Gardena, California. The proposed Project is expected to be built out by 2023, with construction beginning in 2021.

This report evaluates the air quality impacts associated with the construction and operation of the proposed Project. The proposed Project will result in emissions of criteria air pollutants (CAPs), such as nitrogen oxides (NO_x), carbon dioxide (CO), volatile organic compounds (VOC), sulfur oxides (SO_x), and particulate matter (PM) with an aerodynamic radius less than 10 micrometers (PM_{10}) or less than 2.5 micrometers ($PM_{2.5}$) during both construction and operation.

Ramboll US Corporation (Ramboll) used the California Emission Estimator Model (CalEEMod®) version 2016.3.2 program to develop CAP emission inventories for the proposed Project and the South Coast Air Quality Management District's (SCAQMD's) mass-based Localized Significance Thresholds (LSTs) to evaluate ambient air impacts associated with construction of the proposed Project.

Table ES-1 presents the maximum daily CAP emissions associated with Project construction. The proposed Project will comply with SCAQMD Rule 403 to minimize fugitive dust, which will include fugitive dust control by watering active construction areas. As shown in **Table ES-1**, emissions of all CAPs are less than SCAQMD's mass daily significance thresholds. Hence, the air quality impacts of maximum daily CAP emissions from Project construction would be less than significant.

Table ES-2 presents the maximum daily criteria air pollutant emissions associated with Project operation. The primary source of the operational CAP emissions (except VOC) is traffic-related mobile sources. In order to reduce the emissions associated with mobile sources, the proposed Project has committed to installing seven (7) electric vehicle (EV) charging stations and TDM measures (e.g., unbundled parking, pre-leasing for area employees, transit information, on-site residential bicycle parking, and ride-sharing pickup and dropoff). This analysis is conservative as it does not account for reductions in CAP emissions associated with the use of the EV chargers. As shown in **Table ES-2**, net emissions of all CAPs for the proposed Project as compared to the existing conditions are less than SCAQMD's mass daily significance thresholds. Hence, air quality impacts of the maximum daily CAP emissions from Project operation would be less than significant.

The localized air quality impacts of Project construction activities were evaluated using SCAQMD's LST methodology. **Table ES-3** presents a comparison of the Project-related emissions from on-site construction activities to the LSTs. Emissions from construction activities were estimated based on conservative assumptions to represent the maximum level of construction activity that may occur on the Project Site. Furthermore, the LST analysis assumes that the maximum daily emissions would occur during the worst-case meteorological conditions, which is not likely. As shown in **Table ES-3**, Project-related on-site construction emissions would not result in an exceedance of LSTs for nitrogen dioxide (NO_2), CO, PM_{10}, and $PM_{2.5}$ standards. Therefore, the Project's contribution to the localized air concentrations of these pollutants would be less than significant.

1. INTRODUCTION

The purpose of this technical report is to present the quantitative analyses that were used to evaluate the Project's air quality emissions. Emissions during both construction and operations of the proposed Project were quantified. In addition, the localized criteria pollutant concentrations were evaluated using the mass-based Localized Significance Thresholds (LSTs) to evaluate ambient air impacts associated with construction of the proposed Project.

1.1 Project Description

The Gardena Transit Oriented Development (TOD) Specific Plan (the "Project") is a proposed residential development in the City of Gardena, California that involves the demolition of the existing one-story building, and construction of a new multi-family residential housing building with up to 265 dwelling units. The Project site is located on a 1.33-acre parcel at 12850 & 12900 Crenshaw Boulevard, Gardena, California. The proposed Project is expected to be built out by 2023, with construction beginning in in 2021. **Table 1** summarizes the land uses for the proposed Project.

Analysis of the proposed Project's air quality emissions incorporates the following regulatory measures:

Regulatory Measures

Construction

- Compliance with SCAQMD Rule 403 regarding fugitive dust. The construction emission estimates include a fugitive dust control factor, which is a conservative representation of the level of fugitive dust control expected through compliance with South Coast Air Quality Management District (SCAQMD) Rule 403.
- Compliance with SCAQMD Rule 1113 regarding Architectural Coatings. This rule limits the volatile organic compound (VOC) content of architectural coatings used in the SCAQMD. The rule provides various standards for the coating category. California Emission Estimator Model (CalEEMod®) includes assumptions regarding the requirements of SCAQMD Rule 1113 (amended February 5, 2016).[1]

Operational

- Compliance with SCAQMD Rule 445 regarding Wood-Burning Devices. This rule limits the installation of wood-burning devices into any new development. Therefore, all cooking stoves are assumed to be natural gas burning. The dwelling units will not have fireplaces.
- New residential buildings will meet the 2019 Title 24 Part 6 building code.

[1] Available at: http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf. Accessed: April 2020.

Project Design Features

The following project design features were incorporated into the analysis, which are described in the inventory:

Construction

- The Project will include watering of active construction areas at least three times daily to minimize fugitive dust emissions.[2]

Operational

- The proposed Project will install seven (7) Level 2 electric vehicle charging stations in the parking structure for the building tenants.
- The proposed Project will implement transportation demand management (TDM) strategies in the Gardena Transit Oriented Development Specific Plan (GTODSP) area to advance the vision for multi-modal transportation. These strategies include:
    - **Unbundled Parking**: There shall be a charge for parking spaces. The property owner shall unbundle automobile parking charges from the rents or other fees charged for leasing residential units in the specific plan area.
    - **Pre-Leasing for Area Employees**: Residential units within the specific plan area shall be marketed exclusively for a thirty-day period to employees working within a one-half mile radius of the development, before the units are offered for rent to the general public. The developer shall submit a pre-leasing marketing plan to the Community Development Director for review and approval prior to issuance of a temporary certificate of occupancy. The developer must then demonstrate compliance with the approved thirty-day exclusive marketing plan prior to issuance of a final certificate of occupancy.
    - **Transit Information**: To ensure that residential tenants are aware of transit options and TDM programs available to them, an information board or kiosk shall be posted in a central location in the building.
    - **On-site Residential Bicycle Parking**: One bicycle parking space shall be provided per every two residential units (located in secured facilities accessible only by residents). All bicycle parking shall be located in a safe, convenient location, encouraging the use of bicycle transportation by residents and guests.
    - **Ride-Sharing Pick-Up/Drop-Off**: A designated loading area within the GTODSP shall be signed and distinguished (e.g., with paving and/or paint) so that it may be utilized as a pick-up and drop-off zone for ride-sharing services.
- The proposed Project will install a solar swimming pool heating system.

[2] Note that the control efficiency of watering is dependent on numerous variables such as soil/ground conditions, temperature, and vehicle travel specifics. For unpaved roads, increased frequency and/or water amounts are expected to improve the control efficiency. The control effectiveness in this analysis is based on the CalEEMod® default for this watering assumption.

1.2 Existing Conditions

Existing land uses within the Project site include a one-story warehouse building and surface parking lot. **Table 2** lists the existing land use and building square footage. The criteria pollutant emissions from the existing land use were estimated using CalEEMod® as described in Section 3 and are shown in **Table ES-2**. The nearest sensitive receptor is a residential location to the East across the Dominguez Channel.

2. SIGNIFICANCE THRESHOLDS

The SCAQMD has established significance thresholds[3] to assess the impacts of project-related construction and operational emissions on regional and local ambient air quality. **Table 3** shows the mass daily thresholds for construction and operations as adopted by the SCAQMD for criteria pollutant emissions evaluated in this analysis. The analysis summarized in this report estimates project-related construction and operational mass emissions and compares the emissions to these mass daily significance thresholds. This report also compares the ambient air quality impacts from on-site construction activities to the state and local ambient air quality standards, for which the SCAQMD has established Localized Significance Thresholds (LSTs).[4] LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard. The SCAQMD's methodology does not require an evaluation of ambient air impacts for operational emissions because the proposed Project does not include any of the land uses that typically require such an analysis to be performed.[5] The primary emissions from operational activities that would require an evaluation of project emissions relative to ambient air quality significance thresholds include, but are not limited to, NO_x and CO combustion emissions from stationary sources such as flares and turbines, and/or significant on-site mobile sources such as idling heavy duty trucks. The LST emission levels are presented in **Table 3**.

[3] SCAQMD, 2019. Air Quality Significance Thresholds. April. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf. Accessed: April 2020.

[4] SCAQMD, 2008. Final LST Methodology Document. Available at: http://www.aqmd.gov/ceqa/handbook/lst/lst.html. Accessed: April 2020.

[5] SCAQMD. 2008. Final Localized Significance Threshold Methodology. July. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf?sfvrsn=2. Accessed: April 2020.

3. CRITERIA POLLUTANT EMISSION INVENTORIES

This section describes the methodology that Ramboll US Corporation (Ramboll) used to develop the criteria pollutant emissions inventories associated with the proposed Project, which include construction and operational emissions. Sub-categories of the operational emissions include: area sources, energy use, and mobile sources.

3.1 Methodology for Calculating Mass Emissions

This analysis focuses on the potential change in air quality due to implementation of the proposed Project. The proposed Project would result in criteria pollutant emissions from construction and operational sources. Construction activities would generate emissions at the site from on-site construction equipment, and on roadways resulting from construction-related truck hauling, vendor deliveries, and worker commuting. Operational activities would also generate emissions at the Project site from miscellaneous on-site sources, such as natural gas combustion for cooking and comfort heating and landscaping equipment, and off-site from operational-related traffic.

To estimate the criteria pollutant emissions from the proposed Project, Ramboll directly or indirectly relied primarily on emissions estimation guidance from government-sponsored organizations, the transportation study by Fehr & Peers Transportation Consultants, and emission estimation software.

CalEEMod®

Ramboll primarily utilized the California Emission Estimator Model version 2016.3.2 (CalEEMod®)[6] to assist in quantifying the criteria air pollutant emissions in the inventories presented in this report for the proposed Project. CalEEMod® is a state-wide program designed to calculate both criteria and greenhouse gas (GHG) emissions from development projects in California.

CalEEMod® is based upon California Air Resources Board (ARB) approved Off-Road and On-Road Mobile-Source Emission Factor models (OFFROAD and EMFAC, respectively), and is designed to estimate construction and operational emissions for land use development projects and allows for the input of project-specific information. OFFROAD2011[7] is an emissions factor model used in CalEEMod® to calculate emission rates from off-road mobile sources (e.g., construction equipment, agricultural equipment). EMFAC2014[8] is the emissions factor model used in CalEEMod® to calculate emissions rates from on-road vehicles (e.g., passenger vehicles, haul trucks). Given that a newer version of EMFAC (EMFAC2017) is available and approved, mobile source operational emissions were estimated based on CalEEMod® methodology using EMFAC2017 emission factors and CARB SAFE Rule adjustment factors along with Project-specific values where available.

CalEEMod® provides a simple platform to calculate both construction emissions and operational emissions from a land use project. It calculates both the maximum daily and

[6] CAPCOA. 2017. California Emissions Estimator Model. Version 2016.3.2. Available at: http://www.caleemod.com/. Accessed: April 2020.

[7] ARB. Overview: OFFROAD Model. Available at: https://www.arb.ca.gov/msei/offroad/pubs/offroad_overview.pdf. Accessed: April 2020.

[8] ARB. 2014. EMFAC2014 Volume I - User's Guide. Available at: https://www.arb.ca.gov/msei/downloads/emfac2014/emfac2014-vol1-users-guide-052015.pdf. Accessed April 2020.

annual average emissions for criteria air pollutants as well as total or annual GHG emissions. The model also provides default values for water and energy use.

CalEEMod® contains default values and existing regulatory methodologies to use in each specific local air district region. Appropriate statewide default values can be utilized if regional default values are not defined. Ramboll used default factors for Los Angeles - South Coast County area that is within the SCAQMD jurisdiction for the emission inventory, unless otherwise noted in the methodology descriptions below. Details regarding the specific methodologies used by CalEEMod® can be found in the CalEEMod® User's Guide and associated appendices.[9] The CalEEMod® output files are provided for reference in **Appendix A** to this report.

3.2 Construction Emissions

This section describes the estimation of emissions from construction activities at the Project site. The major construction phases for the proposed Project included in this analysis are:

- Demolition: involves tearing down of the existing building on the Project site.
- Site Preparation: involves clearing vegetation (grubbing and tree/stump removal) and stones prior to grading.
- Grading: involves the cut and fill of land to ensure the proper base and slope for the construction foundation.
- Building Construction: involves the construction of structures and buildings.
- Architectural Coating: involves the application of coatings to both the interior and exterior of buildings or structures.
- Paving: involves the laying of concrete or asphalt such as in parking lots or roads.

Emissions from these construction phases are largely attributable to fuel use from construction equipment and worker commuting.

Construction-related emissions of reactive organic gases (ROGs), NO_x, CO, PM_{10}, and $PM_{2.5}$ were estimated using CalEEMod®. PM emissions are composed of exhaust emissions and fugitive emissions. Exhaust emissions are typically given out by a combustion engine of on-road vehicles and/or off-road equipment. Fugitive emissions are PM dust suspended in the air by wind action and construction-related activities. Default on-site equipment lists in CalEEMod® supplemented with Project-specific modifications were used for the various construction phases. CalEEMod® default values were used for equipment and vehicle emission factors, equipment load factors, and vehicle trip lengths.

Ramboll was provided with a construction start date and duration and relied upon CalEEMod® defaults to estimate the phasing schedule and numbers and types of equipment that will be used in each construction phase (i.e., demolition, grading) of the proposed Project. The emission calculations are intended to estimate maximum daily emissions. Each piece of equipment was assumed to operate based on CalEEMod® default assumptions (i.e., load factor and operational hours). The construction is expected to commence in 2021 and is anticipated to be completed in 2023. The construction schedule, equipment list, and grading information are shown in **Table 4**, **Table 5**, and **Table 6**, respectively. Construction

[9] SCAQMD, 2017, California Emissions Estimator Model User's Guide. Version 2016.3.2. Available at: http://www.caleemod.com/. Accessed: April, 2020.

emissions are estimated assuming one shift working up to 11 hours per day, for six days in a week. The CalEEMod® output files are included in **Appendix A**.

3.2.1 Emissions from Construction Equipment

The emission calculations associated with construction equipment are from off-road equipment engine use based on the assumptions summarized above. The fugitive emissions from off-road equipment performing work are also included in this analysis.

Since the majority of the off-road construction equipment used for construction projects are diesel fueled, CalEEMod® assumes all of the equipment operates on diesel fuel. The calculations associated with on-site construction equipment include the running exhaust emissions from off-road equipment. Since the equipment is assumed to be diesel, there are no starting or evaporative emissions associated with the equipment as these are de minimis for diesel-fueled equipment. CalEEMod® calculates the exhaust emissions based on CARB's OFFROAD2011 methodology using the equation presented below.[10]

$$Emissions_{Diesel} = \sum_{i} (EF_i \times Pop_i \times AvgHP_i \times Load_i \times Activity_i)$$

Where:

EF:	Emission factor in grams per horsepower-hour (g/bhp-hr) as processed from OFFROAD2011
Pop:	Population, or the number of pieces of equipment
AvgHp:	Maximum rated average horsepower
Load:	Load factor
Activity:	Hours of operation
i:	Equipment type

CalEEMod® was also used to calculate fugitive dust associated with the site preparation and grading phases, for example, from activities such as: haul road grading, earth bulldozing, and truck loading. For fugitive dust calculations during grading and site preparation, the maximum number of acres graded in a day is determined by the number of grading equipment, which is assumed to operate for up to 11 hours. PM_{10} and $PM_{2.5}$ emissions from fugitive dust will be controlled by watering the construction site thrice daily in accordance with the SCAQMD Rule 403 and as committed to by the Project. CalEEMod® defaults assume watering the construction site three times a day reduces the fugitive dust emissions by 61%.

The emissions associated with off-road construction equipment during various phases of construction are shown in the CalEEMod® output files in **Appendix A**. The portion of the maximum daily construction emissions that are associated with on-site activity such as off-road construction equipment are shown in **Table ES-1**. The maximum daily emissions typically occur during the grading and building construction phases.

3.2.2 Emissions from On-Road Trips

Construction generates on-road vehicle exhaust (including evaporative emissions) and entrained road dust emissions from personal vehicles for worker/vendor commuting and trucks for soil/material hauling. These emissions are based on the number of trips and

[10] SCAQMD, 2017, California Emissions Estimator Model User's Guide, Appendix A, pages 7. Version 2016.3.2. Available at: http://www.CalEEMod.com/. Accessed: April 2020.

vehicle miles traveled (VMT) along with EMFAC2017 emission factors from outside of CalEEMod®. The numbers of worker and vendor trips represent defaults from CalEEMod® based on the construction equipment to be used. The number of haul trips was estimated based on the volume of soil to be imported and exported, and the CalEEMod® default assumption for haul truck capacity of 16 cubic yards per truck.

CalEEMod® methodology was also used to calculate on-road fugitive dust associated with paved and unpaved roads using the default emission factors from United States Environmental Protection Agency (USEPA) AP-42. The vehicle miles traveled from worker commuting, vendor commutes, soil hauling, and demolition hauling are accounted for in this analysis.

The emissions associated with on-road activities during various phases of construction can be seen in the tables in **Appendix B**. The worker, vendor, and hauling construction trips emissions were not calculated within CalEEMod® in order to incorporate EMFAC2017 emission factors and CARB SAFE Rule adjustment factors, therefore the CalEEMod® output files show zero for these related emissions. Portions of the maximum daily construction emissions that are associated with worker, vendor, and haul trips are presented in **Table ES-1**.

3.2.3 Emissions from Architectural Coating

VOC or VOC off-gassing emissions result from evaporation of solvents contained in surface coatings, such as paints. CalEEMod® calculates the VOC evaporative emissions from application of residential and non-residential surface coatings.

Unmitigated emissions for coating categories were calculated based on default VOC content data from CalEEMod®, which was provided by the air districts, including SCAQMD where the proposed Project would be located. The CalEEMod® default VOC content for SCAQMD is based on SCAQMD Rule 1113.

The emissions associated with architectural coating are included as a part of on-site construction emissions as shown in the CalEEMod® output file in **Appendix A**.

3.2.4 Emissions from Paving

CalEEMod® estimates VOC off-gassing emissions associated with asphalt paving of parking lots. The VOC off-gassing emissions associated with paving are included as a part of on-site construction emissions as shown in in the CalEEMod® output file in **Appendix A**.

3.2.5 Maximum Daily Emissions from Construction

Since construction phases may or may not overlap in time, the maximum daily construction emissions will not necessarily be the sum of all possible daily emissions. CalEEMod®, therefore, calculates the maximum daily emissions for each construction phase. The program will then add together the maximum daily emissions for each construction phase that overlaps in time. Finally, the program will report the highest of these combined overlapping phases as a daily maximum. The maximum daily CAP emissions estimated due to construction of the proposed Project are summarized in **Table ES-1**. The estimated emissions show that the regional daily emissions for construction are less than the SCAQMD mass daily significance thresholds for all pollutants. Hence, the air quality impacts of maximum daily CAP emissions from Project construction would be less than significant.

The construction emission estimates are assumed to conservatively represent the maximum emissions for the proposed Project. The proposed Project will comply with SCAQMD Rules

and Regulations that require the use of low VOC containing coatings to minimize the potential VOC emissions.

3.3 Maximum Daily Emissions from Project Operation

Operational emissions are emissions that would occur after build-out of the proposed Project. This analysis identifies operational emissions for source categories including area sources, energy use, and mobile sources. The CAP operational mass emissions of VOC, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$ from area sources, mobile sources, and energy use were estimated using CalEEMod®. The CalEEMod® output can be found in **Appendix A**.

3.3.1 Area Sources

Area sources are emission sources that are generally too small to be uniquely identified as point sources, and are thus generally aggregated as a group. CalEEMod® estimates emissions for the following sources, which are included under the category of "area" sources: landscaping equipment (e.g., lawn mowers), hearths, consumer products, and architectural coatings. CAP emissions due to natural gas combustion in buildings could also be considered as an area source, but are reported by CalEEMod® in the emissions associated with building energy use (described below). The CAP emissions generated by the proposed Project were calculated using CalEEMod® defaults.

3.3.1.1 Landscaping Equipment

Landscape maintenance includes fuel combustion emissions from equipment such as lawnmowers, rototillers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers, as well as air compressors, generators, and pumps. The mass emissions of VOC, NO_X, CO, SO_X, PM_{10}, and $PM_{2.5}$ associated with landscaping equipment were calculated using the CalEEMod® default emission factors (i.e., grams per square foot per day for non-residential buildings and grams per dwelling unit per day for residential buildings), which were processed using OFFROAD2011 and ARB's Technical Memo: Change in Population and Activity Factors for Lawn and Garden Equipment.[11] Based on CalEEMod® defaults, all operational days (i.e., 250 days per year) were assumed to be summer days, with no snow days. Therefore, the emission factors were multiplied by the total building square footage and the number of summer days. Pieces of equipment that would typically be used in snow conditions, such as snow blowers, were assumed to have no operational days.

3.3.1.2 Consumer Products

Consumer products are chemically formulated products used by institutional consumers, including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; lawn and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products; but does not include other paint products, furniture coatings, or architectural coatings. SCAQMD did an evaluation of consumer product use compared to the total square footage of buildings using data from ARB consumer product Emission Inventory. VOC emissions from consumer product use were estimated based on the Project building area along with the default VOC emission rate in CalEEMod®[12] for Architectural Coatings.

[11] ARB. 2003. Change in Population and Activity Factors for Lawn and Garden Equipment. Available at: http://www.arb.ca.gov/msprog/offroad/sore/lawn-and-garden-activity.pdf. Accessed: April 2020.

[12] SCAQMD. 2017. California Emissions Estimator Model User's Guide. Appendix A. Page 41. Version 2016.3.2. November. Available at: http://www.caleemod.com. Accessed: April 2020.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers. The operational emission methodology for architectural coating is the same as the construction emission methodology. All land use buildings are assumed to be repainted at a rate of 10% of area per year, based on CalEEMod® default assumptions.

3.3.1.3 Estimated Emissions from Area Sources

Operational emissions associated with area sources of the proposed Project are shown in CalEEMod® output file in **Appendix A** and summarized in **Table ES-2**. The primary source of VOC emissions from area sources are consumer products, and the primary source of NO_x and CO emissions from area sources are landscaping equipment.

3.3.2 Building Energy Use

Criteria pollutants are emitted as a result of activities in buildings for which natural gas is typically used as an energy source. Combustion of any type of fuel emits criteria pollutants directly into the atmosphere; when this occurs in a building, this is a direct emission source associated with that building. Ramboll adjusted the default CalEEMod® emission factors for building energy to reflect the requirement that new buildings meet the 2019 Title 24 Part 6 building code. Climate zone 8 was selected based on the Project location and CalEEMod® forecast climate zone map. **Table 7** summarizes the CalEEMod® inputs used to model CAP emissions associated with energy use for proposed Project. Operational emissions associated with building energy use of the proposed Project are shown in CalEEMod® output file in **Appendix A** and summarized in **Table ES-2**.

3.3.3 Mobile Source Emissions

The CAP emissions associated with on-road mobile sources are generated from residents, workers, customers, and delivery vehicles visiting the land use types in the project. The emissions associated with on-road mobile sources includes running and starting exhaust emissions, evaporative emissions, brake and tire wear, and fugitive dust from paved and unpaved roads. Starting and evaporative emissions are associated with the number of starts or time between vehicle uses and the assumptions used in determining these values are described below. Idling exhaust emissions are based on the amount of time a vehicle spends idling. All of the other emissions are dependent on VMT. Ramboll used the Project-specific trip rates provided by the Fehr & Peers Transportation Consultants as inputs for the CalEEMod® model run.

3.3.3.1 Vehicle Trip Type

In CalEEmod®, the trip type breakdown describes the purpose of the trip generated at each land use. For example, the trip type breakdown indicates the percentage of trips generated at single family home for work, for shopping, and for other purposes. Two sets of trip type breakdown are used in CalEEMod®.[13]

- **Residential Trips** – These trips include home-work (H-W), home-shop (H-S), or home-other (H-O). An H-W trip represents the trip from the home to the workplace. An H-S trip represents the trip from the home to a land use were shopping takes place (generally retail). An H-O represents all other types of trips generated from the resident such as school, entertainment, etc. The trip type breakdown in CalEEMod® is from

[13] SCAQMD, 2017, California Emissions Estimator Model User's Guide, Appendix A, page 21. Version 2016.3.2. Available at: http://www.CalEEMod.com/. Accessed: April 2020.

district-supplied information or the 1999 Caltrans Statewide Travel Survey is used as default or specific information obtained from the various Districts.

- **Commercial Trips** – These trips include commercial-customer (C-C), commercial-work (C-W) and commercial-nonwork (C-NW). A C-C trip represents a trip made by someone who is visiting the commercial land use to partake in the services offered by the site. The C-W trip represents a trip made by someone who is employed by the commercial land use. The C-NW trip represents a trip associated with the commercial land use other than by customers or workers. An example of C-NW trips includes trips made by delivery vehicles of goods associated with the land use. The trip type breakdown from the number or workers and or truck trips from Institute of Transportation Engineers and an analysis of information provided for the South Coast Air Basin (SCAB) was used as default to assign the trip type breakdowns for all land uses in CalEEMod®.

3.3.3.2 Trip Rates

Trip rates are one of the parameters used to calculate Project mobile source emissions. CalEEMod® relies upon trip generation rates by land use types and associated average trip length by trip type to estimate the criteria air pollutant emissions. Project-specific trip rates provided by the Fehr & Peers Transportation Consultants were used as input for the CalEEMod® model run. These are presented in **Table 8**.

3.3.3.3 Trip Length

Trip lengths are another factor used to calculate Project mobile source emissions. Total VMT by mobile sources is estimated as a product of trip rates and the average trip length. The default CalEEMod® trip lengths for Los Angeles County located within SCAQMD jurisdiction were used.

3.3.3.4 Vehicle Fleet Mix

Vehicle fleet mix is another parameter used to estimate mobile source emissions from Project operation. Each vehicle type has a different emission factor for each pollutant, so CalEEMod® relies upon vehicle fleet mixes by land use type to estimate the criteria air pollutant emissions for each land use. The CalEEMod® default fleet mix for residential multi-family land use for the portion of Los Angeles County located within SCAQMD jurisdiction was used in this analysis.

3.3.3.5 Estimated Emissions from Mobile Sources

Operational emissions associated with operational mobile sources of the proposed Project are shown in CalEEMod® output file in **Appendix A** and summarized in **Table ES-2**. The mobile source emissions include trips related to residential multi-family housing as evaluated by CalEEMod®.

3.3.4 Stationary Sources

Stationary sources, such as generators, are direct sources of emissions. This analysis conservatively incorporates the stationary source emissions from the maintenance activity of a diesel-powered emergency generator for the proposed project. Stationary source emissions were estimated assuming CalEEMod equipment defaults for diesel-powered generators and a maximum maintenance schedule of 50 hours/yr per SCAQMD Rule 1470 requirements.

The resulting emissions from the stationary source for the project are shown in **Table ES-2**.

3.3.5 Operational Emissions Results

The regional daily emissions estimated due to Project operations are summarized in **Table ES-2**. These emissions were estimated using the methodology as described above. The estimated emissions include on-site emissions from stationary sources and off-site emissions from on-road sources. The primary source of the operational emissions is the traffic mobile sources. In order to reduce the emissions associated with mobile sources, the proposed Project has committed to installing seven (7) electric vehicle (EV) charging stations and TDM measures (e.g., unbundled parking, pre-leasing for area employees, transit information, on-site residential bicycle parking, and ride-sharing pickup and dropoff). This analysis is conservative as it does not account for reductions in CAP emissions associated with the use of the EV chargers.

For criteria air pollutants, the emissions for existing uses[14] are subtracted from the proposed Project mass emissions, to get the net mass emissions, which are then compared to the SCAQMD mass daily significance thresholds. As shown in **Table ES-2**, the maximum daily net emissions for the proposed Project's operational activities are less than the SCAQMD mass daily significance thresholds for all CAPs, i.e. VOC, NO_X, CO, SO_2, PM_{10}, and $PM_{2.5}$. Hence, air quality impacts of the maximum daily CAP emissions from Project operation would be less than significant.

[14] The existing uses is based on the land use as shown in Table 2 and default CalEEMod® assumptions for that land use.

4. COMPLIANCE WITH AMBIENT AIR STANDARDS

4.1 Localized Significance Thresholds

As discussed in Section 2, the LSTs are used to evaluate the construction emissions relative to the SCAQMD ambient air quality standard significance thresholds. The on-site construction emissions for NO_x, CO, PM_{10}, and $PM_{2.5}$ are compared to their respective thresholds provided in Appendix C of SCAQMD's LST Methodology. [15] The Source Receptor Area (SRA) applicable to the Project is SRA Number 3, Southwest Coastal Los Angeles County, based on Project location. As a conservative approach, the thresholds chosen are for a Project site area of one acre since there is no published threshold specifically for the Project site area of 1.33 acres. A receptor distance of 25 meters was chosen based on the lowest, and thus conservative, threshold for each pollutant for the "1-acre" LST. While the exact construction schedule and equipment mix may vary from the current analysis, the maximum daily emissions are not expected to be higher than that estimated given the conservative assumptions included in this analysis.

As shown in **Table ES-3**, the maximum daily on-site emissions for Project construction are less than the SCAQMD mass-rate Localized Significance Thresholds[16] for NO_x, CO, PM_{10}, and $PM_{2.5}$. Since the screening analysis shows that the construction emissions are below the mass-rate LSTs, the Project's contribution to the localized air concentrations of these pollutants would be less than significant and further air dispersion modeling is not required.

The construction emissions are based on conservative assumptions to represent the maximum level of construction activity that may occur on the Project site on a given day. Furthermore, the construction LST analysis is based on the combination of maximum emissions that may occur with the worst-case meteorological conditions. Thus, these are conservatively high estimates and may never occur.

4.2 Localized Carbon Monoxide Impacts

Based on the analysis presented below, a CO "hot spots" analysis is not needed to determine whether the change in the level of service (LOS) of an intersection in the Project would have the potential to result in exceedances of the California Ambient Air Quality Standards or National Ambient Air Quality Standards.

It has long been recognized that CO exceedances are caused by vehicular emissions,[17] primarily when idling at intersections.[18, 19] Accordingly, vehicle emissions standards have become increasingly more stringent. Before the first vehicle emission regulations, cars in the 1950s were typically emitting about 87 grams of CO per mile.[20] Since the first regulation of

[15] SCAQMD, 2008. Final Localized Significance Threshold Methodology. Appendix C. July. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf. Accessed: April 2020.

[16] SCAQMD, 2008. Final Localized Significance Threshold Methodology. Appendix C. July. Available at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2. Accessed: April 2020.

[17] USEPA. 2000. Air Quality Criteria for Carbon Monoxide. EPA 600/P-099/001F. June.

[18] SCAQMD. 1993. CEQA Air Quality Handbook. Section 4.5. April.

[19] SCAQMD. 2003. Air Quality Management Plan. August.

[20] USEPA. Available at: https://nepis.epa.gov/Exe/tiff2png.cgi/P10001KM.PNG?-r+75+-g+7+D%3A%5CZYFILES%5CINDEX%20DATA%5C91THRU94%5CTIFF%5C00001818%5CP10001KM.TIF. Accessed: April 2020.

CO emissions from vehicles (model year 1966) in California, vehicle emissions standards for CO applicable to light-duty vehicles have decreased by 96% for automobiles[21, 22] and new cold weather CO standards have been implemented, effective for the 1996 model year.[23] Currently, the CO standard in California is a maximum of 3.4 grams/mile for passenger cars (with provisions for certain cars to emit even less).[24] With the turnover of older vehicles, introduction of cleaner fuels and implementation of control technology on industrial facilities, CO concentrations in the SCAQMD have steadily declined.

The analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can be used to assist in evaluating the potential for CO exceedances in the South Coast Air Basin. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 Air Quality Management Plan (2003 AQMP) and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan).[25] As discussed in the 1992 CO Plan, peak carbon monoxide concentrations in the South Coast Air Basin are due to unusual meteorological and topographical conditions, and not due to the impact of particular intersections. Considering the region's unique meteorological conditions and the increasingly stringent CO emissions standards, CO modeling was performed as part of 1992 CO Plan and subsequent plan updates and air quality management plans.

In the 1992 CO Plan, a CO hot spot analysis was conducted for four busy intersections in Los Angeles at the peak morning and afternoon time periods. The intersections evaluated included: Long Beach Boulevard and Imperial Highway (Lynwood) Wilshire Boulevard and Veteran Avenue (Westwood); Sunset Boulevard and Highland Avenue (Hollywood); and La Cienega Boulevard and Century Boulevard (Inglewood). These analyses did not predict a violation of CO standards. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vehicles per day. The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm.[26] The most recent three years (2016 through 2018) of background 1-hour CO concentrations in the project vicinity range from 1.6 to 2.1 ppm.[27] This indicates that the most stringent 1-hour CO standard (20.0 ppm) would likely not be exceeded until the daily traffic at the intersection exceeded more than 400,000 vehicles per day.[28] The Los Angeles County Metropolitan Transportation Authority evaluated the LOS in the vicinity of the

[21] National Academy Board on Energy and Environmental Systems. 2008. Review of the 21st Century Truck Partnership. Appendix D: Vehicle Emission Regulations [excerpt from http://books.nap.edu/openbook.php?record_id=12258&page=107].

[22] Kavanagh, Jason. 2008. Untangling U.S. Vehicle Emissions Regulations.

[23] Title 13. California Code of Regulations. Section 1960.1(f)(2) [for 50,000-mile half-life].

[24] CARB, 2010. Available at: https://ww3.arb.ca.gov/msprog/levprog/cleandoc/cleancomplete%20lev-ghg%20regs%204-13.pdf. Accessed: April 2020.

[25] SCAQMD. 1992. Federal Attainment Plan for Carbon Monoxide.

[26] It is conservatively assumed that 4.6 ppm does not account for background CO concentration.

[27] SCAQMD Historical Data by Year for Source/Receptor Area 3. Available at: https://www.aqmd.gov/home/air-quality/air-quality-data-studies/historical-data-by-year. Accessed: April 2020.

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

Wilshire Boulevard/Veteran Avenue intersection[29] and found it to be Level E at peak morning traffic and Level F at peak afternoon traffic.[30]

Given that the new trips generated by the Project (~42 net trips per weekday, see **Table 8** for trip rate assumptions for Proposed Project and existing uses) is approximately 0.01% of the daily traffic volumes that would be expected to generate CO exceedances as evaluated in the 2003 AQMP, the average daily traffic volumes at the intersections impacted by the project for the 2023 plus Project scenario is not expected to result in an exceedance the 1-hour CO standard.

4.3 Odors

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source, the wind speeds and direction, and the sensitivity of the receiving location each contribute to the intensity of the impact. While offensive odors rarely cause any physical harm, they can be unpleasant and cause distress among the public and generate citizen complaints. According to the SCAQMD, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The construction and operation of the Project does not include any uses identified by the SCAQMD as being associated with odors, and thus the Project does not anticipate any odor impacts.

[29] The Metropolitan Transportation Authority measured traffic volumes and calculated the LOS for the intersection Wilshire Blvd/ Sepulveda Avenue, which is a block west along Wilshire Boulevard, still east of Highway 405.

[30] Metropolitan Transportation Authority. 2004. Congestion Management Program for Los Angeles County. Exhibit 2-6 and Appendix A. July 22.

5. SUMMARY OF RESULTS

Table ES-1 presents the maximum daily CAP emissions associated with Project construction. The proposed Project will comply with SCAQMD Rule 403 to minimize fugitive dust, and has committed to fugitive dust control by watering active construction areas three times a day, which is incorporated into this analysis. As shown in **Table ES-1**, emissions of all CAPs are less than SCAQMD's mass daily significance thresholds. Hence, the air quality impacts of maximum daily CAP emissions from Project construction would be less than significant.

Table ES-2 presents the maximum daily criteria air pollutant emissions associated with Project operation. The primary source of the operational CAP emissions (except VOC) is traffic-related mobile sources. In order to reduce the emissions associated with mobile sources, the proposed Project has committed to installing seven (7) electric vehicle (EV) charging stations and TDM measures (e.g., unbundled parking, pre-leasing for area employees, transit information, on-site residential bicycle parking, and ride-sharing pickup and dropoff). This analysis is conservative as it does not account for reductions in CAP emissions associated with the use of the EV chargers. As shown in **Table ES-2**, net emissions of all CAPs for the proposed Project as compared to the existing conditions are less than SCAQMD's mass daily significance thresholds. Hence, air quality impacts of the maximum daily CAP emissions from Project operation would be less than significant.

The localized air quality impacts of Project construction activities were evaluated using SCAQMD's LST methodology. As shown in **Table ES-3**, Project-related on-site construction emissions would not result in an exceedance of LSTs for nitrogen dioxide (NO_2), CO, PM_{10}, and $PM_{2.5}$ standards. Therefore, the Project's contribution to the localized air concentrations of these pollutants would be less than significant.

TABLES

Table ES-1. Maximum Daily Criteria Air Pollutant Emission Estimates for Project Construction
Gardena TOD Specific Plan
Gardena, California

Source Location	Source Type	Maximum Daily Criteria Air Pollutant Emissions[1,2] (lb/day)					
		VOC[3]	**NO_x**	**CO**	**SO_x**	**PM_{10}[4]**	**$PM_{2.5}$[4]**
Onsite		58	20	18	0.0	4.9	2.5
Offsite	Worker	0.2	0.0	10.3	0.0	0.0	0.0
	Vendor	0.0	0.0	0.9	0.0	0.0	0.0
	Hauling	0.0	20	0.0	0.1	0.6	0.4
Total[5]		**59**	**40**	**29**	**0.1**	**5.6**	**2.9**
SCAQMD Significance Threshold[6]		**75**	**100**	**550**	**150**	**150**	**55**
Above Threshold		NO	NO	NO	NO	NO	NO

Notes:

[1] Emissions shown here are based on Project-specific construction schedule and hauling material. CalEEMod ® defaults were used for on-site construction equipment mix and on-road vehicle trips. Emissions were estimated using CalEEMod ®. Refer to Appendix A for detailed CalEEMod® outputs. Analysis assumes on-site fugitive dust control [watering three times daily during construction].

[2] Numbers are rounded for reporting purposes.

[3] For purposes of this analysis the VOC emissions are assumed to be equal to ROG.

[4] PM emissions are estimated as a sum of exhaust, tire wear, brake wear, and fugitive dust emissions.

[5] The maximum emissions reported for each pollutant may occur on different days. The sum of the emissions may not add up due to rounding.

[6] SCAQMD Air Quality Significance Thresholds. Available at http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. Accessed: April 2020

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
CO - carbon monoxide
lb - pounds
NO_x - nitrogen oxides
PM - particulate matter
PM_{10} - particulate matter less than 10 microns in diameter
$PM_{2.5}$ - particulate matter less than 2.5 microns in diameter
ROG - reactive organic gases
SCAQMD - South Coast Air Quality Management District
SO_x - oxides of sulfur
VOC - volatile organic compounds

Table ES-2. Maximum Daily Net Criteria Air Pollutant Emission Estimates for Project Operation
Gardena TOD Specific Plan
Gardena, California

Emission Source	Maximum Daily Criteria Air Pollutant Emission Estimates[1] (lb/day)					
	VOC[2]	NO_x	CO	SO_x	PM_{10}[3]	$PM_{2.5}$[3]
Proposed Project[4]						
Area	6.4	0.3	21.9	0.0	0.1	0.1
Energy	0.1	0.8	0.3	0.0	0.1	0.1
Mobile	2.5	6.0	35.0	0.1	10	2.7
Stationary	3.8	10.7	9.8	0.0	0.6	0.6
Total	***13***	***18***	***67***	***0***	***11***	***3***
Existing Conditions[4]						
Area	0.5	0.0	0.0	0.0	0.0	0.0
Energy	0.0	0.0	0.0	0.0	0.0	0.0
Mobile	3.5	10.8	51.9	0.14	12	3.4
Total	***4***	***11***	***52***	***0***	***12***	***3***
Proposed Project Minus Existing Conditions						
Total Net Emissions	**9**	**7**	**15**	**0**	**-1**	**0**
SCAQMD Significance Thresholds[5]	**55**	**55**	**550**	**150**	**150**	**55**
Exceeds Threshold?	No	No	No	No	No	No

Notes:

[1] Numbers are rounded for reporting purposes. The sum of the emissions may not add up due to rounding.

[2] For purposes of this analysis VOC emissions are assumed to be equal to ROG.

[3] PM emissions for mobile sources are estimated as a sum of exhaust emissions, tire wear, brake wear, and entrained road dust.

[4] Emissions for proposed Project and existing conditions were estimated using CalEEMod®. Refer to Appendix A for CalEEMod® outputs.

[5] SCAQMD Air Quality Significance Thresholds. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf. Accessed: April 2020.

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
CAP - criteria air pollutant
CO - carbon monoxide
EMFAC - EMission FACtors model
lbs - pounds
NO_x - oxides of nitrogen
$PM_{2.5}$ - particulate matter less than 2.5 microns in diameter
PM_{10} - particulate matter less than 10 microns in diameter
ROG - reactive organic gases
SCAQMD - South Coast Air Quality Management District
SO_x - oxides of sulfur
VOC - volatile organic compounds

Table ES-3. Comparison of Project Construction Emissions to SCAQMD Localized Significance Thresholds
Gardena TOD Specific Plan
Gardena, California

Emission Type	Maximum Daily On-Site Construction Emissions (lb/day)			
	NO_x	**CO**	**PM_{10}**	**$PM_{2.5}$**
Onsite Construction Emissions[1]	20	18	4.9	2.5
SCAQMD Localized Significance Thresholds[2]	**104** **58[3]**	**764**	**6.0**	**3.7**
Exceeds Threshold?	No	No	No	No

Notes:

[1] Emissions estimated using CalEEMod®. Only on-site emissions are compared with the LSTs.

[2] LSTs based on Southwest Coastal Los Angeles County construction LSTs for a site at an interpolated 1.33-acre size between the given 1-acre and 2-acre thresholds for a 25-m receptor distance. Obtained from http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed: April 2020.

[3] An approximated LST was estimated to evaluate the federal 1-hour NO_2 standard, as the SCAQMD LST has not been updated to reflect this standard. This value was estimated by scaling the SCAQMD LST that represents the state 1-hour NO_2 standard with the ratio of the federal to state 1-hour NO_2 standard (0.10 ppm/0.18 ppm).

Abbreviations:

CalEEMod® - CALifornia Emissions Estimator MODel
CO - carbon monoxide
lb - pounds
LST - Localized Significance Threshold
NO_2 - nitrogen dioxide
NO_x - nitrogen oxides
PM_{10} - coarse particulate matter
$PM_{2.5}$ - fine particulate matter
SCAQMD - South Coast Air Quality Management District

Table 1. Project Land Uses
Gardena TOD Specific Plan
Gardena, California

Project Land Use	CalEEMod® Land Use Type	CalEEMod® Land Use Subtype[1]	Land Use Size	Land Use Size Metric
Multi-Family Housing	Residential	Mid-Rise Apartments	265	DU
Unenclosed Parking	Parking	Unenclosed Parking w/Elevator	275	spaces

Notes:
[1] Land uses as defined in CalEEMod®.

Abbreviations:
CalEEMod® - California Emissions Estimator Model
DU - dwelling unit

Table 2. Existing Land Uses
Gardena TOD Specific Plan
Gardena, California

Project Land Use	CalEEMod® Land Use Type	CalEEMod® Land Use Subtype[1]	Land Use Size	Land Use Size Metric
Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	24.00	1000 sqft

Notes:
[1] Land uses as defined in CalEEMod®.

Abbreviations:
CalEEMod® - California Emissions Estimator Model
sqft - square feet

Table 3. SCAQMD Air Quality Significance Criteria
Gardena TOD Specific Plan
Gardena, California

Mass Daily Thresholds (lbs/day)		
Pollutant	**Construction**	**Operation**
Reactive Organic Gases (ROG)	75	55
Oxides of Nitrogen (NO_x)	100	55
Carbon Monoxide (CO)	550	550
Oxides of Sulfur (SO_x)	150	150
Respirable Particulate Matter (PM_{10})	150	150
Fine Particulate Matter ($PM_{2.5}$) [2]	55	55
Odor Threshold		
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
Ambient Air Quality Standards for Criteria Pollutants		
NO_2 1-hour average Annual Arithmetic Mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.03 ppm (state) and 0.0534 ppm (federal)	
PM_{10} 24-hour Average Annual Average	10.4 µg/m^3 (construction); 2.5 µg/m^3 (operation) 1.0 µg/m^3	
$PM_{2.5}$ 24-hour Average	10.4 µg/m^3 (construction); 2.5 µg/m^3 (operation)	
CO 1-hour Average 8-hour Average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)	
Localized Significance Thresholds for Construction[2]		
NO_X	104 lb/day 58[3] lb/day	
PM_{10}	6 lb/day	
$PM_{2.5}$	3.7 lb/day	
CO	764 lb/day	

Notes:

[1] SCAQMD Air Quality Significance Thresholds. Available at http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf. Accessed: April 2020.

[2] LSTs based on Southwest Coastal Los Angeles County construction LSTs for a site at an interpolated 1.33-acre size between the given 1-acre and 2-acre thresholds for a 25-m receptor distance. Obtained from: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds. Accessed: April 2020.

[3] An approximated LST was estimated to evaluate the federal 1-hour NO_2 standard, as the SCAQMD LST has not been updated to reflect this standard. This value was estimated by scaling the SCAQMD LST that represents the state 1-hour NO_2 standard with the ratio of the federal to state 1-hour NO_2 standard (0.10 ppm/0.18 ppm).

Abbreviations:

µg/m^3 - micrograms per cubic meter
CO - carbon monoxide
lb - pound
NO_x - nitrogen oxide compounds (NO + NO_2)
PM_{10} - particulate matter less than 10 microns in diameter
$PM_{2.5}$ - particulate matter less than 2.5 microns in diameter
ppm - parts per million
ROG - reactive organic gases
SCAQMD - South Coast Air Quality Management District
SO_x - sulfur oxide compounds

Table 4. Construction Schedule
Gardena TOD Specific Plan
Gardena, California

Construction Phase Name[1]	CalEEMod® Phase Type[1]	Start Date[1]	End Date[1]	Phase Duration[2] (days)
Demolition[3]	Demolition	7/1/2021	8/16/2021	40
Site Preparation	Site Preparation	8/17/2021	8/22/2021	5
Grading	Grading	8/23/2021	9/2/2021	10
Building Construction	Building Construction	9/3/2021	7/25/2023	592
Architectural Coating	Architectural Coating	7/26/2023	8/28/2023	29
Paving	Paving	8/29/2023	9/29/2023	28

Notes:

[1] Construction phases and duration are based on Project-specific estimates.

[2] The construction work week was assumed to be 6 days per week.

[3] Demolition phase assumes demolition of the existing building (24,000 square feet) at the site.

Abbreviations:

CalEEMod® - California Emissions Estimator Model

Table 5. Construction Equipment Mix Assumptions
Gardena TOD Specific Plan
Gardena, California

Construction Phase Name	CalEEMod® Phase Type	Equipment Type	Equipment[1,2]	Hours per day[1]
Demolition	Demolition	Concrete/Industrial Saws	1	11.0
	Demolition	Rubber Tired Dozers	1	11.0
	Demolition	Tractors/Loaders/Backhoes	3	11.0
Site Preparation	Site Preparation	Graders	1	11.0
	Site Preparation	Rubber Tired Dozers	1	9.6
	Site Preparation	Tractors/Loaders/Backhoes	1	11.0
Grading	Grading	Graders	1	8.3
	Grading	Rubber Tired Dozers	1	8.3
	Grading	Tractors/Loaders/Backhoes	1	9.6
Building Construction	Building Construction	Cranes	1	8.3
	Building Construction	Forklifts	1	8.3
	Building Construction	Generator Sets	1	11.0
	Building Construction	Tractors/Loaders/Backhoes	1	8.3
	Building Construction	Welders	3	11.0
Architectural Coating	Architectural Coating	Air Compressors	1	8.3
Paving	Paving	Cement and Mortar Mixers	1	8.3
	Paving	Pavers	1	8.3
	Paving	Paving Equipment	1	11.0
	Paving	Rollers	1	9.6
	Paving	Tractors/Loaders/Backhoes	1	11.0

Notes:

[1] Equipment mix is based on CalEEMod® defaults for the project specific land use and construction schedule shown in Table 1 and Table 4, respectively. Equipment operational hours are based on project-specific information.

Abbreviations:

CalEEMod® - California Emissions Estimator Model

Table 6. Grading Volumes
Gardena TOD Specific Plan
Gardena, California

Phase Name	Material Imported[1] (yd^3)	Material Exported[1] (yd^3)
Grading	-	8,000

Notes:

[1] Soil export quantities based on project-specific data.

Abbreviations:

yd^3 - cubic yard

Table 7. Building Energy Use Assumptions
Gardena TOD Specific Plan
Gardena, California

Project Land Use Type	Land Use Size	Land Use Size Metric	Title 24 Electricity[1] kWh/DU or kWh/SF	Lighting Electricity[1] kWh/DU or kWh/SF	Title 24 Natural Gas[1] kBTU/DU or kBTU/SF
Multi-Family Housing	265	DU	160.53	662.11	5,852.35
Unenclosed Parking	275	spaces	0.00	1.56	0.00

Notes:
[1] A 10.7% reduction in CalEEMod® default values for 2016 Title 24 electricity and lighting electricity usage, and a 1.0% reduction in CalEEMod® defaults values for 2016 Title 24 natural gas consumption were applied to represent the 2019 Title 24 Standards for non-residential and high-rise residential land use categories. These reductions were estimated based on information provided in *California Energy Commission Impact Analysis: 2019 Update to the California Energy Efficiency Standards for Residential and Nonresidential Buildings,* dated June 2018. Available at: https://ww2.energy.ca.gov/title24/2019standards/post_adoption/. Accessed: April 2020.

Abbreviations:
CalEEMod® - California Emissions Estimator Model
DU - dwelling units
kBTU - 1000 British thermal unit
kWh - kilowatt-hour
SF - square foot

Table 8. Mobile Source Trip Assumptions
Gardena TOD Specific Plan
Gardena, California

Project Land Use Type	CalEEMod® Land Use Type	CalEEMod® Land Use Sub-Type	Land Use Size	Land Use Size Metric	Project Trip Rates (trips/size metric/day)		
					Weekday[1]	Saturday[2]	Sunday[2]
Proposed Project							
Multi-Family Housing	Residential	Mid-Rise Apartments	265	DU	5.17	4.97	4.55
Unenclosed Parking	Parking	Unenclosed Parking w/Elevator	275	spaces	0.00	0.00	0.00
Existing Conditions							
Warehouse	Industrial	Unrefrigerated Warehouse-No Rail	24	1000 sqft	55.34	55.34	55.34

Notes:

[1] Project-specific weekday trip rates were provided by *Fehr & Peers Transportation Consultants*.

[2] Weekend trip rates are estimated by multiplying the weekday daily trip rates by the ratio of the default CalEEMod® weekend to weekday daily trips.

Abbreviations:

CalEEMod® - California Emissions Estimator Model

DU - dwelling unit

sqft - square feet

APPENDIX A
CALEEMOD® OUTPUT FILES

List of CalEEMod Runs

APPENDIX A.1
GARDENA TOD SPECIFIC PLAN – EXISTING USES

Gardena Transit-Oriented Development Specific Plan - Existing Warehouse

Los Angeles-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	24.00	1000sqft	1.33	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE RPS.

Land Use - Site-specific land use.

Construction Phase - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Trips and VMT - Operation analyzed only.

Demolition -

Grading - Operation analyzed only.

Architectural Coating - Operation analyzed only.

Vehicle Trips - Trip rates derived from traffic study conducted by Fehr & Peers.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Woodstoves -

Energy Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	12,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	36,000.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	0.00
tblArchitecturalCoating	EF_Parking	100.00	0.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	0.00

tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	200.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	4.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	LDA	0.55	0.56
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.20	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.0900e-003	5.6144e-003
tblFleetMix	MCY	5.0050e-003	4.2116e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	9.0700e-004	8.8496e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.4380e-003	1.4270e-003
tblFleetMix	SBUS	6.7700e-004	5.6376e-004
tblFleetMix	UBUS	2.3590e-003	1.6853e-003
tblGrading	AcresOfGrading	0.00	1.50
tblGrading	AcresOfGrading	0.00	1.00
tblLandUse	LotAcreage	0.55	1.33
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblTripsAndVMT	VendorTripNumber	4.00	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	0.00
tblTripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleEF	HHD	0.68	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.10	5.4116e-007
tblVehicleEF	HHD	2.75	5.64
tblVehicleEF	HHD	1.17	0.78
tblVehicleEF	HHD	3.50	0.01
tblVehicleEF	HHD	4,770.40	1,146.78

tblVehicleEF	HHD	1,679.50	1,558.20
tblVehicleEF	HHD	10.80	0.11
tblVehicleEF	HHD	22.90	6.45
tblVehicleEF	HHD	4.59	4.62
tblVehicleEF	HHD	19.58	1.76
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	1.0700e-004	2.8198e-006
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8340e-003	8.8948e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	9.9000e-005	2.6136e-006
tblVehicleEF	HHD	1.2200e-004	1.0585e-005
tblVehicleEF	HHD	5.6590e-003	4.4543e-004
tblVehicleEF	HHD	0.69	0.46
tblVehicleEF	HHD	9.1000e-005	7.4025e-006
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	4.9400e-004	1.8985e-004
tblVehicleEF	HHD	0.10	2.8570e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6600e-004	1.1264e-006
tblVehicleEF	HHD	1.2200e-004	1.0585e-005
tblVehicleEF	HHD	5.6590e-003	4.4543e-004

tblVehicleEF	HHD	0.80	0.53
tblVehicleEF	HHD	9.1000e-005	7.4025e-006
tblVehicleEF	HHD	0.27	0.25
tblVehicleEF	HHD	4.9400e-004	1.8985e-004
tblVehicleEF	HHD	0.11	3.1281e-006
tblVehicleEF	HHD	0.64	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.09	5.1842e-007
tblVehicleEF	HHD	2.00	5.48
tblVehicleEF	HHD	1.17	0.78
tblVehicleEF	HHD	3.33	0.01
tblVehicleEF	HHD	5,051.17	1,147.74
tblVehicleEF	HHD	1,679.50	1,558.20
tblVehicleEF	HHD	10.80	0.11
tblVehicleEF	HHD	23.63	6.31
tblVehicleEF	HHD	4.34	4.37
tblVehicleEF	HHD	19.57	1.75
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	1.0700e-004	2.8198e-006
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8340e-003	8.8948e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	9.9000e-005	2.6136e-006

tblVehicleEF	HHD	1.8800e-004	1.6671e-005
tblVehicleEF	HHD	5.7950e-003	4.5234e-004
tblVehicleEF	HHD	0.65	0.48
tblVehicleEF	HHD	1.3300e-004	1.1389e-005
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	4.8300e-004	1.8770e-004
tblVehicleEF	HHD	0.10	2.7448e-006
tblVehicleEF	HHD	0.05	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6300e-004	1.1175e-006
tblVehicleEF	HHD	1.8800e-004	1.6671e-005
tblVehicleEF	HHD	5.7950e-003	4.5234e-004
tblVehicleEF	HHD	0.76	0.55
tblVehicleEF	HHD	1.3300e-004	1.1389e-005
tblVehicleEF	HHD	0.27	0.25
tblVehicleEF	HHD	4.8300e-004	1.8770e-004
tblVehicleEF	HHD	0.11	3.0052e-006
tblVehicleEF	HHD	0.73	0.03
tblVehicleEF	HHD	0.09	0.08
tblVehicleEF	HHD	0.10	5.4651e-007
tblVehicleEF	HHD	3.78	5.86
tblVehicleEF	HHD	1.16	0.78
tblVehicleEF	HHD	3.53	0.01
tblVehicleEF	HHD	4,382.68	1,145.44
tblVehicleEF	HHD	1,679.50	1,558.20
tblVehicleEF	HHD	10.80	0.11
tblVehicleEF	HHD	21.89	6.63

tblVehicleEF	HHD	4.51	4.54
tblVehicleEF	HHD	19.58	1.76
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	1.0700e-004	2.8198e-006
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8340e-003	8.8948e-003
tblVehicleEF	HHD	0.02	0.06
tblVehicleEF	HHD	9.9000e-005	2.6136e-006
tblVehicleEF	HHD	1.2200e-004	1.1183e-005
tblVehicleEF	HHD	6.2650e-003	5.2534e-004
tblVehicleEF	HHD	0.74	0.44
tblVehicleEF	HHD	8.8000e-005	7.4331e-006
tblVehicleEF	HHD	0.16	0.15
tblVehicleEF	HHD	5.3300e-004	2.0096e-004
tblVehicleEF	HHD	0.10	2.8828e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.02	0.01
tblVehicleEF	HHD	1.6700e-004	1.1281e-006
tblVehicleEF	HHD	1.2200e-004	1.1183e-005
tblVehicleEF	HHD	6.2650e-003	5.2534e-004
tblVehicleEF	HHD	0.86	0.51
tblVehicleEF	HHD	8.8000e-005	7.4331e-006
tblVehicleEF	HHD	0.27	0.25

tblVehicleEF	HHD	5.3300e-004	2.0096e-004
tblVehicleEF	HHD	0.11	3.1563e-006
tblVehicleEF	LDA	6.5530e-003	4.0136e-003
tblVehicleEF	LDA	7.1270e-003	0.06
tblVehicleEF	LDA	0.76	0.86
tblVehicleEF	LDA	1.42	2.23
tblVehicleEF	LDA	296.37	286.76
tblVehicleEF	LDA	61.25	56.46
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.09	0.21
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.2990e-003	2.0470e-003
tblVehicleEF	LDA	2.3500e-003	2.0733e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	2.1210e-003	1.8863e-003
tblVehicleEF	LDA	2.1610e-003	1.9065e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.10	0.27
tblVehicleEF	LDA	2.9700e-003	2.8369e-003
tblVehicleEF	LDA	6.3700e-004	5.5869e-004
tblVehicleEF	LDA	0.05	0.06

tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.04	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.11	0.30
tblVehicleEF	LDA	6.9520e-003	4.2787e-003
tblVehicleEF	LDA	6.3260e-003	0.05
tblVehicleEF	LDA	0.83	0.94
tblVehicleEF	LDA	1.21	1.90
tblVehicleEF	LDA	310.18	299.35
tblVehicleEF	LDA	61.25	55.84
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.08	0.19
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.2990e-003	2.0470e-003
tblVehicleEF	LDA	2.3500e-003	2.0733e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	2.1210e-003	1.8863e-003
tblVehicleEF	LDA	2.1610e-003	1.9065e-003
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.09	0.24

tblVehicleEF	LDA	3.1090e-003	2.9615e-003
tblVehicleEF	LDA	6.3300e-004	5.5255e-004
tblVehicleEF	LDA	0.07	0.10
tblVehicleEF	LDA	0.12	0.12
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDA	0.03	0.03
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.09	0.27
tblVehicleEF	LDA	6.4200e-003	3.9296e-003
tblVehicleEF	LDA	7.2950e-003	0.06
tblVehicleEF	LDA	0.73	0.83
tblVehicleEF	LDA	1.46	2.31
tblVehicleEF	LDA	291.32	282.10
tblVehicleEF	LDA	61.25	56.60
tblVehicleEF	LDA	0.06	0.05
tblVehicleEF	LDA	0.09	0.21
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.2990e-003	2.0470e-003
tblVehicleEF	LDA	2.3500e-003	2.0733e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	2.1210e-003	1.8863e-003
tblVehicleEF	LDA	2.1610e-003	1.9065e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.10	0.28
tblVehicleEF	LDA	2.9190e-003	2.7908e-003
tblVehicleEF	LDA	6.3800e-004	5.6011e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.13	0.13
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.11	0.31
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	2.02	1.84
tblVehicleEF	LDT1	3.43	2.45
tblVehicleEF	LDT1	360.63	336.32
tblVehicleEF	LDT1	73.09	67.01
tblVehicleEF	LDT1	0.19	0.16
tblVehicleEF	LDT1	0.20	0.30
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.9490e-003	3.2450e-003
tblVehicleEF	LDT1	3.7850e-003	3.0811e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.6370e-003	2.9867e-003
tblVehicleEF	LDT1	3.4820e-003	2.8333e-003

tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.30	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.19	0.10
tblVehicleEF	LDT1	0.24	0.44
tblVehicleEF	LDT1	3.6330e-003	3.3281e-003
tblVehicleEF	LDT1	7.9100e-004	6.6309e-004
tblVehicleEF	LDT1	0.15	0.15
tblVehicleEF	LDT1	0.30	0.24
tblVehicleEF	LDT1	0.12	0.13
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.19	0.10
tblVehicleEF	LDT1	0.26	0.48
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	2.18	1.99
tblVehicleEF	LDT1	2.91	2.08
tblVehicleEF	LDT1	376.30	349.17
tblVehicleEF	LDT1	73.09	66.26
tblVehicleEF	LDT1	0.17	0.14
tblVehicleEF	LDT1	0.18	0.28
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.9490e-003	3.2450e-003
tblVehicleEF	LDT1	3.7850e-003	3.0811e-003
tblVehicleEF	LDT1	0.02	0.02

tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.6370e-003	2.9867e-003
tblVehicleEF	LDT1	3.4820e-003	2.8333e-003
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.18	0.09
tblVehicleEF	LDT1	0.21	0.39
tblVehicleEF	LDT1	3.7920e-003	3.4553e-003
tblVehicleEF	LDT1	7.8200e-004	6.5566e-004
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.18	0.09
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.96	1.78
tblVehicleEF	LDT1	3.54	2.53
tblVehicleEF	LDT1	354.88	331.57
tblVehicleEF	LDT1	73.09	67.18
tblVehicleEF	LDT1	0.19	0.16
tblVehicleEF	LDT1	0.20	0.31
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003

tblVehicleEF	LDT1	3.9490e-003	3.2450e-003
tblVehicleEF	LDT1	3.7850e-003	3.0811e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.6370e-003	2.9867e-003
tblVehicleEF	LDT1	3.4820e-003	2.8333e-003
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	0.12
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.5750e-003	3.2810e-003
tblVehicleEF	LDT1	7.9300e-004	6.6480e-004
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.23	0.12
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	8.6320e-003	6.3277e-003
tblVehicleEF	LDT2	8.2970e-003	0.08
tblVehicleEF	LDT2	0.97	1.23
tblVehicleEF	LDT2	1.67	2.86
tblVehicleEF	LDT2	408.00	367.53
tblVehicleEF	LDT2	83.22	73.71
tblVehicleEF	LDT2	0.10	0.11

tblVehicleEF	LDT2	0.14	0.35
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1760e-003	2.1380e-003
tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LDT2	4.0880e-003	3.6361e-003
tblVehicleEF	LDT2	8.6100e-004	7.2940e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.12	0.41
tblVehicleEF	LDT2	9.1430e-003	6.7251e-003
tblVehicleEF	LDT2	7.3790e-003	0.07
tblVehicleEF	LDT2	1.07	1.35
tblVehicleEF	LDT2	1.43	2.44

tblVehicleEF	LDT2	426.32	380.44
tblVehicleEF	LDT2	83.22	72.90
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.13	0.32
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1760e-003	2.1380e-003
tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.08	0.12
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	4.2730e-003	3.7639e-003
tblVehicleEF	LDT2	8.5600e-004	7.2140e-004
tblVehicleEF	LDT2	0.08	0.12
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	8.4620e-003	6.2016e-003

tblVehicleEF	LDT2	8.4930e-003	0.08
tblVehicleEF	LDT2	0.94	1.19
tblVehicleEF	LDT2	1.73	2.96
tblVehicleEF	LDT2	401.27	362.75
tblVehicleEF	LDT2	83.22	73.90
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.15	0.35
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1760e-003	2.1380e-003
tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.11	0.39
tblVehicleEF	LDT2	4.0210e-003	3.5889e-003
tblVehicleEF	LDT2	8.6200e-004	7.3126e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.13	0.42
tblVehicleEF	LHD1	6.3570e-003	6.1107e-003
tblVehicleEF	LHD1	0.02	7.2756e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.07	0.85
tblVehicleEF	LHD1	3.29	1.27
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.35
tblVehicleEF	LHD1	35.85	13.43
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.15	0.81
tblVehicleEF	LHD1	1.13	0.38
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
tblVehicleEF	LHD1	9.6360e-003	6.9407e-003
tblVehicleEF	LHD1	1.1970e-003	3.3361e-004
tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	3.4680e-003	2.9778e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	2.0560e-003	1.7697e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.33	0.23
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1270e-003	6.8007e-003
tblVehicleEF	LHD1	4.2000e-004	1.3292e-004
tblVehicleEF	LHD1	3.4680e-003	2.9778e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0560e-003	1.7697e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.23
tblVehicleEF	LHD1	0.35	0.11
tblVehicleEF	LHD1	6.3570e-003	6.1237e-003
tblVehicleEF	LHD1	0.02	7.4194e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.08	0.87
tblVehicleEF	LHD1	3.14	1.22
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.38
tblVehicleEF	LHD1	35.85	13.33
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.07	0.76
tblVehicleEF	LHD1	1.08	0.36
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
tblVehicleEF	LHD1	9.6360e-003	6.9407e-003
tblVehicleEF	LHD1	1.1970e-003	3.3361e-004
tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	5.2080e-003	4.3916e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9180e-003	2.4685e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.22
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1280e-003	6.8010e-003
tblVehicleEF	LHD1	4.1700e-004	1.3191e-004
tblVehicleEF	LHD1	5.2080e-003	4.3916e-003
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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9180e-003	2.4685e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.22
tblVehicleEF	LHD1	0.34	0.10
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tblVehicleEF	LHD1	0.02	7.2362e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.06	0.85
tblVehicleEF	LHD1	3.32	1.28
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.34
tblVehicleEF	LHD1	35.85	13.45
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.13	0.80
tblVehicleEF	LHD1	1.14	0.38
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
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tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	3.6860e-003	3.1700e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0330e-003	1.7530e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.35	0.25

tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1270e-003	6.8007e-003
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tblVehicleEF	LHD1	3.6860e-003	3.1700e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0330e-003	1.7530e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.25
tblVehicleEF	LHD1	0.36	0.11
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tblVehicleEF	LHD2	5.8620e-003	5.0498e-003
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tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.45	0.57
tblVehicleEF	LHD2	1.67	0.89
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.02
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tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.88	1.08
tblVehicleEF	LHD2	0.66	0.27
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01

tblVehicleEF	LHD2	5.5800e-004	1.9149e-004
tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
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tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7607e-004
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tblVehicleEF	LHD2	0.11	0.15
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tblVehicleEF	LHD2	1.3300e-004	1.2893e-004
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tblVehicleEF	LHD2	3.3100e-004	1.0499e-004
tblVehicleEF	LHD2	1.4140e-003	1.9035e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.8000e-004	1.1332e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.11	0.15
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tblVehicleEF	LHD2	5.9540e-003	5.1158e-003
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tblVehicleEF	LHD2	0.14	0.16

tblVehicleEF	LHD2	0.46	0.58
tblVehicleEF	LHD2	1.60	0.85
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.03
tblVehicleEF	LHD2	30.01	10.54
tblVehicleEF	LHD2	0.10	0.09
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tblVehicleEF	LHD2	0.63	0.26
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
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tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	1.5798e-003
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tblVehicleEF	LHD2	0.10	0.15
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tblVehicleEF	LHD2	1.3300e-004	1.2893e-004
tblVehicleEF	LHD2	6.1920e-003	6.7672e-003

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tblVehicleEF	LHD2	1.2380e-003	1.5798e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.15
tblVehicleEF	LHD2	0.16	0.07
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tblVehicleEF	LHD2	5.8380e-003	5.0320e-003
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tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.45	0.57
tblVehicleEF	LHD2	1.68	0.90
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.01
tblVehicleEF	LHD2	30.01	10.62
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tblVehicleEF	LHD2	0.87	1.06
tblVehicleEF	LHD2	0.67	0.27
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01
tblVehicleEF	LHD2	5.5800e-004	1.9149e-004
tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
tblVehicleEF	LHD2	0.04	0.04

tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7607e-004
tblVehicleEF	LHD2	1.4720e-003	2.0038e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	1.1074e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.12	0.16
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2893e-004
tblVehicleEF	LHD2	6.1910e-003	6.7671e-003
tblVehicleEF	LHD2	3.3100e-004	1.0512e-004
tblVehicleEF	LHD2	1.4720e-003	2.0038e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.5900e-004	1.1074e-003
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tblVehicleEF	LHD2	0.17	0.08
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tblVehicleEF	MCY	0.15	0.24
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tblVehicleEF	MCY	9.63	8.47
tblVehicleEF	MCY	187.52	223.45
tblVehicleEF	MCY	45.30	60.30
tblVehicleEF	MCY	1.13	1.13

tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
tblVehicleEF	MCY	4.0640e-003	3.4455e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
tblVehicleEF	MCY	3.8350e-003	3.2508e-003
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	0.66	0.68
tblVehicleEF	MCY	2.62	2.65
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.08	1.84
tblVehicleEF	MCY	2.2730e-003	2.2113e-003
tblVehicleEF	MCY	6.7100e-004	5.9675e-004
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	0.66	0.68
tblVehicleEF	MCY	3.25	3.27
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.26	2.00
tblVehicleEF	MCY	0.52	0.38
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.74	18.94
tblVehicleEF	MCY	8.81	7.73

tblVehicleEF	MCY	187.52	221.94
tblVehicleEF	MCY	45.30	58.43
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
tblVehicleEF	MCY	4.0640e-003	3.4455e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
tblVehicleEF	MCY	3.8350e-003	3.2508e-003
tblVehicleEF	MCY	1.74	1.75
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	2.56	2.58
tblVehicleEF	MCY	0.60	0.57
tblVehicleEF	MCY	1.85	1.63
tblVehicleEF	MCY	2.2590e-003	2.1963e-003
tblVehicleEF	MCY	6.5100e-004	5.7823e-004
tblVehicleEF	MCY	1.74	1.75
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	3.17	3.18
tblVehicleEF	MCY	0.60	0.57
tblVehicleEF	MCY	2.01	1.77
tblVehicleEF	MCY	0.53	0.39

tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.59	19.90
tblVehicleEF	MCY	9.76	8.61
tblVehicleEF	MCY	187.52	223.76
tblVehicleEF	MCY	45.30	60.68
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
tblVehicleEF	MCY	4.0640e-003	3.4455e-003
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tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
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tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.86	0.89
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	2.64	2.66
tblVehicleEF	MCY	0.73	0.69
tblVehicleEF	MCY	2.12	1.88
tblVehicleEF	MCY	2.2750e-003	2.2143e-003
tblVehicleEF	MCY	6.7500e-004	6.0045e-004
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.86	0.89
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	3.26	3.29

tblVehicleEF	MCY	0.73	0.69
tblVehicleEF	MCY	2.31	2.05
tblVehicleEF	MDV	0.02	9.2304e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.77	1.63
tblVehicleEF	MDV	3.11	3.48
tblVehicleEF	MDV	543.27	449.17
tblVehicleEF	MDV	109.34	89.67
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.29	0.42
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MDV	5.4490e-003	4.4414e-003
tblVehicleEF	MDV	1.1480e-003	8.8732e-004
tblVehicleEF	MDV	0.07	0.09

tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.27	0.54
tblVehicleEF	MDV	0.02	9.6792e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.90	1.75
tblVehicleEF	MDV	2.66	2.97
tblVehicleEF	MDV	567.14	462.77
tblVehicleEF	MDV	109.34	88.67
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.26	0.39
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.22	0.44

tblVehicleEF	MDV	5.6890e-003	4.5760e-003
tblVehicleEF	MDV	1.1400e-003	8.7748e-004
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.02	9.0788e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.72	1.59
tblVehicleEF	MDV	3.20	3.60
tblVehicleEF	MDV	534.52	444.14
tblVehicleEF	MDV	109.34	89.90
tblVehicleEF	MDV	0.19	0.15
tblVehicleEF	MDV	0.29	0.43
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.07	0.09

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	0.25	0.50
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tblVehicleEF	MDV	1.1500e-003	8.8960e-004
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tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	0.28	0.55
tblVehicleEF	MH	0.04	0.01
tblVehicleEF	MH	0.03	0.03
tblVehicleEF	MH	3.53	1.92
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tblVehicleEF	MH	1.26	1.22
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.1950e-003	3.2285e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.4630e-003	3.2517e-004

tblVehicleEF	MH	1.18	1.05
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.49	0.43
tblVehicleEF	MH	0.13	0.08
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.43	0.11
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	1.18	1.05
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.49	0.43
tblVehicleEF	MH	0.18	0.11
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.47	0.12
tblVehicleEF	MH	0.04	0.01
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	3.59	1.96
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tblVehicleEF	MH	1,138.98	1,557.83
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
tblVehicleEF	MH	0.06	0.06

tblVehicleEF	MH	3.1950e-003	3.2285e-003
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tblVehicleEF	MH	1.4630e-003	3.2517e-004
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tblVehicleEF	MH	0.41	0.11
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	0.08	0.07
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tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
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tblVehicleEF	MH	3.1950e-003	3.2285e-003
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tblVehicleEF	MH	1.4630e-003	3.2517e-004
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tblVehicleEF	MH	0.02	0.02
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tblVehicleEF	MH	0.02	0.02
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tblVehicleEF	MHD	0.46	0.07
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tblVehicleEF	MHD	7.8800e-004	1.2725e-004
tblVehicleEF	MHD	1.3410e-003	8.0902e-004
tblVehicleEF	MHD	0.05	0.03

tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.3700e-004	4.9874e-004
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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	0.50	0.08
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.07
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4245e-004

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tblVehicleEF	MHD	0.61	0.87
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.07
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	MHD	8.6100e-004	1.4245e-004
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tblVehicleEF	SBUS	1,153.25	357.24
tblVehicleEF	SBUS	1,098.50	1,142.91
tblVehicleEF	SBUS	52.01	5.22
tblVehicleEF	SBUS	10.62	3.36
tblVehicleEF	SBUS	4.93	5.23
tblVehicleEF	SBUS	12.73	0.80
tblVehicleEF	SBUS	0.01	4.8914e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	7.4700e-004	4.5351e-005
tblVehicleEF	SBUS	0.01	4.6798e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
tblVehicleEF	SBUS	3.4480e-003	9.3291e-004
tblVehicleEF	SBUS	0.03	7.9894e-003
tblVehicleEF	SBUS	0.96	0.31
tblVehicleEF	SBUS	1.6800e-003	4.7378e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3776e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5300e-004	5.1647e-005
tblVehicleEF	SBUS	3.4480e-003	9.3291e-004
tblVehicleEF	SBUS	0.03	7.9894e-003
tblVehicleEF	SBUS	1.38	0.44
tblVehicleEF	SBUS	1.6800e-003	4.7378e-004
tblVehicleEF	SBUS	0.14	0.12
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.88	0.07
tblVehicleEF	SBUS	0.01	8.0602e-003
tblVehicleEF	SBUS	0.06	5.4885e-003
tblVehicleEF	SBUS	7.76	2.63

tblVehicleEF	SBUS	0.86	0.68
tblVehicleEF	SBUS	6.22	0.70
tblVehicleEF	SBUS	1,206.53	366.05
tblVehicleEF	SBUS	1,098.50	1,142.92
tblVehicleEF	SBUS	52.01	4.95
tblVehicleEF	SBUS	10.96	3.44
tblVehicleEF	SBUS	4.65	4.93
tblVehicleEF	SBUS	12.69	0.79
tblVehicleEF	SBUS	0.01	4.1305e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	4.5351e-005
tblVehicleEF	SBUS	9.8410e-003	3.9518e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
tblVehicleEF	SBUS	5.0870e-003	1.3452e-003
tblVehicleEF	SBUS	0.03	8.1038e-003
tblVehicleEF	SBUS	0.95	0.31
tblVehicleEF	SBUS	2.4200e-003	6.5907e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.36	0.03
tblVehicleEF	SBUS	0.01	3.4613e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.2900e-004	4.9030e-005
tblVehicleEF	SBUS	5.0870e-003	1.3452e-003
tblVehicleEF	SBUS	0.03	8.1038e-003
tblVehicleEF	SBUS	1.37	0.44
tblVehicleEF	SBUS	2.4200e-003	6.5907e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.39	0.03
tblVehicleEF	SBUS	0.88	0.07
tblVehicleEF	SBUS	0.01	7.9428e-003
tblVehicleEF	SBUS	0.07	6.3035e-003
tblVehicleEF	SBUS	8.07	2.73
tblVehicleEF	SBUS	0.84	0.67
tblVehicleEF	SBUS	7.93	0.89
tblVehicleEF	SBUS	1,079.68	345.07
tblVehicleEF	SBUS	1,098.50	1,142.90
tblVehicleEF	SBUS	52.01	5.27
tblVehicleEF	SBUS	10.15	3.25
tblVehicleEF	SBUS	4.85	5.14
tblVehicleEF	SBUS	12.73	0.80
tblVehicleEF	SBUS	0.01	5.9422e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	4.5351e-005
tblVehicleEF	SBUS	0.01	5.6851e-003
tblVehicleEF	SBUS	0.32	0.32

tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
tblVehicleEF	SBUS	3.6280e-003	9.6962e-004
tblVehicleEF	SBUS	0.03	8.6170e-003
tblVehicleEF	SBUS	0.96	0.31
tblVehicleEF	SBUS	1.6230e-003	4.5940e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2620e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5700e-004	5.2148e-005
tblVehicleEF	SBUS	3.6280e-003	9.6962e-004
tblVehicleEF	SBUS	0.03	8.6170e-003
tblVehicleEF	SBUS	1.38	0.44
tblVehicleEF	SBUS	1.6230e-003	4.5940e-004
tblVehicleEF	SBUS	0.14	0.12
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.95	6.22
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	12.36	42.74
tblVehicleEF	UBUS	8.85	0.71
tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.74
tblVehicleEF	UBUS	11.49	1.21

tblVehicleEF	UBUS	15.98	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	4.1600e-003	5.6506e-004
tblVehicleEF	UBUS	0.07	7.6310e-003
tblVehicleEF	UBUS	2.3210e-003	4.4997e-004
tblVehicleEF	UBUS	0.96	0.16
tblVehicleEF	UBUS	0.02	1.8353e-003
tblVehicleEF	UBUS	0.66	0.05
tblVehicleEF	UBUS	0.01	1.4781e-003
tblVehicleEF	UBUS	1.0390e-003	8.6510e-005
tblVehicleEF	UBUS	4.1600e-003	5.6506e-004
tblVehicleEF	UBUS	0.07	7.6310e-003
tblVehicleEF	UBUS	2.3210e-003	4.4997e-004
tblVehicleEF	UBUS	4.03	6.42
tblVehicleEF	UBUS	0.02	1.8353e-003
tblVehicleEF	UBUS	0.72	0.05
tblVehicleEF	UBUS	2.95	6.22
tblVehicleEF	UBUS	0.04	0.01
tblVehicleEF	UBUS	12.41	42.74
tblVehicleEF	UBUS	7.66	0.63

tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.60
tblVehicleEF	UBUS	10.84	1.20
tblVehicleEF	UBUS	15.93	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	5.9230e-003	8.1967e-004
tblVehicleEF	UBUS	0.07	7.8713e-003
tblVehicleEF	UBUS	3.1960e-003	6.2061e-004
tblVehicleEF	UBUS	0.97	0.16
tblVehicleEF	UBUS	0.02	1.6667e-003
tblVehicleEF	UBUS	0.60	0.04
tblVehicleEF	UBUS	0.01	1.4781e-003
tblVehicleEF	UBUS	1.0190e-003	8.5055e-005
tblVehicleEF	UBUS	5.9230e-003	8.1967e-004
tblVehicleEF	UBUS	0.07	7.8713e-003
tblVehicleEF	UBUS	3.1960e-003	6.2061e-004
tblVehicleEF	UBUS	4.04	6.42
tblVehicleEF	UBUS	0.02	1.6667e-003
tblVehicleEF	UBUS	0.66	0.05
tblVehicleEF	UBUS	2.95	6.22

tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	12.34	42.74
tblVehicleEF	UBUS	9.07	0.73
tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.77
tblVehicleEF	UBUS	11.27	1.20
tblVehicleEF	UBUS	15.99	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	4.7740e-003	5.5338e-004
tblVehicleEF	UBUS	0.09	8.1480e-003
tblVehicleEF	UBUS	2.4590e-003	4.2794e-004
tblVehicleEF	UBUS	0.96	0.16
tblVehicleEF	UBUS	0.03	2.2296e-003
tblVehicleEF	UBUS	0.67	0.05
tblVehicleEF	UBUS	0.01	1.4781e-003
tblVehicleEF	UBUS	1.0430e-003	8.6803e-005
tblVehicleEF	UBUS	4.7740e-003	5.5338e-004
tblVehicleEF	UBUS	0.09	8.1480e-003
tblVehicleEF	UBUS	2.4590e-003	4.2794e-004
tblVehicleEF	UBUS	4.02	6.42

tblVehicleEF	UBUS	0.03	2.2296e-003
tblVehicleEF	UBUS	0.74	0.05
tblVehicleTrips	ST_TR	1.68	55.34
tblVehicleTrips	SU_TR	1.68	55.34
tblVehicleTrips	WD_TR	1.68	55.34

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					
2019	0.0000	0.0000	0.0000	0.0000	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					
2019	0.0000	0.0000	0.0000	0.0000	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	0.5364	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Energy	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
Mobile	3.4895	10.1464	51.8614	0.1360	12.0440	0.1821	12.2261	3.2145	0.1715	3.3860		13,986.7749	13,986.7749	0.8612		14,008.3058
Total	**4.0287**	**10.1718**	**51.8851**	**0.1361**	**12.0440**	**0.1840**	**12.2280**	**3.2145**	**0.1734**	**3.3879**		**14,017.1814**	**14,017.1814**	**0.8618**	**5.6000e-004**	**14,038.8934**

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	0.5364	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Energy	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
Mobile	3.4895	10.1464	51.8614	0.1360	12.0440	0.1821	12.2261	3.2145	0.1715	3.3860		13,986.7749	13,986.7749	0.8612		14,008.3058
Total	**4.0287**	**10.1718**	**51.8851**	**0.1361**	**12.0440**	**0.1840**	**12.2280**	**3.2145**	**0.1734**	**3.3879**		**14,017.1814**	**14,017.1814**	**0.8618**	**5.6000e-004**	**14,038.8934**

	ROG	NOx	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	1/1/2019	12/31/2018	5	0	
2	Site Preparation	Site Preparation	1/29/2019	1/28/2019	5	0	
3	Grading	Grading	1/31/2019	1/30/2019	5	0	
4	Building Construction	Building Construction	2/6/2019	2/5/2019	5	0	
5	Paving	Paving	11/13/2019	11/12/2019	5	0	
6	Architectural Coating	Architectural Coating	11/27/2019	11/26/2019	5	0	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

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	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	6.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2019

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

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

Mitigated Construction On-Site

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

3.3 Site Preparation - 2019

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

3.4 Grading - 2019

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2019

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

Mitigated Construction On-Site

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

3.4 Grading - 2019

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

3.5 Building Construction - 2019

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

3.5 Building Construction - 2019

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

Mitigated Construction On-Site

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

3.5 Building Construction - 2019

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

3.6 Paving - 2019

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	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2019

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2019

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

3.7 Architectural Coating - 2019

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2019

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

Mitigated Construction On-Site

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

3.7 Architectural Coating - 2019

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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	3.4895	10.1464	51.8614	0.1360	12.0440	0.1821	12.2261	3.2145	0.1715	3.3860		13,986.7749	13,986.7749	0.8612		14,008.3058
Unmitigated	3.4895	10.1464	51.8614	0.1360	12.0440	0.1821	12.2261	3.2145	0.1715	3.3860		13,986.7749	13,986.7749	0.8612		14,008.3058

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,328.16	1,328.16	1328.16	5,692,118	5,692,118
Total	1,328.16	1,328.16	1,328.16	5,692,118	5,692,118

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
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.557490	0.059078	0.186496	0.118813	0.022821	0.005614	0.016986	0.023928	0.001427	0.001685	0.004212	0.000564	0.000885

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	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
NaturalGas Unmitigated	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820

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					
Unrefrigerated Warehouse-No Rail	258.411	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
Total		**2.7900e-003**	**0.0253**	**0.0213**	**1.5000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**		**30.4013**	**30.4013**	**5.8000e-004**	**5.6000e-004**	**30.5820**

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					
Unrefrigerated Warehouse-No Rail	0.258411	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
Total		**2.7900e-003**	**0.0253**	**0.0213**	**1.5000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**		**30.4013**	**30.4013**	**5.8000e-004**	**5.6000e-004**	**30.5820**

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	0.5364	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Unmitigated	0.5364	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Total	**0.5364**	**2.0000e-005**	**2.4700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.6000e-003**

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	0.0610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Total	**0.5364**	**2.0000e-005**	**2.4700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.6000e-003**

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

Gardena Transit-Oriented Development Specific Plan - Existing Warehouse

Los Angeles-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	24.00	1000sqft	1.33	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2020
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2019 SCE RPS.

Land Use - Site-specific land use.

Construction Phase - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Off-road Equipment - Operation analyzed only.

Trips and VMT - Operation analyzed only.

Demolition -

Grading - Operation analyzed only.

Architectural Coating - Operation analyzed only.

Vehicle Trips - Trip rates derived from traffic study conducted by Fehr & Peers.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Woodstoves -

Energy Use -

Table Name	Column Name	Default Value	New Value
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tblArchitecturalCoating	EF_Residential_Exterior	50.00	0.00

tblArchitecturalCoating	EF_Residential_Interior	50.00	0.00
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tblFleetMix	LDT2	0.20	0.19
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tblFleetMix	LHD2	6.0900e-003	5.6144e-003
tblFleetMix	MCY	5.0050e-003	4.2116e-003
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tblFleetMix	MH	9.0700e-004	8.8496e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.4380e-003	1.4270e-003
tblFleetMix	SBUS	6.7700e-004	5.6376e-004
tblFleetMix	UBUS	2.3590e-003	1.6853e-003
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tblGrading	AcresOfGrading	0.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblVehicleEF	LDT1	0.05	0.05
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tblVehicleEF	LDT1	3.7850e-003	3.0811e-003
tblVehicleEF	LDT1	0.02	0.02

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tblVehicleEF	LDT1	3.7920e-003	3.4553e-003
tblVehicleEF	LDT1	7.8200e-004	6.5566e-004
tblVehicleEF	LDT1	0.23	0.24
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.18	0.09
tblVehicleEF	LDT1	0.23	0.43
tblVehicleEF	LDT1	0.02	0.01
tblVehicleEF	LDT1	0.02	0.09
tblVehicleEF	LDT1	1.96	1.78
tblVehicleEF	LDT1	3.54	2.53
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tblVehicleEF	LDT1	73.09	67.18
tblVehicleEF	LDT1	0.19	0.16
tblVehicleEF	LDT1	0.20	0.31
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003

tblVehicleEF	LDT1	3.9490e-003	3.2450e-003
tblVehicleEF	LDT1	3.7850e-003	3.0811e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.6370e-003	2.9867e-003
tblVehicleEF	LDT1	3.4820e-003	2.8333e-003
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.23	0.12
tblVehicleEF	LDT1	0.25	0.45
tblVehicleEF	LDT1	3.5750e-003	3.2810e-003
tblVehicleEF	LDT1	7.9300e-004	6.6480e-004
tblVehicleEF	LDT1	0.15	0.16
tblVehicleEF	LDT1	0.35	0.27
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.07	0.07
tblVehicleEF	LDT1	0.23	0.12
tblVehicleEF	LDT1	0.27	0.50
tblVehicleEF	LDT2	8.6320e-003	6.3277e-003
tblVehicleEF	LDT2	8.2970e-003	0.08
tblVehicleEF	LDT2	0.97	1.23
tblVehicleEF	LDT2	1.67	2.86
tblVehicleEF	LDT2	408.00	367.53
tblVehicleEF	LDT2	83.22	73.71
tblVehicleEF	LDT2	0.10	0.11

tblVehicleEF	LDT2	0.14	0.35
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1760e-003	2.1380e-003
tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LDT2	4.0880e-003	3.6361e-003
tblVehicleEF	LDT2	8.6100e-004	7.2940e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
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tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.07	0.05
tblVehicleEF	LDT2	0.12	0.41
tblVehicleEF	LDT2	9.1430e-003	6.7251e-003
tblVehicleEF	LDT2	7.3790e-003	0.07
tblVehicleEF	LDT2	1.07	1.35
tblVehicleEF	LDT2	1.43	2.44

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tblVehicleEF	LDT2	0.13	0.32
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
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tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.08	0.12
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	4.2730e-003	3.7639e-003
tblVehicleEF	LDT2	8.5600e-004	7.2140e-004
tblVehicleEF	LDT2	0.08	0.12
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.03	0.04
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.11	0.37
tblVehicleEF	LDT2	8.4620e-003	6.2016e-003

tblVehicleEF	LDT2	8.4930e-003	0.08
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tblVehicleEF	LDT2	1.73	2.96
tblVehicleEF	LDT2	401.27	362.75
tblVehicleEF	LDT2	83.22	73.90
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.15	0.35
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1760e-003	2.1380e-003
tblVehicleEF	LDT2	2.3520e-003	2.0991e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	2.0020e-003	1.9677e-003
tblVehicleEF	LDT2	2.1630e-003	1.9301e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.11	0.39
tblVehicleEF	LDT2	4.0210e-003	3.5889e-003
tblVehicleEF	LDT2	8.6200e-004	7.3126e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.13	0.15
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.03	0.04

tblVehicleEF	LDT2	0.08	0.06
tblVehicleEF	LDT2	0.13	0.42
tblVehicleEF	LHD1	6.3570e-003	6.1107e-003
tblVehicleEF	LHD1	0.02	7.2756e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.07	0.85
tblVehicleEF	LHD1	3.29	1.27
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.35
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tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.15	0.81
tblVehicleEF	LHD1	1.13	0.38
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
tblVehicleEF	LHD1	9.6360e-003	6.9407e-003
tblVehicleEF	LHD1	1.1970e-003	3.3361e-004
tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	3.4680e-003	2.9778e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02

tblVehicleEF	LHD1	2.0560e-003	1.7697e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.33	0.23
tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1270e-003	6.8007e-003
tblVehicleEF	LHD1	4.2000e-004	1.3292e-004
tblVehicleEF	LHD1	3.4680e-003	2.9778e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0560e-003	1.7697e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.33	0.23
tblVehicleEF	LHD1	0.35	0.11
tblVehicleEF	LHD1	6.3570e-003	6.1237e-003
tblVehicleEF	LHD1	0.02	7.4194e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.08	0.87
tblVehicleEF	LHD1	3.14	1.22
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.38
tblVehicleEF	LHD1	35.85	13.33
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.07	0.76
tblVehicleEF	LHD1	1.08	0.36
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004

tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
tblVehicleEF	LHD1	9.6360e-003	6.9407e-003
tblVehicleEF	LHD1	1.1970e-003	3.3361e-004
tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	5.2080e-003	4.3916e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.9180e-003	2.4685e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.32	0.22
tblVehicleEF	LHD1	0.31	0.09
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1280e-003	6.8010e-003
tblVehicleEF	LHD1	4.1700e-004	1.3191e-004
tblVehicleEF	LHD1	5.2080e-003	4.3916e-003
tblVehicleEF	LHD1	0.12	0.10
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.9180e-003	2.4685e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.32	0.22
tblVehicleEF	LHD1	0.34	0.10
tblVehicleEF	LHD1	6.3570e-003	6.1081e-003

tblVehicleEF	LHD1	0.02	7.2362e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.16	0.20
tblVehicleEF	LHD1	1.06	0.85
tblVehicleEF	LHD1	3.32	1.28
tblVehicleEF	LHD1	8.89	8.96
tblVehicleEF	LHD1	622.45	695.34
tblVehicleEF	LHD1	35.85	13.45
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	1.13	0.80
tblVehicleEF	LHD1	1.14	0.38
tblVehicleEF	LHD1	7.9800e-004	6.7527e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.8890e-003	9.5182e-003
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tblVehicleEF	LHD1	1.1970e-003	3.3361e-004
tblVehicleEF	LHD1	7.6300e-004	6.4606e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.4720e-003	2.3796e-003
tblVehicleEF	LHD1	9.1880e-003	6.6075e-003
tblVehicleEF	LHD1	1.1020e-003	3.0717e-004
tblVehicleEF	LHD1	3.6860e-003	3.1700e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.0330e-003	1.7530e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.35	0.25

tblVehicleEF	LHD1	0.32	0.10
tblVehicleEF	LHD1	9.0000e-005	8.7260e-005
tblVehicleEF	LHD1	6.1270e-003	6.8007e-003
tblVehicleEF	LHD1	4.2100e-004	1.3311e-004
tblVehicleEF	LHD1	3.6860e-003	3.1700e-003
tblVehicleEF	LHD1	0.13	0.11
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.0330e-003	1.7530e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.35	0.25
tblVehicleEF	LHD1	0.36	0.11
tblVehicleEF	LHD2	4.6500e-003	4.3805e-003
tblVehicleEF	LHD2	5.8620e-003	5.0498e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.45	0.57
tblVehicleEF	LHD2	1.67	0.89
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.02
tblVehicleEF	LHD2	30.01	10.61
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.88	1.08
tblVehicleEF	LHD2	0.66	0.27
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01

tblVehicleEF	LHD2	5.5800e-004	1.9149e-004
tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
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tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8000e-004	1.1332e-003
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tblVehicleEF	LHD2	0.11	0.15
tblVehicleEF	LHD2	0.15	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2893e-004
tblVehicleEF	LHD2	6.1920e-003	6.7671e-003
tblVehicleEF	LHD2	3.3100e-004	1.0499e-004
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tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.8000e-004	1.1332e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.11	0.15
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tblVehicleEF	LHD2	5.9540e-003	5.1158e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16

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tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.03
tblVehicleEF	LHD2	30.01	10.54
tblVehicleEF	LHD2	0.10	0.09
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tblVehicleEF	LHD2	0.63	0.26
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01
tblVehicleEF	LHD2	5.5800e-004	1.9149e-004
tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
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tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.2380e-003	1.5798e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.10	0.15
tblVehicleEF	LHD2	0.15	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2893e-004
tblVehicleEF	LHD2	6.1920e-003	6.7672e-003

tblVehicleEF	LHD2	3.3000e-004	1.0428e-004
tblVehicleEF	LHD2	2.1090e-003	2.8050e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2380e-003	1.5798e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.10	0.15
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	4.6500e-003	4.3786e-003
tblVehicleEF	LHD2	5.8380e-003	5.0320e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.14	0.16
tblVehicleEF	LHD2	0.45	0.57
tblVehicleEF	LHD2	1.68	0.90
tblVehicleEF	LHD2	13.53	13.42
tblVehicleEF	LHD2	634.55	698.01
tblVehicleEF	LHD2	30.01	10.62
tblVehicleEF	LHD2	0.10	0.09
tblVehicleEF	LHD2	0.87	1.06
tblVehicleEF	LHD2	0.67	0.27
tblVehicleEF	LHD2	1.1790e-003	1.1742e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	9.7680e-003	0.01
tblVehicleEF	LHD2	5.5800e-004	1.9149e-004
tblVehicleEF	LHD2	1.1280e-003	1.1234e-003
tblVehicleEF	LHD2	0.04	0.04

tblVehicleEF	LHD2	2.6300e-003	2.5992e-003
tblVehicleEF	LHD2	9.3300e-003	0.01
tblVehicleEF	LHD2	5.1400e-004	1.7607e-004
tblVehicleEF	LHD2	1.4720e-003	2.0038e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.5900e-004	1.1074e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.12	0.16
tblVehicleEF	LHD2	0.16	0.07
tblVehicleEF	LHD2	1.3300e-004	1.2893e-004
tblVehicleEF	LHD2	6.1910e-003	6.7671e-003
tblVehicleEF	LHD2	3.3100e-004	1.0512e-004
tblVehicleEF	LHD2	1.4720e-003	2.0038e-003
tblVehicleEF	LHD2	0.05	0.07
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	8.5900e-004	1.1074e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.12	0.16
tblVehicleEF	LHD2	0.17	0.08
tblVehicleEF	MCY	0.53	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.48	19.74
tblVehicleEF	MCY	9.63	8.47
tblVehicleEF	MCY	187.52	223.45
tblVehicleEF	MCY	45.30	60.30
tblVehicleEF	MCY	1.13	1.13

tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
tblVehicleEF	MCY	4.0640e-003	3.4455e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
tblVehicleEF	MCY	3.8350e-003	3.2508e-003
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	0.66	0.68
tblVehicleEF	MCY	2.62	2.65
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.08	1.84
tblVehicleEF	MCY	2.2730e-003	2.2113e-003
tblVehicleEF	MCY	6.7100e-004	5.9675e-004
tblVehicleEF	MCY	1.07	1.10
tblVehicleEF	MCY	0.66	0.69
tblVehicleEF	MCY	0.66	0.68
tblVehicleEF	MCY	3.25	3.27
tblVehicleEF	MCY	0.63	0.60
tblVehicleEF	MCY	2.26	2.00
tblVehicleEF	MCY	0.52	0.38
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	18.74	18.94
tblVehicleEF	MCY	8.81	7.73

tblVehicleEF	MCY	187.52	221.94
tblVehicleEF	MCY	45.30	58.43
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
tblVehicleEF	MCY	4.0640e-003	3.4455e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
tblVehicleEF	MCY	3.8350e-003	3.2508e-003
tblVehicleEF	MCY	1.74	1.75
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	2.56	2.58
tblVehicleEF	MCY	0.60	0.57
tblVehicleEF	MCY	1.85	1.63
tblVehicleEF	MCY	2.2590e-003	2.1963e-003
tblVehicleEF	MCY	6.5100e-004	5.7823e-004
tblVehicleEF	MCY	1.74	1.75
tblVehicleEF	MCY	0.72	0.75
tblVehicleEF	MCY	1.10	1.09
tblVehicleEF	MCY	3.17	3.18
tblVehicleEF	MCY	0.60	0.57
tblVehicleEF	MCY	2.01	1.77
tblVehicleEF	MCY	0.53	0.39

tblVehicleEF	MCY	0.16	0.24
tblVehicleEF	MCY	19.59	19.90
tblVehicleEF	MCY	9.76	8.61
tblVehicleEF	MCY	187.52	223.76
tblVehicleEF	MCY	45.30	60.68
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3146e-003
tblVehicleEF	MCY	4.0640e-003	3.4455e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.1620e-003	2.1659e-003
tblVehicleEF	MCY	3.8350e-003	3.2508e-003
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.86	0.89
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	2.64	2.66
tblVehicleEF	MCY	0.73	0.69
tblVehicleEF	MCY	2.12	1.88
tblVehicleEF	MCY	2.2750e-003	2.2143e-003
tblVehicleEF	MCY	6.7500e-004	6.0045e-004
tblVehicleEF	MCY	1.17	1.19
tblVehicleEF	MCY	0.86	0.89
tblVehicleEF	MCY	0.63	0.65
tblVehicleEF	MCY	3.26	3.29

tblVehicleEF	MCY	0.73	0.69
tblVehicleEF	MCY	2.31	2.05
tblVehicleEF	MDV	0.02	9.2304e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.77	1.63
tblVehicleEF	MDV	3.11	3.48
tblVehicleEF	MDV	543.27	449.17
tblVehicleEF	MDV	109.34	89.67
tblVehicleEF	MDV	0.19	0.16
tblVehicleEF	MDV	0.29	0.42
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.25	0.49
tblVehicleEF	MDV	5.4490e-003	4.4414e-003
tblVehicleEF	MDV	1.1480e-003	8.8732e-004
tblVehicleEF	MDV	0.07	0.09

tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.07	0.10
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.27	0.54
tblVehicleEF	MDV	0.02	9.6792e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.90	1.75
tblVehicleEF	MDV	2.66	2.97
tblVehicleEF	MDV	567.14	462.77
tblVehicleEF	MDV	109.34	88.67
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.26	0.39
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.05	0.05
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.22	0.44

tblVehicleEF	MDV	5.6890e-003	4.5760e-003
tblVehicleEF	MDV	1.1400e-003	8.7748e-004
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.16
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.24	0.48
tblVehicleEF	MDV	0.02	9.0788e-003
tblVehicleEF	MDV	0.02	0.10
tblVehicleEF	MDV	1.72	1.59
tblVehicleEF	MDV	3.20	3.60
tblVehicleEF	MDV	534.52	444.14
tblVehicleEF	MDV	109.34	89.90
tblVehicleEF	MDV	0.19	0.15
tblVehicleEF	MDV	0.29	0.43
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.4830e-003	2.3869e-003
tblVehicleEF	MDV	2.6470e-003	2.3461e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.2920e-003	2.2023e-003
tblVehicleEF	MDV	2.4370e-003	2.1597e-003
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.07	0.09

tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.11	0.07
tblVehicleEF	MDV	0.25	0.50
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tblVehicleEF	MDV	1.1500e-003	8.8960e-004
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tblVehicleEF	MDV	0.18	0.17
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.07	0.06
tblVehicleEF	MDV	0.11	0.07
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tblVehicleEF	MH	0.03	0.03
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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.1950e-003	3.2285e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.4630e-003	3.2517e-004

tblVehicleEF	MH	1.18	1.05
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.49	0.43
tblVehicleEF	MH	0.13	0.08
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tblVehicleEF	MH	0.43	0.11
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tblVehicleEF	MH	1.18	1.05
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.49	0.43
tblVehicleEF	MH	0.18	0.11
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.47	0.12
tblVehicleEF	MH	0.04	0.01
tblVehicleEF	MH	0.03	0.02
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
tblVehicleEF	MH	0.06	0.06

tblVehicleEF	MH	3.1950e-003	3.2285e-003
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tblVehicleEF	MH	0.08	0.07
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tblVehicleEF	MH	0.18	0.11
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tblVehicleEF	MH	0.45	0.12
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tblVehicleEF	MH	0.01	0.01

tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.5790e-003	3.5258e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.1950e-003	3.2285e-003
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tblVehicleEF	MH	1.4630e-003	3.2517e-004
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tblVehicleEF	MH	1.35	1.20
tblVehicleEF	MH	0.10	0.09
tblVehicleEF	MH	0.51	0.44
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.07
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tblVehicleEF	MHD	1.2830e-003	6.6568e-004
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tblVehicleEF	MHD	7.8800e-004	1.2725e-004
tblVehicleEF	MHD	1.3410e-003	8.0902e-004
tblVehicleEF	MHD	0.05	0.03

tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.3700e-004	4.9874e-004
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tblVehicleEF	MHD	0.03	0.03
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.07
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4245e-004

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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	9.3600e-004	1.5493e-004
tblVehicleEF	MHD	2.6110e-003	2.5981e-003
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	0.04	0.07
tblVehicleEF	MHD	8.6100e-004	1.4245e-004
tblVehicleEF	MHD	1.4110e-003	8.5520e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	8.2400e-004	4.9209e-004
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tblVehicleEF	MHD	1.4110e-003	8.5520e-004
tblVehicleEF	MHD	0.06	0.03
tblVehicleEF	MHD	0.05	0.04
tblVehicleEF	MHD	8.2400e-004	4.9209e-004
tblVehicleEF	MHD	0.11	0.17

tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	0.51	0.08
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tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.29	0.61
tblVehicleEF	OBUS	0.68	1.24
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tblVehicleEF	OBUS	2.05	2.51
tblVehicleEF	OBUS	2.66	0.62
tblVehicleEF	OBUS	3.0000e-004	3.3600e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	7.8200e-004	1.9896e-004
tblVehicleEF	OBUS	2.8700e-004	3.2147e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	9.9080e-003	0.05
tblVehicleEF	OBUS	7.2000e-004	1.8311e-004
tblVehicleEF	OBUS	1.4950e-003	1.8642e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07

tblVehicleEF	OBUS	7.8100e-004	9.3194e-004
tblVehicleEF	OBUS	0.07	0.14
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tblVehicleEF	OBUS	7.9500e-004	1.9669e-004
tblVehicleEF	OBUS	1.4950e-003	1.8642e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	7.8100e-004	9.3194e-004
tblVehicleEF	OBUS	0.09	0.18
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.42	0.13
tblVehicleEF	OBUS	0.01	9.0382e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.57
tblVehicleEF	OBUS	0.69	1.26
tblVehicleEF	OBUS	5.75	2.40
tblVehicleEF	OBUS	116.31	99.64
tblVehicleEF	OBUS	1,273.03	1,458.76
tblVehicleEF	OBUS	68.83	19.64
tblVehicleEF	OBUS	0.67	0.72
tblVehicleEF	OBUS	1.93	2.36
tblVehicleEF	OBUS	2.62	0.61
tblVehicleEF	OBUS	2.5300e-004	2.8372e-003

tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	7.8200e-004	1.9896e-004
tblVehicleEF	OBUS	2.4200e-004	2.7145e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	9.9080e-003	0.05
tblVehicleEF	OBUS	7.2000e-004	1.8311e-004
tblVehicleEF	OBUS	2.1920e-003	2.6900e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	1.1100e-003	1.3038e-003
tblVehicleEF	OBUS	0.07	0.15
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.37	0.12
tblVehicleEF	OBUS	1.1220e-003	9.4733e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9000e-004	1.9437e-004
tblVehicleEF	OBUS	2.1920e-003	2.6900e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	1.1100e-003	1.3038e-003
tblVehicleEF	OBUS	0.09	0.18
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.40	0.13
tblVehicleEF	OBUS	0.01	9.0689e-003

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.31	0.66
tblVehicleEF	OBUS	0.68	1.23
tblVehicleEF	OBUS	6.15	2.57
tblVehicleEF	OBUS	103.03	96.78
tblVehicleEF	OBUS	1,273.03	1,458.72
tblVehicleEF	OBUS	68.83	19.93
tblVehicleEF	OBUS	0.62	0.70
tblVehicleEF	OBUS	2.02	2.46
tblVehicleEF	OBUS	2.67	0.62
tblVehicleEF	OBUS	3.6500e-004	4.0820e-003
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	7.8200e-004	1.9896e-004
tblVehicleEF	OBUS	3.4900e-004	3.9054e-003
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	9.9080e-003	0.05
tblVehicleEF	OBUS	7.2000e-004	1.8311e-004
tblVehicleEF	OBUS	1.5550e-003	1.9741e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	7.6300e-004	9.1952e-004
tblVehicleEF	OBUS	0.07	0.14
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.39	0.12
tblVehicleEF	OBUS	9.9500e-004	9.2027e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9600e-004	1.9718e-004
tblVehicleEF	OBUS	1.5550e-003	1.9741e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.06	0.09
tblVehicleEF	OBUS	7.6300e-004	9.1952e-004
tblVehicleEF	OBUS	0.09	0.18
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.42	0.14
tblVehicleEF	SBUS	0.88	0.07
tblVehicleEF	SBUS	0.01	7.9701e-003
tblVehicleEF	SBUS	0.07	6.1513e-003
tblVehicleEF	SBUS	7.89	2.68
tblVehicleEF	SBUS	0.84	0.67
tblVehicleEF	SBUS	7.67	0.86
tblVehicleEF	SBUS	1,153.25	357.24
tblVehicleEF	SBUS	1,098.50	1,142.91
tblVehicleEF	SBUS	52.01	5.22
tblVehicleEF	SBUS	10.62	3.36
tblVehicleEF	SBUS	4.93	5.23
tblVehicleEF	SBUS	12.73	0.80
tblVehicleEF	SBUS	0.01	4.8914e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03

tblVehicleEF	SBUS	7.4700e-004	4.5351e-005
tblVehicleEF	SBUS	0.01	4.6798e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
tblVehicleEF	SBUS	3.4480e-003	9.3291e-004
tblVehicleEF	SBUS	0.03	7.9894e-003
tblVehicleEF	SBUS	0.96	0.31
tblVehicleEF	SBUS	1.6800e-003	4.7378e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.40	0.04
tblVehicleEF	SBUS	0.01	3.3776e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5300e-004	5.1647e-005
tblVehicleEF	SBUS	3.4480e-003	9.3291e-004
tblVehicleEF	SBUS	0.03	7.9894e-003
tblVehicleEF	SBUS	1.38	0.44
tblVehicleEF	SBUS	1.6800e-003	4.7378e-004
tblVehicleEF	SBUS	0.14	0.12
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.44	0.04
tblVehicleEF	SBUS	0.88	0.07
tblVehicleEF	SBUS	0.01	8.0602e-003
tblVehicleEF	SBUS	0.06	5.4885e-003
tblVehicleEF	SBUS	7.76	2.63

tblVehicleEF	SBUS	0.86	0.68
tblVehicleEF	SBUS	6.22	0.70
tblVehicleEF	SBUS	1,206.53	366.05
tblVehicleEF	SBUS	1,098.50	1,142.92
tblVehicleEF	SBUS	52.01	4.95
tblVehicleEF	SBUS	10.96	3.44
tblVehicleEF	SBUS	4.65	4.93
tblVehicleEF	SBUS	12.69	0.79
tblVehicleEF	SBUS	0.01	4.1305e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	4.5351e-005
tblVehicleEF	SBUS	9.8410e-003	3.9518e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
tblVehicleEF	SBUS	5.0870e-003	1.3452e-003
tblVehicleEF	SBUS	0.03	8.1038e-003
tblVehicleEF	SBUS	0.95	0.31
tblVehicleEF	SBUS	2.4200e-003	6.5907e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.36	0.03
tblVehicleEF	SBUS	0.01	3.4613e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.2900e-004	4.9030e-005
tblVehicleEF	SBUS	5.0870e-003	1.3452e-003
tblVehicleEF	SBUS	0.03	8.1038e-003
tblVehicleEF	SBUS	1.37	0.44
tblVehicleEF	SBUS	2.4200e-003	6.5907e-004
tblVehicleEF	SBUS	0.14	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.39	0.03
tblVehicleEF	SBUS	0.88	0.07
tblVehicleEF	SBUS	0.01	7.9428e-003
tblVehicleEF	SBUS	0.07	6.3035e-003
tblVehicleEF	SBUS	8.07	2.73
tblVehicleEF	SBUS	0.84	0.67
tblVehicleEF	SBUS	7.93	0.89
tblVehicleEF	SBUS	1,079.68	345.07
tblVehicleEF	SBUS	1,098.50	1,142.90
tblVehicleEF	SBUS	52.01	5.27
tblVehicleEF	SBUS	10.15	3.25
tblVehicleEF	SBUS	4.85	5.14
tblVehicleEF	SBUS	12.73	0.80
tblVehicleEF	SBUS	0.01	5.9422e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	7.4700e-004	4.5351e-005
tblVehicleEF	SBUS	0.01	5.6851e-003
tblVehicleEF	SBUS	0.32	0.32

tblVehicleEF	SBUS	2.6880e-003	2.6873e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	6.8700e-004	4.1698e-005
tblVehicleEF	SBUS	3.6280e-003	9.6962e-004
tblVehicleEF	SBUS	0.03	8.6170e-003
tblVehicleEF	SBUS	0.96	0.31
tblVehicleEF	SBUS	1.6230e-003	4.5940e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.01	3.2620e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5700e-004	5.2148e-005
tblVehicleEF	SBUS	3.6280e-003	9.6962e-004
tblVehicleEF	SBUS	0.03	8.6170e-003
tblVehicleEF	SBUS	1.38	0.44
tblVehicleEF	SBUS	1.6230e-003	4.5940e-004
tblVehicleEF	SBUS	0.14	0.12
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.45	0.04
tblVehicleEF	UBUS	2.95	6.22
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	12.36	42.74
tblVehicleEF	UBUS	8.85	0.71
tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.74
tblVehicleEF	UBUS	11.49	1.21

tblVehicleEF	UBUS	15.98	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	4.1600e-003	5.6506e-004
tblVehicleEF	UBUS	0.07	7.6310e-003
tblVehicleEF	UBUS	2.3210e-003	4.4997e-004
tblVehicleEF	UBUS	0.96	0.16
tblVehicleEF	UBUS	0.02	1.8353e-003
tblVehicleEF	UBUS	0.66	0.05
tblVehicleEF	UBUS	0.01	1.4781e-003
tblVehicleEF	UBUS	1.0390e-003	8.6510e-005
tblVehicleEF	UBUS	4.1600e-003	5.6506e-004
tblVehicleEF	UBUS	0.07	7.6310e-003
tblVehicleEF	UBUS	2.3210e-003	4.4997e-004
tblVehicleEF	UBUS	4.03	6.42
tblVehicleEF	UBUS	0.02	1.8353e-003
tblVehicleEF	UBUS	0.72	0.05
tblVehicleEF	UBUS	2.95	6.22
tblVehicleEF	UBUS	0.04	0.01
tblVehicleEF	UBUS	12.41	42.74
tblVehicleEF	UBUS	7.66	0.63

tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.60
tblVehicleEF	UBUS	10.84	1.20
tblVehicleEF	UBUS	15.93	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	5.9230e-003	8.1967e-004
tblVehicleEF	UBUS	0.07	7.8713e-003
tblVehicleEF	UBUS	3.1960e-003	6.2061e-004
tblVehicleEF	UBUS	0.97	0.16
tblVehicleEF	UBUS	0.02	1.6667e-003
tblVehicleEF	UBUS	0.60	0.04
tblVehicleEF	UBUS	0.01	1.4781e-003
tblVehicleEF	UBUS	1.0190e-003	8.5055e-005
tblVehicleEF	UBUS	5.9230e-003	8.1967e-004
tblVehicleEF	UBUS	0.07	7.8713e-003
tblVehicleEF	UBUS	3.1960e-003	6.2061e-004
tblVehicleEF	UBUS	4.04	6.42
tblVehicleEF	UBUS	0.02	1.6667e-003
tblVehicleEF	UBUS	0.66	0.05
tblVehicleEF	UBUS	2.95	6.22

tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	12.34	42.74
tblVehicleEF	UBUS	9.07	0.73
tblVehicleEF	UBUS	2,008.92	1,985.10
tblVehicleEF	UBUS	88.02	8.77
tblVehicleEF	UBUS	11.27	1.20
tblVehicleEF	UBUS	15.99	0.08
tblVehicleEF	UBUS	0.64	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.15	3.6952e-003
tblVehicleEF	UBUS	9.7400e-004	3.6394e-005
tblVehicleEF	UBUS	0.27	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.14	3.5328e-003
tblVehicleEF	UBUS	8.9600e-004	3.3463e-005
tblVehicleEF	UBUS	4.7740e-003	5.5338e-004
tblVehicleEF	UBUS	0.09	8.1480e-003
tblVehicleEF	UBUS	2.4590e-003	4.2794e-004
tblVehicleEF	UBUS	0.96	0.16
tblVehicleEF	UBUS	0.03	2.2296e-003
tblVehicleEF	UBUS	0.67	0.05
tblVehicleEF	UBUS	0.01	1.4781e-003
tblVehicleEF	UBUS	1.0430e-003	8.6803e-005
tblVehicleEF	UBUS	4.7740e-003	5.5338e-004
tblVehicleEF	UBUS	0.09	8.1480e-003
tblVehicleEF	UBUS	2.4590e-003	4.2794e-004
tblVehicleEF	UBUS	4.02	6.42

tblVehicleEF	UBUS	0.03	2.2296e-003
tblVehicleEF	UBUS	0.74	0.05
tblVehicleTrips	ST_TR	1.68	55.34
tblVehicleTrips	SU_TR	1.68	55.34
tblVehicleTrips	WD_TR	1.68	55.34

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					
2019	0.0000	0.0000	0.0000	0.0000	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					
2019	0.0000	0.0000	0.0000	0.0000	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	0.5364	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Energy	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
Mobile	3.4091	10.7609	49.0631	0.1305	12.0440	0.1822	12.2263	3.2145	0.1716	3.3862		13,431.5356	13,431.5356	0.8720		13,453.3361
Total	**3.9483**	**10.7863**	**49.0869**	**0.1306**	**12.0440**	**0.1842**	**12.2282**	**3.2145**	**0.1736**	**3.3881**		**13,461.9421**	**13,461.9421**	**0.8726**	**5.6000e-004**	**13,483.9237**

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	0.5364	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Energy	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
Mobile	3.4091	10.7609	49.0631	0.1305	12.0440	0.1822	12.2263	3.2145	0.1716	3.3862		13,431.5356	13,431.5356	0.8720		13,453.3361
Total	**3.9483**	**10.7863**	**49.0869**	**0.1306**	**12.0440**	**0.1842**	**12.2282**	**3.2145**	**0.1736**	**3.3881**		**13,461.9421**	**13,461.9421**	**0.8726**	**5.6000e-004**	**13,483.9237**

	ROG	NOx	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	1/1/2019	12/31/2018	5	0	
2	Site Preparation	Site Preparation	1/29/2019	1/28/2019	5	0	
3	Grading	Grading	1/31/2019	1/30/2019	5	0	
4	Building Construction	Building Construction	2/6/2019	2/5/2019	5	0	
5	Paving	Paving	11/13/2019	11/12/2019	5	0	
6	Architectural Coating	Architectural Coating	11/27/2019	11/26/2019	5	0	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

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	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Graders	0	6.00	187	0.41
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Cranes	0	6.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	6.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	0	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2019

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Site Preparation - 2019

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

Mitigated Construction On-Site

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

3.3 Site Preparation - 2019

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

3.4 Grading - 2019

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2019

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

Mitigated Construction On-Site

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

3.4 Grading - 2019

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

3.5 Building Construction - 2019

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

3.5 Building Construction - 2019

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

Mitigated Construction On-Site

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

3.5 Building Construction - 2019

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

3.6 Paving - 2019

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	0.0000	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2019

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0000	0.0000	0.0000
Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.6 Paving - 2019

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

3.7 Architectural Coating - 2019

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.7 Architectural Coating - 2019

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

Mitigated Construction On-Site

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

3.7 Architectural Coating - 2019

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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	3.4091	10.7609	49.0631	0.1305	12.0440	0.1822	12.2263	3.2145	0.1716	3.3862		13,431.5356	13,431.5356	0.8720		13,453.3361
Unmitigated	3.4091	10.7609	49.0631	0.1305	12.0440	0.1822	12.2263	3.2145	0.1716	3.3862		13,431.5356	13,431.5356	0.8720		13,453.3361

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Unrefrigerated Warehouse-No Rail	1,328.16	1,328.16	1328.16	5,692,118	5,692,118
Total	1,328.16	1,328.16	1,328.16	5,692,118	5,692,118

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
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Unrefrigerated Warehouse-No Rail	0.557490	0.059078	0.186496	0.118813	0.022821	0.005614	0.016986	0.023928	0.001427	0.001685	0.004212	0.000564	0.000885

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	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
NaturalGas Unmitigated	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820

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					
Unrefrigerated Warehouse-No Rail	258.411	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
Total		**2.7900e-003**	**0.0253**	**0.0213**	**1.5000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**		**30.4013**	**30.4013**	**5.8000e-004**	**5.6000e-004**	**30.5820**

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					
Unrefrigerated Warehouse-No Rail	0.258411	2.7900e-003	0.0253	0.0213	1.5000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003		30.4013	30.4013	5.8000e-004	5.6000e-004	30.5820
Total		**2.7900e-003**	**0.0253**	**0.0213**	**1.5000e-004**		**1.9300e-003**	**1.9300e-003**		**1.9300e-003**	**1.9300e-003**		**30.4013**	**30.4013**	**5.8000e-004**	**5.6000e-004**	**30.5820**

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	0.5364	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Unmitigated	0.5364	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Total	**0.5364**	**2.0000e-005**	**2.4700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.6000e-003**

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	0.0610					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4752					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		5.2500e-003	5.2500e-003	1.0000e-005		5.6000e-003
Total	**0.5364**	**2.0000e-005**	**2.4700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**		**5.2500e-003**	**5.2500e-003**	**1.0000e-005**		**5.6000e-003**

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 A.2
GARDENA TOD SPECIFIC PLAN – PROPOSED PROJECT

Gardena Transit-Oriented Development Specific Plan

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	275.00	Space	0.00	110,000.00	0
Apartments Mid Rise	265.00	Dwelling Unit	1.33	265,000.00	758

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2019 RPS.

Land Use - Project-specific land use.

Construction Phase - Construction schedule based on project-specific information.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Trips and VMT - Construction trips are calculated outside of CalEEMod.

Demolition -

Grading -

Vehicle Trips - Project-specific trip rates.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Woodstoves - No wood-burning fireplaces or stoves.

Energy Use - 2019 Title 24.

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	29.00
tblConstructionPhase	NumDays	200.00	592.00

tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	741.44	662.11
tblEnergyUse	LightingElect	1.75	1.56
tblEnergyUse	T24E	179.76	160.53
tblEnergyUse	T24NG	5,911.46	5,852.35
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	225.25	0.00
tblFireplaces	NumberNoFireplace	26.50	0.00
tblFireplaces	NumberWood	13.25	0.00
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tblFleetMix	HHD	0.03	0.03
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tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.21	0.19

tblFleetMix	LDT2	0.21	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.2270e-003	6.2157e-003
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tblFleetMix	MDV	0.12	0.12
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tblFleetMix	MH	8.6200e-004	9.0699e-004
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tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.5460e-003	1.4203e-003
tblFleetMix	OBUS	2.5460e-003	1.4203e-003
tblFleetMix	SBUS	6.9200e-004	6.0140e-004
tblFleetMix	SBUS	6.9200e-004	6.0140e-004
tblFleetMix	UBUS	2.1330e-003	1.6853e-003
tblFleetMix	UBUS	2.1330e-003	1.6853e-003
tblGrading	AcresOfGrading	5.16	3.75
tblGrading	AcresOfGrading	3.44	2.50
tblGrading	MaterialExported	0.00	8,000.00
tblLandUse	LotAcreage	2.47	0.00
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tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00

tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00
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tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	8.00	11.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblSequestration	NumberOfNewTrees	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	109.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,000.00	0.00
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tblTripsAndVMT	WorkerTripNumber	13.00	0.00
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tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
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tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
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tblVehicleEF	HHD	7.6000e-005	4.1548e-006
tblVehicleEF	HHD	0.09	0.02
tblVehicleEF	HHD	4.0500e-004	1.0501e-004
tblVehicleEF	HHD	0.08	2.8597e-006

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tblVehicleEF	HHD	0.01	0.01
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tblVehicleEF	HHD	1.0000e-004	6.1295e-006
tblVehicleEF	HHD	4.7840e-003	2.5916e-004
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tblVehicleEF	HHD	7.6000e-005	4.1548e-006
tblVehicleEF	HHD	0.20	0.11
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tblVehicleEF	HHD	0.08	3.1310e-006
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tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.6360e-003	2.5944e-003
tblVehicleEF	LDA	5.6700e-004	5.1108e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.22
tblVehicleEF	LDA	5.1340e-003	2.8292e-003
tblVehicleEF	LDA	4.2110e-003	0.04
tblVehicleEF	LDA	0.67	0.73
tblVehicleEF	LDA	0.89	1.74
tblVehicleEF	LDA	275.40	273.72
tblVehicleEF	LDA	54.94	51.10
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003

tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.7590e-003	2.7078e-003
tblVehicleEF	LDA	5.6400e-004	5.0571e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	4.7330e-003	2.5922e-003
tblVehicleEF	LDA	4.8460e-003	0.05
tblVehicleEF	LDA	0.59	0.64
tblVehicleEF	LDA	1.08	2.10
tblVehicleEF	LDA	258.68	258.02
tblVehicleEF	LDA	54.94	51.77
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003

tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.5910e-003	2.5525e-003
tblVehicleEF	LDA	5.6700e-004	5.1232e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.7162e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.30
tblVehicleEF	LDT1	2.49	2.19
tblVehicleEF	LDT1	330.49	309.40
tblVehicleEF	LDT1	67.47	61.42
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.14	0.24

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.3240e-003	3.0617e-003
tblVehicleEF	LDT1	7.1800e-004	6.0783e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.01	7.1128e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.65	1.41
tblVehicleEF	LDT1	2.11	1.86
tblVehicleEF	LDT1	344.92	321.09

tblVehicleEF	LDT1	67.47	60.79
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.15	0.07
tblVehicleEF	LDT1	0.15	0.28
tblVehicleEF	LDT1	3.4700e-003	3.1774e-003
tblVehicleEF	LDT1	7.1200e-004	6.0161e-004
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.15	0.07
tblVehicleEF	LDT1	0.16	0.31
tblVehicleEF	LDT1	0.01	6.5898e-003
tblVehicleEF	LDT1	0.01	0.07

tblVehicleEF	LDT1	1.47	1.26
tblVehicleEF	LDT1	2.57	2.26
tblVehicleEF	LDT1	325.20	305.08
tblVehicleEF	LDT1	67.47	61.57
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.10
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.2700e-003	3.0190e-003
tblVehicleEF	LDT1	7.1900e-004	6.0927e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.19	0.10

tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	6.6130e-003	4.4259e-003
tblVehicleEF	LDT2	5.6850e-003	0.06
tblVehicleEF	LDT2	0.79	0.94
tblVehicleEF	LDT2	1.23	2.55
tblVehicleEF	LDT2	368.32	328.56
tblVehicleEF	LDT2	75.43	65.70
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.25
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6890e-003	3.2504e-003
tblVehicleEF	LDT2	7.7500e-004	6.5019e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12

tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0150e-003	4.7109e-003
tblVehicleEF	LDT2	5.0630e-003	0.06
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.06	2.18
tblVehicleEF	LDT2	384.82	339.87
tblVehicleEF	LDT2	75.43	65.01
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.8550e-003	3.3624e-003

tblVehicleEF	LDT2	7.7200e-004	6.4329e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LDT2	6.4820e-003	4.3362e-003
tblVehicleEF	LDT2	5.8190e-003	0.06
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tblVehicleEF	LDT2	75.43	65.86
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6280e-003	3.2090e-003
tblVehicleEF	LDT2	7.7500e-004	6.5178e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LHD1	5.2860e-003	5.3646e-003
tblVehicleEF	LHD1	0.01	4.9911e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.75	0.57
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.98
tblVehicleEF	LHD1	32.17	12.06
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.86	0.55
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004

tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.19
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
tblVehicleEF	LHD1	5.8400e-003	6.3743e-003
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tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.30	0.19
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3761e-003
tblVehicleEF	LHD1	0.01	5.0878e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.76	0.58

tblVehicleEF	LHD1	2.46	1.03
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	653.00
tblVehicleEF	LHD1	32.17	11.97
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.81	0.52
tblVehicleEF	LHD1	0.91	0.30
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.29	0.18
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
tblVehicleEF	LHD1	5.8400e-003	6.3745e-003
tblVehicleEF	LHD1	3.6700e-004	1.1848e-004

tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
tblVehicleEF	LHD1	0.08	0.06
tblVehicleEF	LHD1	0.29	0.18
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3623e-003
tblVehicleEF	LHD1	0.01	4.9647e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.74	0.56
tblVehicleEF	LHD1	2.59	1.09
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.97
tblVehicleEF	LHD1	32.17	12.07
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.85	0.54
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003

tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.32	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
tblVehicleEF	LHD1	5.8400e-003	6.3742e-003
tblVehicleEF	LHD1	3.7000e-004	1.1947e-004
tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.7460e-003	3.7399e-003
tblVehicleEF	LHD2	3.7700e-003	3.5361e-003
tblVehicleEF	LHD2	7.4580e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07

tblVehicleEF	LHD2	26.97	9.22
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.71
tblVehicleEF	LHD2	0.50	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
tblVehicleEF	LHD2	4.0500e-004	1.3978e-004
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003
tblVehicleEF	LHD2	2.9200e-004	9.1193e-005
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7479e-003
tblVehicleEF	LHD2	3.8180e-003	3.5743e-003
tblVehicleEF	LHD2	7.2080e-003	9.7971e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.20	0.69
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.16
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.67
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
tblVehicleEF	LHD2	4.0500e-004	1.3978e-004
tblVehicleEF	LHD2	1.5320e-003	2.1079e-003

tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3287e-003
tblVehicleEF	LHD2	2.9100e-004	9.0638e-005
tblVehicleEF	LHD2	1.5320e-003	2.1079e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7382e-003
tblVehicleEF	LHD2	3.7580e-003	3.5259e-003
tblVehicleEF	LHD2	7.5080e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.38
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.06
tblVehicleEF	LHD2	26.97	9.23
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.69

tblVehicleEF	LHD2	0.51	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
tblVehicleEF	LHD2	4.0500e-004	1.3978e-004
tblVehicleEF	LHD2	1.0410e-003	1.4722e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
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tblVehicleEF	LHD2	0.08	0.12
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003
tblVehicleEF	LHD2	2.9200e-004	9.1296e-005
tblVehicleEF	LHD2	1.0410e-003	1.4722e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.12

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.72	18.86
tblVehicleEF	MCY	9.68	8.54
tblVehicleEF	MCY	189.29	223.65
tblVehicleEF	MCY	44.13	59.21
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	0.58	0.55
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.2780e-003	2.2132e-003
tblVehicleEF	MCY	6.5900e-004	5.8591e-004
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64

tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	3.22	3.23
tblVehicleEF	MCY	0.58	0.55
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.05	18.15
tblVehicleEF	MCY	8.84	7.77
tblVehicleEF	MCY	189.29	222.30
tblVehicleEF	MCY	44.13	57.32
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	2.52	2.54
tblVehicleEF	MCY	0.54	0.51
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.2650e-003	2.1999e-003

tblVehicleEF	MCY	6.3900e-004	5.6721e-004
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	3.15	3.16
tblVehicleEF	MCY	0.54	0.51
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.82	19.00
tblVehicleEF	MCY	9.83	8.69
tblVehicleEF	MCY	189.29	223.92
tblVehicleEF	MCY	44.13	59.59
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.15	1.17
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tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	2.59	2.61

tblVehicleEF	MCY	0.67	0.63
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.2800e-003	2.2159e-003
tblVehicleEF	MCY	6.6300e-004	5.8968e-004
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tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.67	0.63
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	5.6774e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.21	1.09
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tblVehicleEF	MDV	495.22	403.78
tblVehicleEF	MDV	99.91	79.83
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.19	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08

tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	4.9590e-003	3.9917e-003
tblVehicleEF	MDV	1.0380e-003	7.9003e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.39
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tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.32	1.19
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tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.18	0.29
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003

tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.15	0.32
tblVehicleEF	MDV	5.1770e-003	4.1085e-003
tblVehicleEF	MDV	1.0320e-003	7.8192e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MDV	0.01	5.5643e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.17	1.05
tblVehicleEF	MDV	2.29	3.02
tblVehicleEF	MDV	487.26	399.41
tblVehicleEF	MDV	99.91	80.02
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.20	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003

tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	4.8790e-003	3.9485e-003
tblVehicleEF	MDV	1.0390e-003	7.9190e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MH	0.02	8.6582e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.76	0.97
tblVehicleEF	MH	5.23	2.03
tblVehicleEF	MH	1,125.05	1,475.23
tblVehicleEF	MH	59.88	18.84
tblVehicleEF	MH	1.00	1.04
tblVehicleEF	MH	0.75	0.25

tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	0.84	0.73
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.36	0.31
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9000e-004	1.8641e-004
tblVehicleEF	MH	0.84	0.73
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.36	0.31
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01
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tblVehicleEF	MH	0.02	0.02
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tblVehicleEF	MH	1,125.05	1,475.27

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tblVehicleEF	MH	0.71	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	1.24	1.04
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.51	0.43
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8454e-004
tblVehicleEF	MH	1.24	1.04
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.51	0.43
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.10
tblVehicleEF	MH	0.02	8.6008e-003
tblVehicleEF	MH	0.02	0.02

tblVehicleEF	MH	1.75	0.96
tblVehicleEF	MH	5.28	2.06
tblVehicleEF	MH	1,125.05	1,475.22
tblVehicleEF	MH	59.88	18.88
tblVehicleEF	MH	0.98	1.02
tblVehicleEF	MH	0.75	0.25
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	0.95	0.82
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.37	0.32
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9000e-004	1.8679e-004
tblVehicleEF	MH	0.95	0.82
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.37	0.32
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01

tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MHD	0.02	4.4297e-003
tblVehicleEF	MHD	3.8910e-003	2.0984e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.36	0.40
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.63	1.37
tblVehicleEF	MHD	130.55	64.71
tblVehicleEF	MHD	1,141.08	1,031.14
tblVehicleEF	MHD	62.84	12.06
tblVehicleEF	MHD	0.35	0.35
tblVehicleEF	MHD	0.76	1.08
tblVehicleEF	MHD	9.98	1.58
tblVehicleEF	MHD	1.0200e-004	3.2629e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	9.7000e-005	3.1218e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004
tblVehicleEF	MHD	1.0540e-003	6.2271e-004
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0500e-004	4.1013e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.2580e-003	6.1463e-004
tblVehicleEF	MHD	0.01	9.8543e-003
tblVehicleEF	MHD	7.2700e-004	1.1932e-004
tblVehicleEF	MHD	1.0540e-003	6.2271e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.0500e-004	4.1013e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	0.01	4.2036e-003
tblVehicleEF	MHD	3.9490e-003	2.1413e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.34
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.34	1.31
tblVehicleEF	MHD	138.27	64.79
tblVehicleEF	MHD	1,141.08	1,031.15
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tblVehicleEF	MHD	9.94	1.58
tblVehicleEF	MHD	8.6000e-005	2.7779e-004
tblVehicleEF	MHD	0.13	0.13

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	8.2000e-005	2.6577e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004
tblVehicleEF	MHD	1.5770e-003	9.2474e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	1.3310e-003	6.1548e-004
tblVehicleEF	MHD	0.01	9.8544e-003
tblVehicleEF	MHD	7.2200e-004	1.1815e-004
tblVehicleEF	MHD	1.5770e-003	9.2474e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
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tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.07
tblVehicleEF	MHD	0.02	4.7556e-003
tblVehicleEF	MHD	3.8750e-003	2.0848e-003

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tblVehicleEF	MHD	0.50	0.49
tblVehicleEF	MHD	0.32	0.28
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tblVehicleEF	MHD	119.87	64.61
tblVehicleEF	MHD	1,141.08	1,031.14
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tblVehicleEF	MHD	0.74	1.06
tblVehicleEF	MHD	9.99	1.58
tblVehicleEF	MHD	1.2400e-004	3.9328e-004
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tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
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tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
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tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.8500e-004	3.9956e-004
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tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.35	0.06

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tblVehicleEF	MHD	1.0750e-003	6.3847e-004
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tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.8500e-004	3.9956e-004
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tblVehicleEF	MHD	0.02	0.03
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tblVehicleEF	OBUS	1,246.68	1,357.87
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tblVehicleEF	OBUS	0.69	1.16
tblVehicleEF	OBUS	2.52	0.84
tblVehicleEF	OBUS	2.0000e-005	1.1818e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
tblVehicleEF	OBUS	8.2900e-004	2.0001e-004

tblVehicleEF	OBUS	1.9000e-005	1.1307e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
tblVehicleEF	OBUS	7.6200e-004	1.8390e-004
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.6700e-004	9.5046e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	9.8300e-004	8.5795e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8827e-004
tblVehicleEF	OBUS	1.4160e-003	1.8398e-003
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tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6700e-004	9.5046e-004
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tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4017e-003
tblVehicleEF	OBUS	6.1370e-003	5.0478e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.61
tblVehicleEF	OBUS	0.45	0.63

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tblVehicleEF	OBUS	1,246.68	1,357.89
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tblVehicleEF	OBUS	0.22	0.33
tblVehicleEF	OBUS	0.64	1.09
tblVehicleEF	OBUS	2.49	0.83
tblVehicleEF	OBUS	1.7000e-005	1.0501e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
tblVehicleEF	OBUS	8.2900e-004	2.0001e-004
tblVehicleEF	OBUS	1.6000e-005	1.0047e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
tblVehicleEF	OBUS	7.6200e-004	1.8390e-004
tblVehicleEF	OBUS	2.0710e-003	2.6502e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0770e-003	1.3153e-003
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tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.31	0.11
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tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8613e-004

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tblVehicleEF	OBUS	1.0770e-003	1.3153e-003
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tblVehicleEF	OBUS	1,246.68	1,357.87
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tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
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tblVehicleEF	OBUS	2.3000e-005	1.3046e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003

tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
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tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4400e-004	9.3077e-004
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tblVehicleEF	OBUS	7.7000e-004	1.8872e-004
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tblVehicleEF	OBUS	0.05	0.07
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tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
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tblVehicleEF	SBUS	6.8800e-004	5.9097e-005
tblVehicleEF	SBUS	3.3720e-003	1.0292e-003
tblVehicleEF	SBUS	0.03	8.9743e-003
tblVehicleEF	SBUS	1.43	0.52

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tblVehicleEF	SBUS	0.02	0.03
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tblVehicleEF	SBUS	6.5460e-003	2.9000e-003
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tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
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tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
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tblVehicleEF	SBUS	0.03	9.3494e-003
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tblVehicleEF	SBUS	0.02	0.02

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tblVehicleEF	UBUS	1,951.45	1,987.99
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tblVehicleEF	UBUS	15.09	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
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tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.1100e-003	5.4675e-004
tblVehicleEF	UBUS	0.07	7.4129e-003
tblVehicleEF	UBUS	2.4100e-003	4.3392e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.02	1.8386e-003
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tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1630e-003	8.3318e-005
tblVehicleEF	UBUS	4.1100e-003	5.4675e-004
tblVehicleEF	UBUS	0.07	7.4129e-003

tblVehicleEF	UBUS	2.4100e-003	4.3392e-004
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tblVehicleEF	UBUS	0.60	0.07
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tblVehicleEF	UBUS	5.8640e-003	7.9323e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	1.6648e-003
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.8070e-003	1.4048e-003

tblVehicleEF	UBUS	1.1430e-003	8.1863e-005
tblVehicleEF	UBUS	5.8640e-003	7.9323e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	3.33	5.97
tblVehicleEF	UBUS	0.02	1.6648e-003
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.66	45.42
tblVehicleEF	UBUS	9.05	0.73
tblVehicleEF	UBUS	1,951.45	1,987.99
tblVehicleEF	UBUS	100.38	8.45
tblVehicleEF	UBUS	9.15	0.47
tblVehicleEF	UBUS	15.10	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.6290e-003	5.3736e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	0.79	0.09

tblVehicleEF	UBUS	0.03	2.2448e-003
tblVehicleEF	UBUS	0.70	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1670e-003	8.3611e-005
tblVehicleEF	UBUS	4.6290e-003	5.3736e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	3.31	5.97
tblVehicleEF	UBUS	0.03	2.2448e-003
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	ST_TR	6.39	4.97
tblVehicleTrips	SU_TR	5.86	4.55
tblVehicleTrips	WD_TR	6.65	5.17
tblWoodstoves	NumberCatalytic	13.25	0.00
tblWoodstoves	NumberNoncatalytic	13.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2021	2.7404	27.0828	19.9272	0.0332	7.7718	1.4312	8.8242	4.0378	1.3358	5.0060	0.0000	3,193.7360	3,193.7360	0.8167	0.0000	3,214.1530
2022	2.2669	17.1917	17.4988	0.0303	0.0000	0.8097	0.8097	0.0000	0.7822	0.7822	0.0000	2,752.1214	2,752.1214	0.4793	0.0000	2,764.1048
2023	58.4967	16.1018	17.3402	0.0303	0.0000	0.7074	0.7074	0.0000	0.6831	0.6831	0.0000	2,752.4581	2,752.4581	0.5657	0.0000	2,764.1429
Maximum	**58.4967**	**27.0828**	**19.9272**	**0.0332**	**7.7718**	**1.4312**	**8.8242**	**4.0378**	**1.3358**	**5.0060**	**0.0000**	**3,193.7360**	**3,193.7360**	**0.8167**	**0.0000**	**3,214.1530**

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					
2021	2.7404	27.0828	19.9272	0.0332	3.0310	1.4312	4.0834	1.5747	1.3358	2.5429	0.0000	3,193.7360	3,193.7360	0.8167	0.0000	3,214.1529
2022	2.2669	17.1917	17.4988	0.0303	0.0000	0.8097	0.8097	0.0000	0.7822	0.7822	0.0000	2,752.1214	2,752.1214	0.4793	0.0000	2,764.1048
2023	58.4967	16.1018	17.3402	0.0303	0.0000	0.7074	0.7074	0.0000	0.6831	0.6831	0.0000	2,752.4581	2,752.4581	0.5657	0.0000	2,764.1429
Maximum	**58.4967**	**27.0828**	**19.9272**	**0.0332**	**3.0310**	**1.4312**	**4.0834**	**1.5747**	**1.3358**	**2.5429**	**0.0000**	**3,193.7360**	**3,193.7360**	**0.8167**	**0.0000**	**3,214.1529**

	ROG	NOx	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**	**61.00**	**0.00**	**45.84**	**61.00**	**0.00**	**38.06**	**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	6.4100	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211	0.0000	39.4265	39.4265	0.0380	0.0000	40.3769
Energy	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
Mobile	2.4806	5.6639	35.0116	0.1028	9.9130	0.0765	9.9894	2.6467	0.0712	2.7179		10,601.0353	10,601.0353	0.6348		10,616.9053
Stationary	3.8303	10.7054	9.7663	0.0184		0.5634	0.5634		0.5634	0.5634		1,959.4260	1,959.4260	0.2747		1,966.2938
Total	**12.8099**	**17.3823**	**66.9973**	**0.1273**	**9.9130**	**0.8226**	**10.7355**	**2.6467**	**0.8173**	**3.4640**	**0.0000**	**13,570.9153**	**13,570.9153**	**0.9661**	**0.0178**	**13,600.3737**

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	6.4100	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211	0.0000	39.4265	39.4265	0.0380	0.0000	40.3769
Energy	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
Mobile	2.4806	5.6639	35.0116	0.1028	9.9130	0.0765	9.9894	2.6467	0.0712	2.7179		10,601.0353	10,601.0353	0.6348		10,616.9053
Stationary	3.8303	10.7054	9.7663	0.0184		0.5634	0.5634		0.5634	0.5634		1,959.4260	1,959.4260	0.2747		1,966.2938
Total	**12.8099**	**17.3823**	**66.9973**	**0.1273**	**9.9130**	**0.8226**	**10.7355**	**2.6467**	**0.8173**	**3.4640**	**0.0000**	**13,570.9153**	**13,570.9153**	**0.9661**	**0.0178**	**13,600.3737**

	ROG	NOx	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

Gardena Transit-Oriented Development Specific Plan - Los Angeles-South Coast County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/16/2021	6	40	
2	Site Preparation	Site Preparation	8/17/2021	8/22/2021	6	5	
3	Grading	Grading	8/23/2021	9/2/2021	6	10	
4	Building Construction	Building Construction	9/3/2021	7/25/2023	6	592	
5	Architectural Coating	Architectural Coating	7/26/2023	8/28/2023	6	29	
6	Paving	Paving	8/29/2023	9/29/2023	6	28	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 3.75

Acres of Paving: 0

Residential Indoor: 536,625; Residential Outdoor: 178,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,600 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	11.00	81	0.73
Demolition	Rubber Tired Dozers	1	11.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	11.00	97	0.37
Site Preparation	Graders	1	11.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	9.63	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	11.00	97	0.37
Grading	Graders	1	8.25	187	0.41
Grading	Rubber Tired Dozers	1	8.25	247	0.40
Grading	Tractors/Loaders/Backhoes	1	9.63	97	0.37
Building Construction	Cranes	1	8.25	231	0.29
Building Construction	Forklifts	1	8.25	89	0.20
Building Construction	Generator Sets	1	11.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.25	97	0.37
Building Construction	Welders	3	11.00	46	0.45
Architectural Coating	Air Compressors	1	8.25	78	0.48
Paving	Cement and Mortar Mixers	1	8.25	9	0.56
Paving	Pavers	1	8.25	130	0.42
Paving	Paving Equipment	1	11.00	132	0.36
Paving	Rollers	1	9.63	80	0.38
Paving	Tractors/Loaders/Backhoes	1	11.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	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 - 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					
Fugitive Dust					0.5906	0.0000	0.5906	0.0894	0.0000	0.0894			0.0000			0.0000
Off-Road	2.7404	27.0828	19.9272	0.0332		1.4312	1.4312		1.3358	1.3358		3,193.7360	3,193.7360	0.8167		3,214.1530
Total	**2.7404**	**27.0828**	**19.9272**	**0.0332**	**0.5906**	**1.4312**	**2.0218**	**0.0894**	**1.3358**	**1.4252**		**3,193.7360**	**3,193.7360**	**0.8167**		**3,214.1530**

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2303	0.0000	0.2303	0.0349	0.0000	0.0349			0.0000			0.0000
Off-Road	2.7404	27.0828	19.9272	0.0332		1.4312	1.4312		1.3358	1.3358	0.0000	3,193.7360	3,193.7360	0.8167		3,214.1529
Total	**2.7404**	**27.0828**	**19.9272**	**0.0332**	**0.2303**	**1.4312**	**1.6616**	**0.0349**	**1.3358**	**1.3707**	**0.0000**	**3,193.7360**	**3,193.7360**	**0.8167**		**3,214.1529**

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.3 Site Preparation - 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					
Fugitive Dust					7.7718	0.0000	7.7718	4.0378	0.0000	4.0378			0.0000			0.0000
Off-Road	2.1392	23.9529	10.3957	0.0236		1.0524	1.0524		0.9682	0.9682		2,291.4614	2,291.4614	0.7411		2,309.9890
Total	**2.1392**	**23.9529**	**10.3957**	**0.0236**	**7.7718**	**1.0524**	**8.8242**	**4.0378**	**0.9682**	**5.0060**		**2,291.4614**	**2,291.4614**	**0.7411**		**2,309.9890**

3.3 Site Preparation - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0310	0.0000	3.0310	1.5747	0.0000	1.5747			0.0000			0.0000
Off-Road	2.1392	23.9529	10.3957	0.0236		1.0524	1.0524		0.9682	0.9682	0.0000	2,291.4614	2,291.4614	0.7411		2,309.9890
Total	**2.1392**	**23.9529**	**10.3957**	**0.0236**	**3.0310**	**1.0524**	**4.0834**	**1.5747**	**0.9682**	**2.5429**	**0.0000**	**2,291.4614**	**2,291.4614**	**0.7411**		**2,309.9890**

3.3 Site Preparation - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.4 Grading - 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					
Fugitive Dust					6.6984	0.0000	6.6984	3.4703	0.0000	3.4703			0.0000			0.0000
Off-Road	1.7715	19.7048	8.7057	0.0194		0.8771	0.8771		0.8070	0.8070		1,876.9641	1,876.9641	0.6071		1,892.1403
Total	**1.7715**	**19.7048**	**8.7057**	**0.0194**	**6.6984**	**0.8771**	**7.5756**	**3.4703**	**0.8070**	**4.2773**		**1,876.9641**	**1,876.9641**	**0.6071**		**1,892.1403**

3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6124	0.0000	2.6124	1.3534	0.0000	1.3534			0.0000			0.0000
Off-Road	1.7715	19.7048	8.7057	0.0194		0.8771	0.8771		0.8070	0.8070	0.0000	1,876.9641	1,876.9641	0.6071		1,892.1403
Total	**1.7715**	**19.7048**	**8.7057**	**0.0194**	**2.6124**	**0.8771**	**3.4895**	**1.3534**	**0.8070**	**2.1604**	**0.0000**	**1,876.9641**	**1,876.9641**	**0.6071**		**1,892.1403**

3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.5 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	2.4922	18.7496	17.7367	0.0303		0.9410	0.9410		0.9086	0.9086		2,751.6775	2,751.6775	0.4912		2,763.9586
Total	**2.4922**	**18.7496**	**17.7367**	**0.0303**		**0.9410**	**0.9410**		**0.9086**	**0.9086**		**2,751.6775**	**2,751.6775**	**0.4912**		**2,763.9586**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4922	18.7496	17.7367	0.0303		0.9410	0.9410		0.9086	0.9086	0.0000	2,751.6775	2,751.6775	0.4912		2,763.9586
Total	**2.4922**	**18.7496**	**17.7367**	**0.0303**		**0.9410**	**0.9410**		**0.9086**	**0.9086**	**0.0000**	**2,751.6775**	**2,751.6775**	**0.4912**		**2,763.9586**

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2669	17.1917	17.4988	0.0303		0.8097	0.8097		0.7822	0.7822		2,752.1214	2,752.1214	0.4793		2,764.1048
Total	**2.2669**	**17.1917**	**17.4988**	**0.0303**		**0.8097**	**0.8097**		**0.7822**	**0.7822**		**2,752.1214**	**2,752.1214**	**0.4793**		**2,764.1048**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

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

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	2.2669	17.1917	17.4988	0.0303		0.8097	0.8097		0.7822	0.7822	0.0000	2,752.1214	2,752.1214	0.4793		2,764.1048
Total	**2.2669**	**17.1917**	**17.4988**	**0.0303**		**0.8097**	**0.8097**		**0.7822**	**0.7822**	**0.0000**	**2,752.1214**	**2,752.1214**	**0.4793**		**2,764.1048**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0945	16.1018	17.3402	0.0303		0.7074	0.7074		0.6831	0.6831		2,752.4581	2,752.4581	0.4674		2,764.1429
Total	**2.0945**	**16.1018**	**17.3402**	**0.0303**		**0.7074**	**0.7074**		**0.6831**	**0.6831**		**2,752.4581**	**2,752.4581**	**0.4674**		**2,764.1429**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

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

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	2.0945	16.1018	17.3402	0.0303		0.7074	0.7074		0.6831	0.6831	0.0000	2,752.4581	2,752.4581	0.4674		2,764.1429
Total	**2.0945**	**16.1018**	**17.3402**	**0.0303**		**0.7074**	**0.7074**		**0.6831**	**0.6831**	**0.0000**	**2,752.4581**	**2,752.4581**	**0.4674**		**2,764.1429**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	58.2332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2635	1.7916	2.4903	4.0900e-003		0.0974	0.0974		0.0974	0.0974		386.9911	386.9911	0.0232		387.5699
Total	**58.4967**	**1.7916**	**2.4903**	**4.0900e-003**		**0.0974**	**0.0974**		**0.0974**	**0.0974**		**386.9911**	**386.9911**	**0.0232**		**387.5699**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

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

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	58.2332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2635	1.7916	2.4903	4.0900e-003		0.0974	0.0974		0.0974	0.0974	0.0000	386.9911	386.9911	0.0232		387.5699
Total	**58.4967**	**1.7916**	**2.4903**	**4.0900e-003**		**0.0974**	**0.0974**		**0.0974**	**0.0974**	**0.0000**	**386.9911**	**386.9911**	**0.0232**		**387.5699**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

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

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8863	8.5741	12.1033	0.0186		0.4241	0.4241		0.3914	0.3914		1,784.3210	1,784.3210	0.5657		1,798.4622
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8863**	**8.5741**	**12.1033**	**0.0186**		**0.4241**	**0.4241**		**0.3914**	**0.3914**		**1,784.3210**	**1,784.3210**	**0.5657**		**1,798.4622**

3.7 Paving - 2023

Unmitigated Construction Off-Site

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

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	0.8863	8.5741	12.1033	0.0186		0.4241	0.4241		0.3914	0.3914	0.0000	1,784.3210	1,784.3210	0.5657		1,798.4622
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8863**	**8.5741**	**12.1033**	**0.0186**		**0.4241**	**0.4241**		**0.3914**	**0.3914**	**0.0000**	**1,784.3210**	**1,784.3210**	**0.5657**		**1,798.4622**

3.7 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.4806	5.6639	35.0116	0.1028	9.9130	0.0765	9.9894	2.6467	0.0712	2.7179		10,601.0353	10,601.0353	0.6348		10,616.9053
Unmitigated	2.4806	5.6639	35.0116	0.1028	9.9130	0.0765	9.9894	2.6467	0.0712	2.7179		10,601.0353	10,601.0353	0.6348		10,616.9053

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,370.05	1,317.05	1205.75	4,575,591	4,575,591
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,370.05	1,317.05	1,205.75	4,575,591	4,575,591

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548537	0.062339	0.188526	0.118574	0.023741	0.006216	0.017891	0.025073	0.001420	0.001685	0.004487	0.000601	0.000907
Unenclosed Parking with Elevator	0.548537	0.062339	0.188526	0.118574	0.023741	0.006216	0.017891	0.025073	0.001420	0.001685	0.004487	0.000601	0.000907

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	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
NaturalGas Unmitigated	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978

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					
Apartments Mid Rise	8253.73	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0890**	**0.7606**	**0.3237**	**4.8600e-003**		**0.0615**	**0.0615**		**0.0615**	**0.0615**		**971.0275**	**971.0275**	**0.0186**	**0.0178**	**976.7978**

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					
Apartments Mid Rise	8.25373	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0890**	**0.7606**	**0.3237**	**4.8600e-003**		**0.0615**	**0.0615**		**0.0615**	**0.0615**		**971.0275**	**971.0275**	**0.0186**	**0.0178**	**976.7978**

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	6.4100	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211	0.0000	39.4265	39.4265	0.0380	0.0000	40.3769
Unmitigated	6.4100	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211	0.0000	39.4265	39.4265	0.0380	0.0000	40.3769

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	0.4627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.2860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6614	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211		39.4265	39.4265	0.0380		40.3769
Total	**6.4100**	**0.2523**	**21.8958**	**1.1600e-003**		**0.1211**	**0.1211**		**0.1211**	**0.1211**	**0.0000**	**39.4265**	**39.4265**	**0.0380**	**0.0000**	**40.3769**

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	0.4627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.2860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6614	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211		39.4265	39.4265	0.0380		40.3769
Total	**6.4100**	**0.2523**	**21.8958**	**1.1600e-003**		**0.1211**	**0.1211**		**0.1211**	**0.1211**	**0.0000**	**39.4265**	**39.4265**	**0.0380**	**0.0000**	**40.3769**

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
Emergency Generator	1	6	50	389	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	3.8303	10.7054	9.7663	0.0184		0.5634	0.5634		0.5634	0.5634		1,959.4260	1,959.4260	0.2747		1,966.2938
Total	**3.8303**	**10.7054**	**9.7663**	**0.0184**		**0.5634**	**0.5634**		**0.5634**	**0.5634**		**1,959.4260**	**1,959.4260**	**0.2747**		**1,966.2938**

11.0 Vegetation

Gardena Transit-Oriented Development Specific Plan

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking with Elevator	275.00	Space	0.00	110,000.00	0
Apartments Mid Rise	265.00	Dwelling Unit	1.33	265,000.00	758

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	534	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE 2019 RPS.

Land Use - Project-specific land use.

Construction Phase - Construction schedule based on project-specific information.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Off-road Equipment - Construction equipment operation is based on project-specific values.

Trips and VMT - Construction trips are calculated outside of CalEEMod.

Demolition -

Grading -

Vehicle Trips - Project-specific trip rates.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Vehicle Emission Factors - EMFAC 2017.

Woodstoves - No wood-burning fireplaces or stoves.

Energy Use - 2019 Title 24.

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation -

Operational Off-Road Equipment -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	29.00
tblConstructionPhase	NumDays	200.00	592.00

tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	4.00	10.00
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	741.44	662.11
tblEnergyUse	LightingElect	1.75	1.56
tblEnergyUse	T24E	179.76	160.53
tblEnergyUse	T24NG	5,911.46	5,852.35
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	225.25	0.00
tblFireplaces	NumberNoFireplace	26.50	0.00
tblFireplaces	NumberWood	13.25	0.00
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tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT1	0.04	0.06
tblFleetMix	LDT2	0.21	0.19

tblFleetMix	LDT2	0.21	0.19
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.2270e-003	6.2157e-003
tblFleetMix	LHD2	6.2270e-003	6.2157e-003
tblFleetMix	MCY	5.1840e-003	4.4872e-003
tblFleetMix	MCY	5.1840e-003	4.4872e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	8.6200e-004	9.0699e-004
tblFleetMix	MH	8.6200e-004	9.0699e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.5460e-003	1.4203e-003
tblFleetMix	OBUS	2.5460e-003	1.4203e-003
tblFleetMix	SBUS	6.9200e-004	6.0140e-004
tblFleetMix	SBUS	6.9200e-004	6.0140e-004
tblFleetMix	UBUS	2.1330e-003	1.6853e-003
tblFleetMix	UBUS	2.1330e-003	1.6853e-003
tblGrading	AcresOfGrading	5.16	3.75
tblGrading	AcresOfGrading	3.44	2.50
tblGrading	MaterialExported	0.00	8,000.00
tblLandUse	LotAcreage	2.47	0.00
tblLandUse	LotAcreage	6.97	1.33
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00

tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	6.00	8.25
tblOffRoadEquipment	UsageHours	8.00	11.00
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tblOffRoadEquipment	UsageHours	8.00	11.00
tblOffRoadEquipment	UsageHours	8.00	11.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	534
tblSequestration	NumberOfNewTrees	0.00	22.00
tblTripsAndVMT	HaulingTripNumber	109.00	0.00
tblTripsAndVMT	HaulingTripNumber	1,000.00	0.00
tblTripsAndVMT	VendorTripNumber	46.00	0.00
tblTripsAndVMT	WorkerTripNumber	13.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	8.00	0.00
tblTripsAndVMT	WorkerTripNumber	237.00	0.00
tblTripsAndVMT	WorkerTripNumber	47.00	0.00

tblTripsAndVMT	WorkerTripNumber	13.00	0.00
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tblVehicleEF	HHD	9.6000e-003	3.0540e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8400e-003	8.8984e-003
tblVehicleEF	HHD	6.0240e-003	0.02
tblVehicleEF	HHD	8.3000e-005	1.2425e-006
tblVehicleEF	HHD	1.0300e-004	5.8985e-006
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tblVehicleEF	HHD	0.45	0.03
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tblVehicleEF	HHD	0.07	5.1512e-007
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tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	9.1000e-005	1.3513e-006
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tblVehicleEF	HHD	4.0500e-004	1.0501e-004
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tblVehicleEF	HHD	0.01	0.01
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tblVehicleEF	HHD	7.6000e-005	4.1548e-006
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tblVehicleEF	LDA	1.04	2.04
tblVehicleEF	LDA	263.16	262.26
tblVehicleEF	LDA	54.94	51.65
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	2.6360e-003	2.5944e-003
tblVehicleEF	LDA	5.6700e-004	5.1108e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
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tblVehicleEF	LDA	4.2110e-003	0.04
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tblVehicleEF	LDA	0.89	1.74
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tblVehicleEF	LDA	54.94	51.10
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tblVehicleEF	LDA	0.06	0.16
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tblVehicleEF	LDA	2.1170e-003	1.7096e-003
tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003

tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.7590e-003	2.7078e-003
tblVehicleEF	LDA	5.6400e-004	5.0571e-004
tblVehicleEF	LDA	0.06	0.07
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.02
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	4.7330e-003	2.5922e-003
tblVehicleEF	LDA	4.8460e-003	0.05
tblVehicleEF	LDA	0.59	0.64
tblVehicleEF	LDA	1.08	2.10
tblVehicleEF	LDA	258.68	258.02
tblVehicleEF	LDA	54.94	51.77
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.06	0.17
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	2.1170e-003	1.7096e-003

tblVehicleEF	LDA	2.2400e-003	1.7590e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003
tblVehicleEF	LDA	1.9520e-003	1.5748e-003
tblVehicleEF	LDA	2.0590e-003	1.6174e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.5910e-003	2.5525e-003
tblVehicleEF	LDA	5.6700e-004	5.1232e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.7162e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.52	1.30
tblVehicleEF	LDT1	2.49	2.19
tblVehicleEF	LDT1	330.49	309.40
tblVehicleEF	LDT1	67.47	61.42
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.14	0.24

tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
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tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.17	0.32
tblVehicleEF	LDT1	3.3240e-003	3.0617e-003
tblVehicleEF	LDT1	7.1800e-004	6.0783e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.25	0.18
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.16	0.08
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	0.01	7.1128e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.65	1.41
tblVehicleEF	LDT1	2.11	1.86
tblVehicleEF	LDT1	344.92	321.09

tblVehicleEF	LDT1	67.47	60.79
tblVehicleEF	LDT1	0.12	0.09
tblVehicleEF	LDT1	0.13	0.22
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.04	0.03
tblVehicleEF	LDT1	0.15	0.07
tblVehicleEF	LDT1	0.15	0.28
tblVehicleEF	LDT1	3.4700e-003	3.1774e-003
tblVehicleEF	LDT1	7.1200e-004	6.0161e-004
tblVehicleEF	LDT1	0.19	0.18
tblVehicleEF	LDT1	0.26	0.19
tblVehicleEF	LDT1	0.14	0.14
tblVehicleEF	LDT1	0.05	0.05
tblVehicleEF	LDT1	0.15	0.07
tblVehicleEF	LDT1	0.16	0.31
tblVehicleEF	LDT1	0.01	6.5898e-003
tblVehicleEF	LDT1	0.01	0.07

tblVehicleEF	LDT1	1.47	1.26
tblVehicleEF	LDT1	2.57	2.26
tblVehicleEF	LDT1	325.20	305.08
tblVehicleEF	LDT1	67.47	61.57
tblVehicleEF	LDT1	0.14	0.10
tblVehicleEF	LDT1	0.15	0.24
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	3.3520e-003	2.5018e-003
tblVehicleEF	LDT1	3.2790e-003	2.4475e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003
tblVehicleEF	LDT1	3.0870e-003	2.3022e-003
tblVehicleEF	LDT1	3.0150e-003	2.2505e-003
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.10
tblVehicleEF	LDT1	0.17	0.33
tblVehicleEF	LDT1	3.2700e-003	3.0190e-003
tblVehicleEF	LDT1	7.1900e-004	6.0927e-004
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.28	0.20
tblVehicleEF	LDT1	0.10	0.10
tblVehicleEF	LDT1	0.05	0.04
tblVehicleEF	LDT1	0.19	0.10

tblVehicleEF	LDT1	0.19	0.36
tblVehicleEF	LDT2	6.6130e-003	4.4259e-003
tblVehicleEF	LDT2	5.6850e-003	0.06
tblVehicleEF	LDT2	0.79	0.94
tblVehicleEF	LDT2	1.23	2.55
tblVehicleEF	LDT2	368.32	328.56
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tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.25
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6890e-003	3.2504e-003
tblVehicleEF	LDT2	7.7500e-004	6.5019e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.09	0.12

tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.08	0.31
tblVehicleEF	LDT2	7.0150e-003	4.7109e-003
tblVehicleEF	LDT2	5.0630e-003	0.06
tblVehicleEF	LDT2	0.87	1.03
tblVehicleEF	LDT2	1.06	2.18
tblVehicleEF	LDT2	384.82	339.87
tblVehicleEF	LDT2	75.43	65.01
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.24
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.26
tblVehicleEF	LDT2	3.8550e-003	3.3624e-003

tblVehicleEF	LDT2	7.7200e-004	6.4329e-004
tblVehicleEF	LDT2	0.07	0.11
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.06	0.10
tblVehicleEF	LDT2	0.03	0.03
tblVehicleEF	LDT2	0.06	0.05
tblVehicleEF	LDT2	0.07	0.28
tblVehicleEF	LDT2	6.4820e-003	4.3362e-003
tblVehicleEF	LDT2	5.8190e-003	0.06
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tblVehicleEF	LDT2	1.27	2.64
tblVehicleEF	LDT2	362.26	324.38
tblVehicleEF	LDT2	75.43	65.86
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.09	0.26
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	2.1490e-003	1.8228e-003
tblVehicleEF	LDT2	2.3760e-003	1.8152e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003
tblVehicleEF	LDT2	1.9770e-003	1.6777e-003
tblVehicleEF	LDT2	2.1840e-003	1.6691e-003
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02

tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	3.6280e-003	3.2090e-003
tblVehicleEF	LDT2	7.7500e-004	6.5178e-004
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.10	0.13
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.06
tblVehicleEF	LDT2	0.09	0.32
tblVehicleEF	LHD1	5.2860e-003	5.3646e-003
tblVehicleEF	LHD1	0.01	4.9911e-003
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tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.75	0.57
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.98
tblVehicleEF	LHD1	32.17	12.06
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.86	0.55
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004

tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.30	0.19
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
tblVehicleEF	LHD1	5.8400e-003	6.3743e-003
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tblVehicleEF	LHD1	2.9730e-003	2.3517e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8290e-003	1.4551e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.30	0.19
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.2860e-003	5.3761e-003
tblVehicleEF	LHD1	0.01	5.0878e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.76	0.58

tblVehicleEF	LHD1	2.46	1.03
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	653.00
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tblVehicleEF	LHD1	0.81	0.52
tblVehicleEF	LHD1	0.91	0.30
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003
tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
tblVehicleEF	LHD1	0.06	0.05
tblVehicleEF	LHD1	0.29	0.18
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
tblVehicleEF	LHD1	5.8400e-003	6.3745e-003
tblVehicleEF	LHD1	3.6700e-004	1.1848e-004

tblVehicleEF	LHD1	4.4450e-003	3.4572e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	2.5600e-003	2.0042e-003
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tblVehicleEF	LHD1	0.29	0.18
tblVehicleEF	LHD1	0.26	0.08
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tblVehicleEF	LHD1	0.01	4.9647e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	0.74	0.56
tblVehicleEF	LHD1	2.59	1.09
tblVehicleEF	LHD1	8.94	8.81
tblVehicleEF	LHD1	595.21	652.97
tblVehicleEF	LHD1	32.17	12.07
tblVehicleEF	LHD1	0.07	0.05
tblVehicleEF	LHD1	0.85	0.54
tblVehicleEF	LHD1	0.95	0.32
tblVehicleEF	LHD1	8.3300e-004	7.8359e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7291e-003
tblVehicleEF	LHD1	8.8370e-003	5.9884e-003
tblVehicleEF	LHD1	9.4800e-004	2.6819e-004
tblVehicleEF	LHD1	7.9700e-004	7.4969e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5350e-003	2.4323e-003

tblVehicleEF	LHD1	8.4300e-003	5.7009e-003
tblVehicleEF	LHD1	8.7200e-004	2.4659e-004
tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.06	0.04
tblVehicleEF	LHD1	0.32	0.20
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.5604e-005
tblVehicleEF	LHD1	5.8400e-003	6.3742e-003
tblVehicleEF	LHD1	3.7000e-004	1.1947e-004
tblVehicleEF	LHD1	3.1110e-003	2.4634e-003
tblVehicleEF	LHD1	0.11	0.09
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7990e-003	1.4332e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.20
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.7460e-003	3.7399e-003
tblVehicleEF	LHD2	3.7700e-003	3.5361e-003
tblVehicleEF	LHD2	7.4580e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.26	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07

tblVehicleEF	LHD2	26.97	9.22
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.55	0.71
tblVehicleEF	LHD2	0.50	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
tblVehicleEF	LHD2	4.0500e-004	1.3978e-004
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003
tblVehicleEF	LHD2	2.9200e-004	9.1193e-005
tblVehicleEF	LHD2	1.0290e-003	1.4322e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	6.8900e-004	9.0786e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7479e-003
tblVehicleEF	LHD2	3.8180e-003	3.5743e-003
tblVehicleEF	LHD2	7.2080e-003	9.7971e-003
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.39
tblVehicleEF	LHD2	1.20	0.69
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.07
tblVehicleEF	LHD2	26.97	9.16
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.52	0.67
tblVehicleEF	LHD2	0.49	0.21
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
tblVehicleEF	LHD2	4.0500e-004	1.3978e-004
tblVehicleEF	LHD2	1.5320e-003	2.1079e-003

tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3287e-003
tblVehicleEF	LHD2	2.9100e-004	9.0638e-005
tblVehicleEF	LHD2	1.5320e-003	2.1079e-003
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	9.5700e-004	1.2531e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.07	0.11
tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	LHD2	3.7460e-003	3.7382e-003
tblVehicleEF	LHD2	3.7580e-003	3.5259e-003
tblVehicleEF	LHD2	7.5080e-003	0.01
tblVehicleEF	LHD2	0.13	0.15
tblVehicleEF	LHD2	0.31	0.38
tblVehicleEF	LHD2	1.27	0.72
tblVehicleEF	LHD2	13.57	13.36
tblVehicleEF	LHD2	610.80	654.06
tblVehicleEF	LHD2	26.97	9.23
tblVehicleEF	LHD2	0.09	0.08
tblVehicleEF	LHD2	0.54	0.69

tblVehicleEF	LHD2	0.51	0.22
tblVehicleEF	LHD2	1.1440e-003	1.2759e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.4330e-003	9.6266e-003
tblVehicleEF	LHD2	4.4100e-004	1.5202e-004
tblVehicleEF	LHD2	1.0950e-003	1.2207e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6630e-003	2.6428e-003
tblVehicleEF	LHD2	8.0540e-003	9.1939e-003
tblVehicleEF	LHD2	4.0500e-004	1.3978e-004
tblVehicleEF	LHD2	1.0410e-003	1.4722e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	0.08	0.12
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	1.3300e-004	1.2803e-004
tblVehicleEF	LHD2	5.9490e-003	6.3286e-003
tblVehicleEF	LHD2	2.9200e-004	9.1296e-005
tblVehicleEF	LHD2	1.0410e-003	1.4722e-003
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.6600e-004	8.7944e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.12

tblVehicleEF	LHD2	0.11	0.05
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.23
tblVehicleEF	MCY	18.72	18.86
tblVehicleEF	MCY	9.68	8.54
tblVehicleEF	MCY	189.29	223.65
tblVehicleEF	MCY	44.13	59.21
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	2.58	2.60
tblVehicleEF	MCY	0.58	0.55
tblVehicleEF	MCY	2.04	1.80
tblVehicleEF	MCY	2.2780e-003	2.2132e-003
tblVehicleEF	MCY	6.5900e-004	5.8591e-004
tblVehicleEF	MCY	1.06	1.07
tblVehicleEF	MCY	0.62	0.64

tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	3.22	3.23
tblVehicleEF	MCY	0.58	0.55
tblVehicleEF	MCY	2.22	1.96
tblVehicleEF	MCY	0.53	0.37
tblVehicleEF	MCY	0.13	0.21
tblVehicleEF	MCY	18.05	18.15
tblVehicleEF	MCY	8.84	7.77
tblVehicleEF	MCY	189.29	222.30
tblVehicleEF	MCY	44.13	57.32
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	2.52	2.54
tblVehicleEF	MCY	0.54	0.51
tblVehicleEF	MCY	1.82	1.60
tblVehicleEF	MCY	2.2650e-003	2.1999e-003

tblVehicleEF	MCY	6.3900e-004	5.6721e-004
tblVehicleEF	MCY	1.72	1.71
tblVehicleEF	MCY	0.68	0.69
tblVehicleEF	MCY	1.06	1.05
tblVehicleEF	MCY	3.15	3.16
tblVehicleEF	MCY	0.54	0.51
tblVehicleEF	MCY	1.98	1.74
tblVehicleEF	MCY	0.54	0.38
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.82	19.00
tblVehicleEF	MCY	9.83	8.69
tblVehicleEF	MCY	189.29	223.92
tblVehicleEF	MCY	44.13	59.59
tblVehicleEF	MCY	1.10	1.10
tblVehicleEF	MCY	0.31	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.4730e-003	2.4798e-003
tblVehicleEF	MCY	3.6800e-003	3.1545e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	2.3100e-003	2.3160e-003
tblVehicleEF	MCY	3.4590e-003	2.9646e-003
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	2.59	2.61

tblVehicleEF	MCY	0.67	0.63
tblVehicleEF	MCY	2.08	1.85
tblVehicleEF	MCY	2.2800e-003	2.2159e-003
tblVehicleEF	MCY	6.6300e-004	5.8968e-004
tblVehicleEF	MCY	1.15	1.17
tblVehicleEF	MCY	0.80	0.82
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	3.23	3.25
tblVehicleEF	MCY	0.67	0.63
tblVehicleEF	MCY	2.26	2.01
tblVehicleEF	MDV	0.01	5.6774e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.21	1.09
tblVehicleEF	MDV	2.22	2.92
tblVehicleEF	MDV	495.22	403.78
tblVehicleEF	MDV	99.91	79.83
tblVehicleEF	MDV	0.13	0.10
tblVehicleEF	MDV	0.19	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08

tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.17	0.36
tblVehicleEF	MDV	4.9590e-003	3.9917e-003
tblVehicleEF	MDV	1.0380e-003	7.9003e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.15	0.13
tblVehicleEF	MDV	0.07	0.09
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	0.09	0.06
tblVehicleEF	MDV	0.18	0.39
tblVehicleEF	MDV	0.01	6.0286e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.32	1.19
tblVehicleEF	MDV	1.90	2.49
tblVehicleEF	MDV	516.89	415.58
tblVehicleEF	MDV	99.91	79.02
tblVehicleEF	MDV	0.11	0.08
tblVehicleEF	MDV	0.18	0.29
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003
tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003

tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.15	0.32
tblVehicleEF	MDV	5.1770e-003	4.1085e-003
tblVehicleEF	MDV	1.0320e-003	7.8192e-004
tblVehicleEF	MDV	0.10	0.12
tblVehicleEF	MDV	0.15	0.14
tblVehicleEF	MDV	0.09	0.12
tblVehicleEF	MDV	0.05	0.04
tblVehicleEF	MDV	0.08	0.05
tblVehicleEF	MDV	0.16	0.35
tblVehicleEF	MDV	0.01	5.5643e-003
tblVehicleEF	MDV	0.01	0.08
tblVehicleEF	MDV	1.17	1.05
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tblVehicleEF	MDV	487.26	399.41
tblVehicleEF	MDV	99.91	80.02
tblVehicleEF	MDV	0.13	0.09
tblVehicleEF	MDV	0.20	0.31
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	2.2990e-003	1.9552e-003

tblVehicleEF	MDV	2.4650e-003	1.9340e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	2.1190e-003	1.8024e-003
tblVehicleEF	MDV	2.2660e-003	1.7785e-003
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.17	0.37
tblVehicleEF	MDV	4.8790e-003	3.9485e-003
tblVehicleEF	MDV	1.0390e-003	7.9190e-004
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.08
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.06
tblVehicleEF	MDV	0.19	0.40
tblVehicleEF	MH	0.02	8.6582e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.76	0.97
tblVehicleEF	MH	5.23	2.03
tblVehicleEF	MH	1,125.05	1,475.23
tblVehicleEF	MH	59.88	18.84
tblVehicleEF	MH	1.00	1.04
tblVehicleEF	MH	0.75	0.25

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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	0.84	0.73
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.36	0.31
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9000e-004	1.8641e-004
tblVehicleEF	MH	0.84	0.73
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.36	0.31
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.02	8.8559e-003
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tblVehicleEF	MH	1,125.05	1,475.27

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tblVehicleEF	MH	0.71	0.24
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	1.24	1.04
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.51	0.43
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.29	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.8400e-004	1.8454e-004
tblVehicleEF	MH	1.24	1.04
tblVehicleEF	MH	0.06	0.05
tblVehicleEF	MH	0.51	0.43
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.31	0.10
tblVehicleEF	MH	0.02	8.6008e-003
tblVehicleEF	MH	0.02	0.02

tblVehicleEF	MH	1.75	0.96
tblVehicleEF	MH	5.28	2.06
tblVehicleEF	MH	1,125.05	1,475.22
tblVehicleEF	MH	59.88	18.88
tblVehicleEF	MH	0.98	1.02
tblVehicleEF	MH	0.75	0.25
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0430e-003	2.6718e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2050e-003	3.2515e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.5900e-004	2.4566e-004
tblVehicleEF	MH	0.95	0.82
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.37	0.32
tblVehicleEF	MH	0.07	0.05
tblVehicleEF	MH	0.02	0.01
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.9000e-004	1.8679e-004
tblVehicleEF	MH	0.95	0.82
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.37	0.32
tblVehicleEF	MH	0.10	0.07
tblVehicleEF	MH	0.02	0.01

tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MHD	0.02	4.4297e-003
tblVehicleEF	MHD	3.8910e-003	2.0984e-003
tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.36	0.40
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.63	1.37
tblVehicleEF	MHD	130.55	64.71
tblVehicleEF	MHD	1,141.08	1,031.14
tblVehicleEF	MHD	62.84	12.06
tblVehicleEF	MHD	0.35	0.35
tblVehicleEF	MHD	0.76	1.08
tblVehicleEF	MHD	9.98	1.58
tblVehicleEF	MHD	1.0200e-004	3.2629e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	9.7000e-005	3.1218e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004
tblVehicleEF	MHD	1.0540e-003	6.2271e-004
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	7.0500e-004	4.1013e-004

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.34	0.06
tblVehicleEF	MHD	1.2580e-003	6.1463e-004
tblVehicleEF	MHD	0.01	9.8543e-003
tblVehicleEF	MHD	7.2700e-004	1.1932e-004
tblVehicleEF	MHD	1.0540e-003	6.2271e-004
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	7.0500e-004	4.1013e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	MHD	0.01	4.2036e-003
tblVehicleEF	MHD	3.9490e-003	2.1413e-003
tblVehicleEF	MHD	0.04	0.01
tblVehicleEF	MHD	0.26	0.34
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.34	1.31
tblVehicleEF	MHD	138.27	64.79
tblVehicleEF	MHD	1,141.08	1,031.15
tblVehicleEF	MHD	62.84	11.94
tblVehicleEF	MHD	0.36	0.34
tblVehicleEF	MHD	0.71	1.02
tblVehicleEF	MHD	9.94	1.58
tblVehicleEF	MHD	8.6000e-005	2.7779e-004
tblVehicleEF	MHD	0.13	0.13

tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	8.2000e-005	2.6577e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004
tblVehicleEF	MHD	1.5770e-003	9.2474e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.06
tblVehicleEF	MHD	1.3310e-003	6.1548e-004
tblVehicleEF	MHD	0.01	9.8544e-003
tblVehicleEF	MHD	7.2200e-004	1.1815e-004
tblVehicleEF	MHD	1.5770e-003	9.2474e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.9000e-004	5.7330e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.36	0.07
tblVehicleEF	MHD	0.02	4.7556e-003
tblVehicleEF	MHD	3.8750e-003	2.0848e-003

tblVehicleEF	MHD	0.05	0.01
tblVehicleEF	MHD	0.50	0.49
tblVehicleEF	MHD	0.32	0.28
tblVehicleEF	MHD	5.68	1.39
tblVehicleEF	MHD	119.87	64.61
tblVehicleEF	MHD	1,141.08	1,031.14
tblVehicleEF	MHD	62.84	12.08
tblVehicleEF	MHD	0.33	0.36
tblVehicleEF	MHD	0.74	1.06
tblVehicleEF	MHD	9.99	1.58
tblVehicleEF	MHD	1.2400e-004	3.9328e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	2.8420e-003	6.1299e-003
tblVehicleEF	MHD	8.1400e-004	1.3466e-004
tblVehicleEF	MHD	1.1800e-004	3.7627e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.7140e-003	5.8582e-003
tblVehicleEF	MHD	7.4900e-004	1.2382e-004
tblVehicleEF	MHD	1.0750e-003	6.3847e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.8500e-004	3.9956e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.35	0.06

tblVehicleEF	MHD	1.1580e-003	6.1340e-004
tblVehicleEF	MHD	0.01	9.8543e-003
tblVehicleEF	MHD	7.2800e-004	1.1955e-004
tblVehicleEF	MHD	1.0750e-003	6.3847e-004
tblVehicleEF	MHD	0.05	0.03
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	6.8500e-004	3.9956e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	0.38	0.07
tblVehicleEF	OBUS	0.01	8.3144e-003
tblVehicleEF	OBUS	6.0280e-003	4.9407e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.61
tblVehicleEF	OBUS	0.45	0.61
tblVehicleEF	OBUS	5.18	2.34
tblVehicleEF	OBUS	101.82	90.25
tblVehicleEF	OBUS	1,246.68	1,357.87
tblVehicleEF	OBUS	67.80	19.02
tblVehicleEF	OBUS	0.22	0.35
tblVehicleEF	OBUS	0.69	1.16
tblVehicleEF	OBUS	2.52	0.84
tblVehicleEF	OBUS	2.0000e-005	1.1818e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
tblVehicleEF	OBUS	8.2900e-004	2.0001e-004

tblVehicleEF	OBUS	1.9000e-005	1.1307e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
tblVehicleEF	OBUS	7.6200e-004	1.8390e-004
tblVehicleEF	OBUS	1.4160e-003	1.8398e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.6700e-004	9.5046e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.32	0.11
tblVehicleEF	OBUS	9.8300e-004	8.5795e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6900e-004	1.8827e-004
tblVehicleEF	OBUS	1.4160e-003	1.8398e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.6700e-004	9.5046e-004
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.35	0.12
tblVehicleEF	OBUS	0.01	8.4017e-003
tblVehicleEF	OBUS	6.1370e-003	5.0478e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.61
tblVehicleEF	OBUS	0.45	0.63

tblVehicleEF	OBUS	4.89	2.21
tblVehicleEF	OBUS	106.89	89.21
tblVehicleEF	OBUS	1,246.68	1,357.89
tblVehicleEF	OBUS	67.80	18.81
tblVehicleEF	OBUS	0.22	0.33
tblVehicleEF	OBUS	0.64	1.09
tblVehicleEF	OBUS	2.49	0.83
tblVehicleEF	OBUS	1.7000e-005	1.0501e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
tblVehicleEF	OBUS	8.2900e-004	2.0001e-004
tblVehicleEF	OBUS	1.6000e-005	1.0047e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
tblVehicleEF	OBUS	7.6200e-004	1.8390e-004
tblVehicleEF	OBUS	2.0710e-003	2.6502e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0770e-003	1.3153e-003
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.31	0.11
tblVehicleEF	OBUS	1.0320e-003	8.4822e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6400e-004	1.8613e-004

tblVehicleEF	OBUS	2.0710e-003	2.6502e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.0770e-003	1.3153e-003
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.04	0.07
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	0.01	8.2137e-003
tblVehicleEF	OBUS	5.9990e-003	4.9102e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.62
tblVehicleEF	OBUS	0.45	0.61
tblVehicleEF	OBUS	5.23	2.37
tblVehicleEF	OBUS	94.83	91.67
tblVehicleEF	OBUS	1,246.68	1,357.87
tblVehicleEF	OBUS	67.80	19.07
tblVehicleEF	OBUS	0.21	0.37
tblVehicleEF	OBUS	0.68	1.14
tblVehicleEF	OBUS	2.53	0.84
tblVehicleEF	OBUS	2.4000e-005	1.3636e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6330e-003	7.0871e-003
tblVehicleEF	OBUS	8.2900e-004	2.0001e-004
tblVehicleEF	OBUS	2.3000e-005	1.3046e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003

tblVehicleEF	OBUS	2.5030e-003	6.7657e-003
tblVehicleEF	OBUS	7.6200e-004	1.8390e-004
tblVehicleEF	OBUS	1.4400e-003	1.9124e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	7.4400e-004	9.3077e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.33	0.11
tblVehicleEF	OBUS	9.1700e-004	8.7139e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.7000e-004	1.8872e-004
tblVehicleEF	OBUS	1.4400e-003	1.9124e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	7.4400e-004	9.3077e-004
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.36	0.12
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7075e-003
tblVehicleEF	SBUS	0.06	7.0645e-003
tblVehicleEF	SBUS	8.28	3.14
tblVehicleEF	SBUS	0.67	0.57
tblVehicleEF	SBUS	7.16	0.97
tblVehicleEF	SBUS	1,105.31	358.54
tblVehicleEF	SBUS	1,070.53	1,098.16

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tblVehicleEF	SBUS	8.50	3.03
tblVehicleEF	SBUS	3.81	4.38
tblVehicleEF	SBUS	11.84	0.95
tblVehicleEF	SBUS	8.1160e-003	3.5863e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	7.7650e-003	3.4312e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	3.3720e-003	1.0292e-003
tblVehicleEF	SBUS	0.03	8.9743e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.8240e-003	5.5949e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.38	0.04
tblVehicleEF	SBUS	0.01	3.3855e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8800e-004	5.9097e-005
tblVehicleEF	SBUS	3.3720e-003	1.0292e-003
tblVehicleEF	SBUS	0.03	8.9743e-003
tblVehicleEF	SBUS	1.43	0.52

tblVehicleEF	SBUS	1.8240e-003	5.5949e-004
tblVehicleEF	SBUS	0.12	0.10
tblVehicleEF	SBUS	0.01	0.02
tblVehicleEF	SBUS	0.41	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.7846e-003
tblVehicleEF	SBUS	0.05	6.3039e-003
tblVehicleEF	SBUS	8.18	3.11
tblVehicleEF	SBUS	0.68	0.58
tblVehicleEF	SBUS	5.81	0.79
tblVehicleEF	SBUS	1,154.44	365.54
tblVehicleEF	SBUS	1,070.53	1,098.18
tblVehicleEF	SBUS	56.44	5.68
tblVehicleEF	SBUS	8.77	3.09
tblVehicleEF	SBUS	3.59	4.13
tblVehicleEF	SBUS	11.81	0.95
tblVehicleEF	SBUS	6.8420e-003	3.0311e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	6.5460e-003	2.9000e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	4.9610e-003	1.4874e-003

tblVehicleEF	SBUS	0.03	9.1168e-003
tblVehicleEF	SBUS	0.98	0.36
tblVehicleEF	SBUS	2.5750e-003	7.7378e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.01	0.01
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tblVehicleEF	SBUS	6.6600e-004	5.6163e-005
tblVehicleEF	SBUS	4.9610e-003	1.4874e-003
tblVehicleEF	SBUS	0.03	9.1168e-003
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tblVehicleEF	SBUS	2.5750e-003	7.7378e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.37	0.04
tblVehicleEF	SBUS	0.84	0.08
tblVehicleEF	SBUS	0.01	6.6841e-003
tblVehicleEF	SBUS	0.06	7.2391e-003
tblVehicleEF	SBUS	8.43	3.19
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tblVehicleEF	SBUS	1,070.53	1,098.16
tblVehicleEF	SBUS	56.44	6.03
tblVehicleEF	SBUS	8.13	2.95
tblVehicleEF	SBUS	3.74	4.30

tblVehicleEF	SBUS	11.85	0.96
tblVehicleEF	SBUS	9.8760e-003	4.3531e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.5300e-004	6.0241e-005
tblVehicleEF	SBUS	9.4480e-003	4.1648e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6580e-003	2.6525e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	7.8400e-004	5.5389e-005
tblVehicleEF	SBUS	3.3940e-003	1.0334e-003
tblVehicleEF	SBUS	0.03	9.3494e-003
tblVehicleEF	SBUS	0.99	0.36
tblVehicleEF	SBUS	1.7490e-003	5.3556e-004
tblVehicleEF	SBUS	0.10	0.09
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.39	0.04
tblVehicleEF	SBUS	0.01	3.2934e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.9200e-004	5.9658e-005
tblVehicleEF	SBUS	3.3940e-003	1.0334e-003
tblVehicleEF	SBUS	0.03	9.3494e-003
tblVehicleEF	SBUS	1.43	0.52
tblVehicleEF	SBUS	1.7490e-003	5.3556e-004
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tblVehicleEF	SBUS	0.02	0.02

tblVehicleEF	SBUS	0.42	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.68	45.42
tblVehicleEF	UBUS	8.84	0.71
tblVehicleEF	UBUS	1,951.45	1,987.99
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tblVehicleEF	UBUS	9.33	0.47
tblVehicleEF	UBUS	15.09	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.1100e-003	5.4675e-004
tblVehicleEF	UBUS	0.07	7.4129e-003
tblVehicleEF	UBUS	2.4100e-003	4.3392e-004
tblVehicleEF	UBUS	0.79	0.09
tblVehicleEF	UBUS	0.02	1.8386e-003
tblVehicleEF	UBUS	0.68	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1630e-003	8.3318e-005
tblVehicleEF	UBUS	4.1100e-003	5.4675e-004
tblVehicleEF	UBUS	0.07	7.4129e-003

tblVehicleEF	UBUS	2.4100e-003	4.3392e-004
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tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	9.9367e-003
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tblVehicleEF	UBUS	1,951.45	1,987.99
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tblVehicleEF	UBUS	8.79	0.47
tblVehicleEF	UBUS	15.04	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	5.8640e-003	7.9323e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	0.80	0.09
tblVehicleEF	UBUS	0.02	1.6648e-003
tblVehicleEF	UBUS	0.63	0.04
tblVehicleEF	UBUS	9.8070e-003	1.4048e-003

tblVehicleEF	UBUS	1.1430e-003	8.1863e-005
tblVehicleEF	UBUS	5.8640e-003	7.9323e-004
tblVehicleEF	UBUS	0.07	7.6581e-003
tblVehicleEF	UBUS	3.3120e-003	5.9984e-004
tblVehicleEF	UBUS	3.33	5.97
tblVehicleEF	UBUS	0.02	1.6648e-003
tblVehicleEF	UBUS	0.69	0.05
tblVehicleEF	UBUS	2.44	5.85
tblVehicleEF	UBUS	0.05	0.01
tblVehicleEF	UBUS	10.66	45.42
tblVehicleEF	UBUS	9.05	0.73
tblVehicleEF	UBUS	1,951.45	1,987.99
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tblVehicleEF	UBUS	9.15	0.47
tblVehicleEF	UBUS	15.10	0.08
tblVehicleEF	UBUS	0.60	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.12	3.2067e-003
tblVehicleEF	UBUS	1.1360e-003	5.6569e-005
tblVehicleEF	UBUS	0.26	0.03
tblVehicleEF	UBUS	3.0000e-003	7.9689e-003
tblVehicleEF	UBUS	0.12	3.0642e-003
tblVehicleEF	UBUS	1.0450e-003	5.2013e-005
tblVehicleEF	UBUS	4.6290e-003	5.3736e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	0.79	0.09

tblVehicleEF	UBUS	0.03	2.2448e-003
tblVehicleEF	UBUS	0.70	0.05
tblVehicleEF	UBUS	9.8060e-003	1.4048e-003
tblVehicleEF	UBUS	1.1670e-003	8.3611e-005
tblVehicleEF	UBUS	4.6290e-003	5.3736e-004
tblVehicleEF	UBUS	0.08	7.9413e-003
tblVehicleEF	UBUS	2.5090e-003	4.1273e-004
tblVehicleEF	UBUS	3.31	5.97
tblVehicleEF	UBUS	0.03	2.2448e-003
tblVehicleEF	UBUS	0.76	0.05
tblVehicleTrips	ST_TR	6.39	4.97
tblVehicleTrips	SU_TR	5.86	4.55
tblVehicleTrips	WD_TR	6.65	5.17
tblWoodstoves	NumberCatalytic	13.25	0.00
tblWoodstoves	NumberNoncatalytic	13.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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					
2021	2.7404	27.0828	19.9272	0.0332	7.7718	1.4312	8.8242	4.0378	1.3358	5.0060	0.0000	3,193.7360	3,193.7360	0.8167	0.0000	3,214.1530
2022	2.2669	17.1917	17.4988	0.0303	0.0000	0.8097	0.8097	0.0000	0.7822	0.7822	0.0000	2,752.1214	2,752.1214	0.4793	0.0000	2,764.1048
2023	58.4967	16.1018	17.3402	0.0303	0.0000	0.7074	0.7074	0.0000	0.6831	0.6831	0.0000	2,752.4581	2,752.4581	0.5657	0.0000	2,764.1429
Maximum	**58.4967**	**27.0828**	**19.9272**	**0.0332**	**7.7718**	**1.4312**	**8.8242**	**4.0378**	**1.3358**	**5.0060**	**0.0000**	**3,193.7360**	**3,193.7360**	**0.8167**	**0.0000**	**3,214.1530**

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					
2021	2.7404	27.0828	19.9272	0.0332	3.0310	1.4312	4.0834	1.5747	1.3358	2.5429	0.0000	3,193.7360	3,193.7360	0.8167	0.0000	3,214.1529
2022	2.2669	17.1917	17.4988	0.0303	0.0000	0.8097	0.8097	0.0000	0.7822	0.7822	0.0000	2,752.1214	2,752.1214	0.4793	0.0000	2,764.1048
2023	58.4967	16.1018	17.3402	0.0303	0.0000	0.7074	0.7074	0.0000	0.6831	0.6831	0.0000	2,752.4581	2,752.4581	0.5657	0.0000	2,764.1429
Maximum	**58.4967**	**27.0828**	**19.9272**	**0.0332**	**3.0310**	**1.4312**	**4.0834**	**1.5747**	**1.3358**	**2.5429**	**0.0000**	**3,193.7360**	**3,193.7360**	**0.8167**	**0.0000**	**3,214.1529**

	ROG	NOx	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**	**61.00**	**0.00**	**45.84**	**61.00**	**0.00**	**38.06**	**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	6.4100	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211	0.0000	39.4265	39.4265	0.0380	0.0000	40.3769
Energy	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
Mobile	2.4118	6.0371	33.5798	0.0988	9.9130	0.0766	9.9895	2.6467	0.0713	2.7180		10,195.9852	10,195.9852	0.6462		10,212.1412
Stationary	3.8303	10.7054	9.7663	0.0184		0.5634	0.5634		0.5634	0.5634		1,959.4260	1,959.4260	0.2747		1,966.2938
Total	**12.7411**	**17.7555**	**65.5655**	**0.1233**	**9.9130**	**0.8226**	**10.7356**	**2.6467**	**0.8174**	**3.4641**	**0.0000**	**13,165.8652**	**13,165.8652**	**0.9776**	**0.0178**	**13,195.6096**

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	6.4100	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211	0.0000	39.4265	39.4265	0.0380	0.0000	40.3769
Energy	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
Mobile	2.4118	6.0371	33.5798	0.0988	9.9130	0.0766	9.9895	2.6467	0.0713	2.7180		10,195.9852	10,195.9852	0.6462		10,212.1412
Stationary	3.8303	10.7054	9.7663	0.0184		0.5634	0.5634		0.5634	0.5634		1,959.4260	1,959.4260	0.2747		1,966.2938
Total	**12.7411**	**17.7555**	**65.5655**	**0.1233**	**9.9130**	**0.8226**	**10.7356**	**2.6467**	**0.8174**	**3.4641**	**0.0000**	**13,165.8652**	**13,165.8652**	**0.9776**	**0.0178**	**13,195.6096**

	ROG	NOx	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

Gardena Transit-Oriented Development Specific Plan - Los Angeles-South Coast County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/16/2021	6	40	
2	Site Preparation	Site Preparation	8/17/2021	8/22/2021	6	5	
3	Grading	Grading	8/23/2021	9/2/2021	6	10	
4	Building Construction	Building Construction	9/3/2021	7/25/2023	6	592	
5	Architectural Coating	Architectural Coating	7/26/2023	8/28/2023	6	29	
6	Paving	Paving	8/29/2023	9/29/2023	6	28	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 3.75

Acres of Paving: 0

Residential Indoor: 536,625; Residential Outdoor: 178,875; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,600 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	11.00	81	0.73
Demolition	Rubber Tired Dozers	1	11.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	11.00	97	0.37
Site Preparation	Graders	1	11.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	9.63	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	11.00	97	0.37
Grading	Graders	1	8.25	187	0.41
Grading	Rubber Tired Dozers	1	8.25	247	0.40
Grading	Tractors/Loaders/Backhoes	1	9.63	97	0.37
Building Construction	Cranes	1	8.25	231	0.29
Building Construction	Forklifts	1	8.25	89	0.20
Building Construction	Generator Sets	1	11.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	8.25	97	0.37
Building Construction	Welders	3	11.00	46	0.45
Architectural Coating	Air Compressors	1	8.25	78	0.48
Paving	Cement and Mortar Mixers	1	8.25	9	0.56
Paving	Pavers	1	8.25	130	0.42
Paving	Paving Equipment	1	11.00	132	0.36
Paving	Rollers	1	9.63	80	0.38
Paving	Tractors/Loaders/Backhoes	1	11.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	0.00	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 - 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					
Fugitive Dust					0.5906	0.0000	0.5906	0.0894	0.0000	0.0894			0.0000			0.0000
Off-Road	2.7404	27.0828	19.9272	0.0332		1.4312	1.4312		1.3358	1.3358		3,193.7360	3,193.7360	0.8167		3,214.1530
Total	**2.7404**	**27.0828**	**19.9272**	**0.0332**	**0.5906**	**1.4312**	**2.0218**	**0.0894**	**1.3358**	**1.4252**		**3,193.7360**	**3,193.7360**	**0.8167**		**3,214.1530**

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2303	0.0000	0.2303	0.0349	0.0000	0.0349			0.0000			0.0000
Off-Road	2.7404	27.0828	19.9272	0.0332		1.4312	1.4312		1.3358	1.3358	0.0000	3,193.7360	3,193.7360	0.8167		3,214.1529
Total	**2.7404**	**27.0828**	**19.9272**	**0.0332**	**0.2303**	**1.4312**	**1.6616**	**0.0349**	**1.3358**	**1.3707**	**0.0000**	**3,193.7360**	**3,193.7360**	**0.8167**		**3,214.1529**

3.2 Demolition - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.3 Site Preparation - 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					
Fugitive Dust					7.7718	0.0000	7.7718	4.0378	0.0000	4.0378			0.0000			0.0000
Off-Road	2.1392	23.9529	10.3957	0.0236		1.0524	1.0524		0.9682	0.9682		2,291.4614	2,291.4614	0.7411		2,309.9890
Total	**2.1392**	**23.9529**	**10.3957**	**0.0236**	**7.7718**	**1.0524**	**8.8242**	**4.0378**	**0.9682**	**5.0060**		**2,291.4614**	**2,291.4614**	**0.7411**		**2,309.9890**

3.3 Site Preparation - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0310	0.0000	3.0310	1.5747	0.0000	1.5747			0.0000			0.0000
Off-Road	2.1392	23.9529	10.3957	0.0236		1.0524	1.0524		0.9682	0.9682	0.0000	2,291.4614	2,291.4614	0.7411		2,309.9890
Total	**2.1392**	**23.9529**	**10.3957**	**0.0236**	**3.0310**	**1.0524**	**4.0834**	**1.5747**	**0.9682**	**2.5429**	**0.0000**	**2,291.4614**	**2,291.4614**	**0.7411**		**2,309.9890**

3.3 Site Preparation - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.4 Grading - 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					
Fugitive Dust					6.6984	0.0000	6.6984	3.4703	0.0000	3.4703			0.0000			0.0000
Off-Road	1.7715	19.7048	8.7057	0.0194		0.8771	0.8771		0.8070	0.8070		1,876.9641	1,876.9641	0.6071		1,892.1403
Total	**1.7715**	**19.7048**	**8.7057**	**0.0194**	**6.6984**	**0.8771**	**7.5756**	**3.4703**	**0.8070**	**4.2773**		**1,876.9641**	**1,876.9641**	**0.6071**		**1,892.1403**

3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6124	0.0000	2.6124	1.3534	0.0000	1.3534			0.0000			0.0000
Off-Road	1.7715	19.7048	8.7057	0.0194		0.8771	0.8771		0.8070	0.8070	0.0000	1,876.9641	1,876.9641	0.6071		1,892.1403
Total	**1.7715**	**19.7048**	**8.7057**	**0.0194**	**2.6124**	**0.8771**	**3.4895**	**1.3534**	**0.8070**	**2.1604**	**0.0000**	**1,876.9641**	**1,876.9641**	**0.6071**		**1,892.1403**

3.4 Grading - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.5 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	2.4922	18.7496	17.7367	0.0303		0.9410	0.9410		0.9086	0.9086		2,751.6775	2,751.6775	0.4912		2,763.9586
Total	**2.4922**	**18.7496**	**17.7367**	**0.0303**		**0.9410**	**0.9410**		**0.9086**	**0.9086**		**2,751.6775**	**2,751.6775**	**0.4912**		**2,763.9586**

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4922	18.7496	17.7367	0.0303		0.9410	0.9410		0.9086	0.9086	0.0000	2,751.6775	2,751.6775	0.4912		2,763.9586
Total	**2.4922**	**18.7496**	**17.7367**	**0.0303**		**0.9410**	**0.9410**		**0.9086**	**0.9086**	**0.0000**	**2,751.6775**	**2,751.6775**	**0.4912**		**2,763.9586**

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2669	17.1917	17.4988	0.0303		0.8097	0.8097		0.7822	0.7822		2,752.1214	2,752.1214	0.4793		2,764.1048
Total	**2.2669**	**17.1917**	**17.4988**	**0.0303**		**0.8097**	**0.8097**		**0.7822**	**0.7822**		**2,752.1214**	**2,752.1214**	**0.4793**		**2,764.1048**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

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

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	2.2669	17.1917	17.4988	0.0303		0.8097	0.8097		0.7822	0.7822	0.0000	2,752.1214	2,752.1214	0.4793		2,764.1048
Total	**2.2669**	**17.1917**	**17.4988**	**0.0303**		**0.8097**	**0.8097**		**0.7822**	**0.7822**	**0.0000**	**2,752.1214**	**2,752.1214**	**0.4793**		**2,764.1048**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0945	16.1018	17.3402	0.0303		0.7074	0.7074		0.6831	0.6831		2,752.4581	2,752.4581	0.4674		2,764.1429
Total	**2.0945**	**16.1018**	**17.3402**	**0.0303**		**0.7074**	**0.7074**		**0.6831**	**0.6831**		**2,752.4581**	**2,752.4581**	**0.4674**		**2,764.1429**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

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

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	2.0945	16.1018	17.3402	0.0303		0.7074	0.7074		0.6831	0.6831	0.0000	2,752.4581	2,752.4581	0.4674		2,764.1429
Total	**2.0945**	**16.1018**	**17.3402**	**0.0303**		**0.7074**	**0.7074**		**0.6831**	**0.6831**	**0.0000**	**2,752.4581**	**2,752.4581**	**0.4674**		**2,764.1429**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	58.2332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2635	1.7916	2.4903	4.0900e-003		0.0974	0.0974		0.0974	0.0974		386.9911	386.9911	0.0232		387.5699
Total	**58.4967**	**1.7916**	**2.4903**	**4.0900e-003**		**0.0974**	**0.0974**		**0.0974**	**0.0974**		**386.9911**	**386.9911**	**0.0232**		**387.5699**

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

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

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	58.2332					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2635	1.7916	2.4903	4.0900e-003		0.0974	0.0974		0.0974	0.0974	0.0000	386.9911	386.9911	0.0232		387.5699
Total	**58.4967**	**1.7916**	**2.4903**	**4.0900e-003**		**0.0974**	**0.0974**		**0.0974**	**0.0974**	**0.0000**	**386.9911**	**386.9911**	**0.0232**		**387.5699**

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

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

3.7 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8863	8.5741	12.1033	0.0186		0.4241	0.4241		0.3914	0.3914		1,784.3210	1,784.3210	0.5657		1,798.4622
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8863**	**8.5741**	**12.1033**	**0.0186**		**0.4241**	**0.4241**		**0.3914**	**0.3914**		**1,784.3210**	**1,784.3210**	**0.5657**		**1,798.4622**

3.7 Paving - 2023

Unmitigated Construction Off-Site

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

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	0.8863	8.5741	12.1033	0.0186		0.4241	0.4241		0.3914	0.3914	0.0000	1,784.3210	1,784.3210	0.5657		1,798.4622
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.8863**	**8.5741**	**12.1033**	**0.0186**		**0.4241**	**0.4241**		**0.3914**	**0.3914**	**0.0000**	**1,784.3210**	**1,784.3210**	**0.5657**		**1,798.4622**

3.7 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	2.4118	6.0371	33.5798	0.0988	9.9130	0.0766	9.9895	2.6467	0.0713	2.7180		10,195.9852	10,195.9852	0.6462		10,212.1412
Unmitigated	2.4118	6.0371	33.5798	0.0988	9.9130	0.0766	9.9895	2.6467	0.0713	2.7180		10,195.9852	10,195.9852	0.6462		10,212.1412

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,370.05	1,317.05	1205.75	4,575,591	4,575,591
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	1,370.05	1,317.05	1,205.75	4,575,591	4,575,591

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Unenclosed Parking with	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.548537	0.062339	0.188526	0.118574	0.023741	0.006216	0.017891	0.025073	0.001420	0.001685	0.004487	0.000601	0.000907
Unenclosed Parking with Elevator	0.548537	0.062339	0.188526	0.118574	0.023741	0.006216	0.017891	0.025073	0.001420	0.001685	0.004487	0.000601	0.000907

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	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
NaturalGas Unmitigated	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978

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					
Apartments Mid Rise	8253.73	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0890**	**0.7606**	**0.3237**	**4.8600e-003**		**0.0615**	**0.0615**		**0.0615**	**0.0615**		**971.0275**	**971.0275**	**0.0186**	**0.0178**	**976.7978**

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					
Apartments Mid Rise	8.25373	0.0890	0.7606	0.3237	4.8600e-003		0.0615	0.0615		0.0615	0.0615		971.0275	971.0275	0.0186	0.0178	976.7978
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0890**	**0.7606**	**0.3237**	**4.8600e-003**		**0.0615**	**0.0615**		**0.0615**	**0.0615**		**971.0275**	**971.0275**	**0.0186**	**0.0178**	**976.7978**

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	6.4100	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211	0.0000	39.4265	39.4265	0.0380	0.0000	40.3769
Unmitigated	6.4100	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211	0.0000	39.4265	39.4265	0.0380	0.0000	40.3769

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	0.4627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.2860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6614	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211		39.4265	39.4265	0.0380		40.3769
Total	**6.4100**	**0.2523**	**21.8958**	**1.1600e-003**		**0.1211**	**0.1211**		**0.1211**	**0.1211**	**0.0000**	**39.4265**	**39.4265**	**0.0380**	**0.0000**	**40.3769**

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	0.4627					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.2860					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.6614	0.2523	21.8958	1.1600e-003		0.1211	0.1211		0.1211	0.1211		39.4265	39.4265	0.0380		40.3769
Total	**6.4100**	**0.2523**	**21.8958**	**1.1600e-003**		**0.1211**	**0.1211**		**0.1211**	**0.1211**	**0.0000**	**39.4265**	**39.4265**	**0.0380**	**0.0000**	**40.3769**

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
Emergency Generator	1	6	50	389	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	3.8303	10.7054	9.7663	0.0184		0.5634	0.5634		0.5634	0.5634		1,959.4260	1,959.4260	0.2747		1,966.2938
Total	**3.8303**	**10.7054**	**9.7663**	**0.0184**		**0.5634**	**0.5634**		**0.5634**	**0.5634**		**1,959.4260**	**1,959.4260**	**0.2747**		**1,966.2938**

11.0 Vegetation

APPENDIX B
CONSTRUCTION ON-ROAD EMISSIONS TABLES

Table B-1. Summary of Annual and Daily Criteria Air Pollutant Emissions
Gardena TOD Specific Plan
Gardena, California

Construction Phase	Year	On-road Activity	Annual Emissions (lbs/year)	Pollutant	Days	Daily Emissions (lbs/day)
Architectural Coating	2023	Worker	49.79	CO	29	1.72
Architectural Coating	2023	Worker	3.40	NOx	29	0.12
Architectural Coating	2023	Worker	2.07	PM10	29	0.07
Architectural Coating	2023	Worker	0.87	PM25	29	0.03
Architectural Coating	2023	Worker	4.91	ROG	29	0.17
Architectural Coating	2023	Worker	0.13	SO2	29	0.00
Architectural Coating	2023	Worker_Fugitive Dust	13.24	PM10	29	0.46
Architectural Coating	2023	Worker_Fugitive Dust	3.25	PM25	29	0.11
Building Construction	2021	Vendor	94.02	CO	103	0.91
Building Construction	2021	Vendor	286.04	NOx	103	2.78
Building Construction	2021	Vendor	12.67	PM10	103	0.12
Building Construction	2021	Vendor	7.27	PM25	103	0.07
Building Construction	2021	Vendor	13.19	ROG	103	0.13
Building Construction	2021	Vendor	0.94	SO2	103	0.01
Building Construction	2021	Vendor_Fugitive Dust	21.61	PM10	103	0.21
Building Construction	2021	Vendor_Fugitive Dust	5.30	PM25	103	0.05
Building Construction	2021	Worker	1060.92	CO	103	10.30
Building Construction	2021	Worker	78.58	NOx	103	0.76
Building Construction	2021	Worker	37.26	PM10	103	0.36
Building Construction	2021	Worker	15.75	PM25	103	0.15
Building Construction	2021	Worker	102.61	ROG	103	1.00
Building Construction	2021	Worker	2.56	SO2	103	0.02
Building Construction	2021	Worker_Fugitive Dust	237.21	PM10	103	2.30
Building Construction	2021	Worker_Fugitive Dust	58.23	PM25	103	0.57
Building Construction	2022	Vendor	249.32	CO	313	0.80
Building Construction	2022	Vendor	738.21	NOx	313	2.36
Building Construction	2022	Vendor	32.84	PM10	313	0.10
Building Construction	2022	Vendor	16.67	PM25	313	0.05
Building Construction	2022	Vendor	28.66	ROG	313	0.09
Building Construction	2022	Vendor	2.79	SO2	313	0.01
Building Construction	2022	Vendor_Fugitive Dust	65.67	PM10	313	0.21
Building Construction	2022	Vendor_Fugitive Dust	16.12	PM25	313	0.05
Building Construction	2022	Worker	2947.34	CO	313	9.42
Building Construction	2022	Worker	209.74	NOx	313	0.67
Building Construction	2022	Worker	112.85	PM10	313	0.36
Building Construction	2022	Worker	47.53	PM25	313	0.15
Building Construction	2022	Worker	288.17	ROG	313	0.92
Building Construction	2022	Worker	7.52	SO2	313	0.02
Building Construction	2022	Worker_Fugitive Dust	720.86	PM10	313	2.30
Building Construction	2022	Worker_Fugitive Dust	176.94	PM25	313	0.57

Table B-1. Summary of Annual and Daily Criteria Air Pollutant Emissions
Gardena TOD Specific Plan
Gardena, California

Construction Phase	Year	On-road Activity	Annual Emissions (lbs/year)	Pollutant	Days	Daily Emissions (lbs/day)
Building Construction	2023	Vendor	123.76	CO	176	0.70
Building Construction	2023	Vendor	326.37	NOx	176	1.85
Building Construction	2023	Vendor	16.27	PM10	176	0.09
Building Construction	2023	Vendor	7.27	PM25	176	0.04
Building Construction	2023	Vendor	9.52	ROG	176	0.05
Building Construction	2023	Vendor	1.49	SO2	176	0.01
Building Construction	2023	Vendor_Fugitive Dust	36.93	PM10	176	0.21
Building Construction	2023	Vendor_Fugitive Dust	9.06	PM25	176	0.05
Building Construction	2023	Worker	1523.85	CO	176	8.66
Building Construction	2023	Worker	104.13	NOx	176	0.59
Building Construction	2023	Worker	63.28	PM10	176	0.36
Building Construction	2023	Worker	26.56	PM25	176	0.15
Building Construction	2023	Worker	150.35	ROG	176	0.85
Building Construction	2023	Worker	4.09	SO2	176	0.02
Building Construction	2023	Worker_Fugitive Dust	405.34	PM10	176	2.30
Building Construction	2023	Worker_Fugitive Dust	99.49	PM25	176	0.57
Demolition	2021	Hauling	4.90	CO	40	0.12
Demolition	2021	Hauling	22.03	NOx	40	0.55
Demolition	2021	Hauling	0.71	PM10	40	0.02
Demolition	2021	Hauling	0.40	PM25	40	0.01
Demolition	2021	Hauling	0.72	ROG	40	0.02
Demolition	2021	Hauling	0.07	SO2	40	0.00
Demolition	2021	Hauling_Fugitive Dust	1.44	PM10	40	0.04
Demolition	2021	Hauling_Fugitive Dust	0.35	PM25	40	0.01
Demolition	2021	Worker	22.60	CO	40	0.56
Demolition	2021	Worker	1.67	NOx	40	0.04
Demolition	2021	Worker	0.79	PM10	40	0.02
Demolition	2021	Worker	0.34	PM25	40	0.01
Demolition	2021	Worker	2.19	ROG	40	0.05
Demolition	2021	Worker	0.05	SO2	40	0.00
Demolition	2021	Worker_Fugitive Dust	5.05	PM10	40	0.13
Demolition	2021	Worker_Fugitive Dust	1.24	PM25	40	0.03
Grading	2021	Hauling	44.97	CO	10	4.50
Grading	2021	Hauling	202.08	NOx	10	20.21
Grading	2021	Hauling	6.48	PM10	10	0.65
Grading	2021	Hauling	3.67	PM25	10	0.37
Grading	2021	Hauling	6.63	ROG	10	0.66
Grading	2021	Hauling	0.64	SO2	10	0.06
Grading	2021	Hauling_Fugitive Dust	13.22	PM10	10	1.32
Grading	2021	Hauling_Fugitive Dust	3.25	PM25	10	0.32

Table B-1. Summary of Annual and Daily Criteria Air Pollutant Emissions
Gardena TOD Specific Plan
Gardena, California

Construction Phase	Year	On-road Activity	Annual Emissions (lbs/year)	Pollutant	Days	Daily Emissions (lbs/day)
Grading	2021	Worker	3.48	CO	10	0.35
Grading	2021	Worker	0.26	NOx	10	0.03
Grading	2021	Worker	0.12	PM10	10	0.01
Grading	2021	Worker	0.05	PM25	10	0.01
Grading	2021	Worker	0.34	ROG	10	0.03
Grading	2021	Worker	0.01	SO2	10	0.00
Grading	2021	Worker_Fugitive Dust	0.78	PM10	10	0.08
Grading	2021	Worker_Fugitive Dust	0.19	PM25	10	0.02
Paving	2023	Worker	13.30	CO	28	0.47
Paving	2023	Worker	0.91	NOx	28	0.03
Paving	2023	Worker	0.55	PM10	28	0.02
Paving	2023	Worker	0.23	PM25	28	0.01
Paving	2023	Worker	1.31	ROG	28	0.05
Paving	2023	Worker	0.04	SO2	28	0.00
Paving	2023	Worker_Fugitive Dust	3.54	PM10	28	0.13
Paving	2023	Worker_Fugitive Dust	0.87	PM25	28	0.03
Site Preparation	2021	Worker	1.74	CO	5	0.35
Site Preparation	2021	Worker	0.13	NOx	5	0.03
Site Preparation	2021	Worker	0.06	PM10	5	0.01
Site Preparation	2021	Worker	0.03	PM25	5	0.01
Site Preparation	2021	Worker	0.17	ROG	5	0.03
Site Preparation	2021	Worker_Fugitive Dust	0.39	PM10	5	0.08
Site Preparation	2021	Worker_Fugitive Dust	0.10	PM25	5	0.02

Abbreviations:
CO - carbon monoxide
lb - pound
NO_x - nitrogen oxides
PM_{10} - particulate matter less than 10 microns in diameter
$PM_{2.5}$ - particulate matter less than 2.5 microns in diameter
ROG - reactive organic gases
SO_2 - sulfur dioxide

Table B-2. Summary of On-Road Construction Trip Emission Factors
Gardena TOD Specific Plan
Gardena, California

Year	Fleet Mix	On-road Emission Factor	Units	Type	Pollutant
2021	LD_Mix	1.27E-01	g/trip	DIURN	ROG
2021	LD_Mix	1.55E-01	g/trip	HTSK	ROG
2021	LD_Mix	3.68E-02	g/mile	PMBW	PM10
2021	LD_Mix	1.58E-02	g/mile	PMBW	PM25
2021	LD_Mix	8.00E-03	g/mile	PMTW	PM10
2021	LD_Mix	2.00E-03	g/mile	PMTW	PM25
2021	LD_Mix	1.04E-01	g/trip	RESTL	ROG
2021	LD_Mix	1.18E+00	g/mile	RUNEX	CO
2021	LD_Mix	8.24E-02	g/mile	RUNEX	NOx
2021	LD_Mix	2.20E-03	g/mile	RUNEX	PM10
2021	LD_Mix	2.03E-03	g/mile	RUNEX	PM25
2021	LD_Mix	2.41E-02	g/mile	RUNEX	ROG
2021	LD_Mix	3.19E-03	g/mile	RUNEX	SO2
2021	LD_Mix	5.78E-02	g/mile	RUNLS	ROG
2021	LD_Mix	2.44E+00	g/trip	STREX	CO
2021	LD_Mix	2.49E-01	g/trip	STREX	NOx
2021	LD_Mix	2.18E-03	g/trip	STREX	PM10
2021	LD_Mix	2.00E-03	g/trip	STREX	PM25
2021	LD_Mix	3.16E-01	g/trip	STREX	ROG
2021	LD_Mix	6.10E-04	g/trip	STREX	SO2
2022	LD_Mix	1.17E-01	g/trip	DIURN	ROG
2022	LD_Mix	1.44E-01	g/trip	HTSK	ROG
2022	LD_Mix	3.68E-02	g/mile	PMBW	PM10
2022	LD_Mix	1.58E-02	g/mile	PMBW	PM25
2022	LD_Mix	8.00E-03	g/mile	PMTW	PM10
2022	LD_Mix	2.00E-03	g/mile	PMTW	PM25
2022	LD_Mix	9.74E-02	g/trip	RESTL	ROG
2022	LD_Mix	1.07E+00	g/mile	RUNEX	CO
2022	LD_Mix	7.17E-02	g/mile	RUNEX	NOx
2022	LD_Mix	2.05E-03	g/mile	RUNEX	PM10
2022	LD_Mix	1.89E-03	g/mile	RUNEX	PM25
2022	LD_Mix	2.08E-02	g/mile	RUNEX	ROG
2022	LD_Mix	3.09E-03	g/mile	RUNEX	SO2
2022	LD_Mix	5.52E-02	g/mile	RUNLS	ROG
2022	LD_Mix	2.35E+00	g/trip	STREX	CO
2022	LD_Mix	2.29E-01	g/trip	STREX	NOx
2022	LD_Mix	2.05E-03	g/trip	STREX	PM10
2022	LD_Mix	1.88E-03	g/trip	STREX	PM25
2022	LD_Mix	2.86E-01	g/trip	STREX	ROG
2022	LD_Mix	5.90E-04	g/trip	STREX	SO2
2023	LD_Mix	1.09E-01	g/trip	DIURN	ROG
2023	LD_Mix	1.33E-01	g/trip	HTSK	ROG
2023	LD_Mix	3.67E-02	g/mile	PMBW	PM10
2023	LD_Mix	1.57E-02	g/mile	PMBW	PM25
2023	LD_Mix	8.00E-03	g/mile	PMTW	PM10
2023	LD_Mix	2.00E-03	g/mile	PMTW	PM25
2023	LD_Mix	9.12E-02	g/trip	RESTL	ROG
2023	LD_Mix	9.73E-01	g/mile	RUNEX	CO

Table B-2. Summary of On-Road Construction Trip Emission Factors
Gardena TOD Specific Plan
Gardena, California

Year	Fleet Mix	On-road Emission Factor	Units	Type	Pollutant
2023	LD_Mix	6.27E-02	g/mile	RUNEX	NOx
2023	LD_Mix	1.93E-03	g/mile	RUNEX	PM10
2023	LD_Mix	1.78E-03	g/mile	RUNEX	PM25
2023	LD_Mix	1.80E-02	g/mile	RUNEX	ROG
2023	LD_Mix	2.99E-03	g/mile	RUNEX	SO2
2023	LD_Mix	5.29E-02	g/mile	RUNLS	ROG
2023	LD_Mix	2.27E+00	g/trip	STREX	CO
2023	LD_Mix	2.11E-01	g/trip	STREX	NOx
2023	LD_Mix	1.94E-03	g/trip	STREX	PM10
2023	LD_Mix	1.78E-03	g/trip	STREX	PM25
2023	LD_Mix	2.59E-01	g/trip	STREX	ROG
2023	LD_Mix	5.71E-04	g/trip	STREX	SO2
2021	MHDT/HHDT	5.50E-04	g/trip	DIURN	ROG
2021	MHDT/HHDT	1.59E-02	g/trip	HTSK	ROG
2021	MHDT/HHDT	3.31E+00	g/trip	IDLEX	CO
2021	MHDT/HHDT	3.58E+00	g/trip	IDLEX	NOx
2021	MHDT/HHDT	6.19E-03	g/trip	IDLEX	PM10
2021	MHDT/HHDT	5.92E-03	g/trip	IDLEX	PM25
2021	MHDT/HHDT	2.51E-01	g/trip	IDLEX	ROG
2021	MHDT/HHDT	5.72E-03	g/trip	IDLEX	SO2
2021	MHDT/HHDT	9.57E-02	g/mile	PMBW	PM10
2021	MHDT/HHDT	4.10E-02	g/mile	PMBW	PM25
2021	MHDT/HHDT	2.38E-02	g/mile	PMTW	PM10
2021	MHDT/HHDT	5.95E-03	g/mile	PMTW	PM25
2021	MHDT/HHDT	3.29E-04	g/trip	RESTL	ROG
2021	MHDT/HHDT	7.13E-01	g/mile	RUNEX	CO
2021	MHDT/HHDT	3.23E+00	g/mile	RUNEX	NOx
2021	MHDT/HHDT	5.54E-02	g/mile	RUNEX	PM10
2021	MHDT/HHDT	5.30E-02	g/mile	RUNEX	PM25
2021	MHDT/HHDT	1.23E-01	g/mile	RUNEX	ROG
2021	MHDT/HHDT	1.22E-02	g/mile	RUNEX	SO2
2021	MHDT/HHDT	1.63E-02	g/mile	RUNLS	ROG
2021	MHDT/HHDT	7.73E-01	g/trip	STREX	CO
2021	MHDT/HHDT	1.49E+00	g/trip	STREX	NOx
2021	MHDT/HHDT	7.33E-05	g/trip	STREX	PM10
2021	MHDT/HHDT	6.74E-05	g/trip	STREX	PM25
2021	MHDT/HHDT	3.53E-02	g/trip	STREX	ROG
2021	MHDT/HHDT	6.22E-05	g/trip	STREX	SO2
2022	MHDT/HHDT	5.02E-04	g/trip	DIURN	ROG
2022	MHDT/HHDT	1.49E-02	g/trip	HTSK	ROG
2022	MHDT/HHDT	3.46E+00	g/trip	IDLEX	CO
2022	MHDT/HHDT	3.53E+00	g/trip	IDLEX	NOx
2022	MHDT/HHDT	2.96E-03	g/trip	IDLEX	PM10
2022	MHDT/HHDT	2.83E-03	g/trip	IDLEX	PM25
2022	MHDT/HHDT	2.49E-01	g/trip	IDLEX	ROG
2022	MHDT/HHDT	5.80E-03	g/trip	IDLEX	SO2
2022	MHDT/HHDT	9.57E-02	g/mile	PMBW	PM10
2022	MHDT/HHDT	4.10E-02	g/mile	PMBW	PM25

Table B-2. Summary of On-Road Construction Trip Emission Factors
Gardena TOD Specific Plan
Gardena, California

Year	Fleet Mix	On-road Emission Factor	Units	Type	Pollutant
2022	MHDT/HHDT	2.38E-02	g/mile	PMTW	PM10
2022	MHDT/HHDT	5.95E-03	g/mile	PMTW	PM25
2022	MHDT/HHDT	3.06E-04	g/trip	RESTL	ROG
2022	MHDT/HHDT	5.32E-01	g/mile	RUNEX	CO
2022	MHDT/HHDT	2.62E+00	g/mile	RUNEX	NOx
2022	MHDT/HHDT	3.00E-02	g/mile	RUNEX	PM10
2022	MHDT/HHDT	2.87E-02	g/mile	RUNEX	PM25
2022	MHDT/HHDT	7.25E-02	g/mile	RUNEX	ROG
2022	MHDT/HHDT	1.19E-02	g/mile	RUNEX	SO2
2022	MHDT/HHDT	1.51E-02	g/mile	RUNLS	ROG
2022	MHDT/HHDT	7.30E-01	g/trip	STREX	CO
2022	MHDT/HHDT	1.68E+00	g/trip	STREX	NOx
2022	MHDT/HHDT	6.98E-05	g/trip	STREX	PM10
2022	MHDT/HHDT	6.42E-05	g/trip	STREX	PM25
2022	MHDT/HHDT	3.35E-02	g/trip	STREX	ROG
2022	MHDT/HHDT	6.08E-05	g/trip	STREX	SO2
2023	MHDT/HHDT	4.67E-04	g/trip	DIURN	ROG
2023	MHDT/HHDT	1.42E-02	g/trip	HTSK	ROG
2023	MHDT/HHDT	3.67E+00	g/trip	IDLEX	CO
2023	MHDT/HHDT	3.23E+00	g/trip	IDLEX	NOx
2023	MHDT/HHDT	2.08E-03	g/trip	IDLEX	PM10
2023	MHDT/HHDT	1.99E-03	g/trip	IDLEX	PM25
2023	MHDT/HHDT	2.51E-01	g/trip	IDLEX	ROG
2023	MHDT/HHDT	5.62E-03	g/trip	IDLEX	SO2
2023	MHDT/HHDT	9.57E-02	g/mile	PMBW	PM10
2023	MHDT/HHDT	4.10E-02	g/mile	PMBW	PM25
2023	MHDT/HHDT	2.38E-02	g/mile	PMTW	PM10
2023	MHDT/HHDT	5.95E-03	g/mile	PMTW	PM25
2023	MHDT/HHDT	2.90E-04	g/trip	RESTL	ROG
2023	MHDT/HHDT	3.72E-01	g/mile	RUNEX	CO
2023	MHDT/HHDT	1.90E+00	g/mile	RUNEX	NOx
2023	MHDT/HHDT	1.23E-02	g/mile	RUNEX	PM10
2023	MHDT/HHDT	1.18E-02	g/mile	RUNEX	PM25
2023	MHDT/HHDT	2.02E-02	g/mile	RUNEX	ROG
2023	MHDT/HHDT	1.13E-02	g/mile	RUNEX	SO2
2023	MHDT/HHDT	1.39E-02	g/mile	RUNLS	ROG
2023	MHDT/HHDT	6.99E-01	g/trip	STREX	CO
2023	MHDT/HHDT	1.97E+00	g/trip	STREX	NOx
2023	MHDT/HHDT	6.80E-05	g/trip	STREX	PM10
2023	MHDT/HHDT	6.25E-05	g/trip	STREX	PM25
2023	MHDT/HHDT	3.23E-02	g/trip	STREX	ROG
2023	MHDT/HHDT	6.02E-05	g/trip	STREX	SO2
2021	HHDT	1.34E-05	g/trip	DIURN	ROG
2021	HHDT	3.73E-04	g/trip	HTSK	ROG
2021	HHDT	6.11E+00	g/trip	IDLEX	CO
2021	HHDT	6.59E+00	g/trip	IDLEX	NOx
2021	HHDT	1.02E-02	g/trip	IDLEX	PM10
2021	HHDT	9.73E-03	g/trip	IDLEX	PM25

Table B-2. Summary of On-Road Construction Trip Emission Factors
Gardena TOD Specific Plan
Gardena, California

Year	Fleet Mix	On-road Emission Factor	Units	Type	Pollutant
2021	HHDT	4.78E-01	g/trip	IDLEX	ROG
2021	HHDT	1.08E-02	g/trip	IDLEX	SO2
2021	HHDT	6.11E-02	g/mile	PMBW	PM10
2021	HHDT	2.62E-02	g/mile	PMBW	PM25
2021	HHDT	3.56E-02	g/mile	PMTW	PM10
2021	HHDT	8.90E-03	g/mile	PMTW	PM25
2021	HHDT	9.16E-06	g/trip	RESTL	ROG
2021	HHDT	7.14E-01	g/mile	RUNEX	CO
2021	HHDT	4.16E+00	g/mile	RUNEX	NOx
2021	HHDT	4.99E-02	g/mile	RUNEX	PM10
2021	HHDT	4.78E-02	g/mile	RUNEX	PM25
2021	HHDT	1.26E-01	g/mile	RUNEX	ROG
2021	HHDT	1.39E-02	g/mile	RUNEX	SO2
2021	HHDT	1.59E-04	g/mile	RUNLS	ROG
2021	HHDT	1.09E-02	g/trip	STREX	CO
2021	HHDT	1.88E+00	g/trip	STREX	NOx
2021	HHDT	1.90E-06	g/trip	STREX	PM10
2021	HHDT	1.75E-06	g/trip	STREX	PM25
2021	HHDT	2.87E-06	g/trip	STREX	ROG
2021	HHDT	9.79E-07	g/trip	STREX	SO2
2022	HHDT	1.13E-05	g/trip	DIURN	ROG
2022	HHDT	3.15E-04	g/trip	HTSK	ROG
2022	HHDT	6.42E+00	g/trip	IDLEX	CO
2022	HHDT	6.57E+00	g/trip	IDLEX	NOx
2022	HHDT	4.62E-03	g/trip	IDLEX	PM10
2022	HHDT	4.42E-03	g/trip	IDLEX	PM25
2022	HHDT	4.75E-01	g/trip	IDLEX	ROG
2022	HHDT	1.09E-02	g/trip	IDLEX	SO2
2022	HHDT	6.11E-02	g/mile	PMBW	PM10
2022	HHDT	2.62E-02	g/mile	PMBW	PM25
2022	HHDT	3.56E-02	g/mile	PMTW	PM10
2022	HHDT	8.90E-03	g/mile	PMTW	PM25
2022	HHDT	7.71E-06	g/trip	RESTL	ROG
2022	HHDT	5.85E-01	g/mile	RUNEX	CO
2022	HHDT	3.60E+00	g/mile	RUNEX	NOx
2022	HHDT	2.82E-02	g/mile	RUNEX	PM10
2022	HHDT	2.70E-02	g/mile	RUNEX	PM25
2022	HHDT	8.23E-02	g/mile	RUNEX	ROG
2022	HHDT	1.35E-02	g/mile	RUNEX	SO2
2022	HHDT	1.34E-04	g/mile	RUNLS	ROG
2022	HHDT	9.63E-03	g/trip	STREX	CO
2022	HHDT	2.06E+00	g/trip	STREX	NOx
2022	HHDT	1.61E-06	g/trip	STREX	PM10
2022	HHDT	1.48E-06	g/trip	STREX	PM25
2022	HHDT	2.87E-06	g/trip	STREX	ROG
2022	HHDT	8.95E-07	g/trip	STREX	SO2
2023	HHDT	9.23E-06	g/trip	DIURN	ROG
2023	HHDT	2.59E-04	g/trip	HTSK	ROG

Table B-2. Summary of On-Road Construction Trip Emission Factors
Gardena TOD Specific Plan
Gardena, California

Year	Fleet Mix	On-road Emission Factor	Units	Type	Pollutant
2023	HHDT	6.84E+00	g/trip	IDLEX	CO
2023	HHDT	6.10E+00	g/trip	IDLEX	NOx
2023	HHDT	3.76E-03	g/trip	IDLEX	PM10
2023	HHDT	3.60E-03	g/trip	IDLEX	PM25
2023	HHDT	4.80E-01	g/trip	IDLEX	ROG
2023	HHDT	1.06E-02	g/trip	IDLEX	SO2
2023	HHDT	6.11E-02	g/mile	PMBW	PM10
2023	HHDT	2.62E-02	g/mile	PMBW	PM25
2023	HHDT	3.56E-02	g/mile	PMTW	PM10
2023	HHDT	8.90E-03	g/mile	PMTW	PM25
2023	HHDT	6.30E-06	g/trip	RESTL	ROG
2023	HHDT	4.60E-01	g/mile	RUNEX	CO
2023	HHDT	2.71E+00	g/mile	RUNEX	NOx
2023	HHDT	1.85E-02	g/mile	RUNEX	PM10
2023	HHDT	1.77E-02	g/mile	RUNEX	PM25
2023	HHDT	2.49E-02	g/mile	RUNEX	ROG
2023	HHDT	1.27E-02	g/mile	RUNEX	SO2
2023	HHDT	1.05E-04	g/mile	RUNLS	ROG
2023	HHDT	9.64E-03	g/trip	STREX	CO
2023	HHDT	2.35E+00	g/trip	STREX	NOx
2023	HHDT	1.35E-06	g/trip	STREX	PM10
2023	HHDT	1.24E-06	g/trip	STREX	PM25
2023	HHDT	2.86E-06	g/trip	STREX	ROG
2023	HHDT	8.42E-07	g/trip	STREX	SO2

Abbreviations:

CO - carbon monoxide
DIURN - diurnal
g - grams
HHDT - heavy-heavy duty trucks
HTSK - hotsoak
IDLEX - idling exhaust
LD - light-duty
MHDT - medium-heavy duty trucks
NO_x - nitrogen oxides
PM_{10} - particulate matter less than 10 microns in diameter
$PM_{2.5}$ - particulate matter less than 2.5 microns in diameter
PMBW - brake wear
PMTW - tire wear
RESTL - resting loss
ROG - reactive organic gases
RUNEX - running exhaust
RUNLS - running loss
SO_2 - sulfur dioxide
STREX - starting exhaust

Kimley»Horn

TECHNICAL MEMORANDUM

To: Ray Barragan and Lisa Kranitz, City of Gardena

From: Ace Malisos and Rita Garcia

Date: January 14, 2021

Subject: **Gardena Transit Oriented Development Specific Plan, 12850 and 12900 Crenshaw Boulevard, Air Quality Technical Report Peer Review**

Kimley-Horn has conducted a follow-up third-party peer review of the Project's Air Quality Technical Report (Ramboll US Corporation, August 2020) on behalf of the City of Gardena to verify that Kimley-Horn's July 27, 2020 third-party peer review Technical Memo (TM) recommendations have been incorporated. The revised August 2020 report addressed the third-party peer review comments and thus is in compliance with the TM recommendations. The analysis, as revised, meets the applicable provisions of CEQA and the State CEQA Guidelines and is adequate for inclusion in the Project EIR.

Please do not hesitate to contact Ace Malisos at 714.705.1380 or ace.malisos@kimley-horn.com with any questions.

12850 and 12900 Crenshaw Boulevard

HEALTH RISK ASSESSMENT

Prepared For:

Din/Cal 4, Inc.
1010 South Coast Highway 101, Suite 106
Encinitas, California 92024

Prepared By:

Air Quality Dynamics
(818) 703-3294

August 2020

TABLE OF CONTENTS

1.0 INTRODUCTION

The California Air Resources Board (ARB) and South Coast Air Quality Management District (SCAQMD) have promulgated advisory recommendations to avoid siting sensitive land uses within proximity to industrial/commercial facilities which have the potential to expose individuals to toxic air contaminants.

Air Quality Dynamics has reviewed the advisory guidance from the ARB (*Air Quality and Land Use Handbook: A Community Health Perspective*, April 2005) and SCAQMD (*Air Quality Issues in School Site Selection*, May 2007) relating to emission sources of concern when siting sensitive land uses to identify facilities that warrant consideration. In addition, the SCAQMD has commented on the need to address outdoor exposures while individuals frequent amenities such as courtyards and related common areas whereby an assessment of both chronic and short-duration exposures would be required to address these concerns.

Based upon this guidance and a review of facilities located in proximity of the proposed project a health risk assessment (HRA) was prepared which quantifies the generation of emissions from adjoining sources to determine the potential endangerment to the health of individuals who reside and utilize available outdoor amenities at the proposed project site. As such, warehouse/distribution centers which accommodate diesel fueled vehicles, dry cleaning facilities which utilize perchloroethylene as a cleaning solvent and gasoline dispensing facilities due to transient vapor loss were identified and evaluated in the HRA.

The assessment and dispersion modeling methodologies utilized in the preparation of the HRA incorporate all relevant and appropriate procedures presented by the U.S. Environmental Protection Agency, California Environmental Protection Agency and SCAQMD. The methodologies and assumptions offered under this regulatory guidance were used to ensure that the assessment effectively quantified contaminant exposures associated with the generation of emissions from stationary source activity. This report summarizes the protocol used to evaluate contaminant exposures and presents the results of the HRA.

2.0 SITE DESCRIPTION

The project proposes the construction of an 8-story residential complex, consisting of a 5-story wood frame residential structure situated above three concrete parking levels located at 12850 and 12900 Crenshaw Boulevard, Gardena, California. The project will accommodate up to a maximum of 265 residential units with residential amenities including a pool, fitness/club rooms, lanai and open space courtyards. It is anticipated that buildout and subsequent occupancy will occur in 2023.

The adjoining community is typified by commercial/manufacturing, warehousing and residential land uses. The project site is bounded by commercial/manufacturing businesses to the north and south, the Dominguez Channel to the east and Crenshaw Boulevard to the west. Figure 1 presents an aerial photograph of the project location and adjoining community.

Figure 1
Site Location /Vicinity Aerial Photograph

3.0 SOURCE IDENTIFICATION

3.1 Warehouse/Distribution Sources

The Institute of Transportation Engineers (ITE) *Trip Generation Manual* is a collection of data sets addressing vehicular traffic generated by different land uses. This information is based on studies made to determine how many vehicles enter and exit a site associated with a particular land use. To characterize traffic movements associated with these facilities, the ITE *Trip Generation Manual*, Land Use Codes 154 and 150 for high-cube transload and general warehouses were reviewed and utilized in the assessment.

As defined by ITE, a high-cube transload warehouse is a facility that typically has 200,000 gross square feet of floor area, ceiling heights of 24 feet or more and used primarily for the storage and/or consolidation of manufactured goods prior to their distribution to retail or ancillary warehouse locations. A warehouse is primarily devoted to the storage of materials and may support office and maintenance accommodations. The facilities identified for inclusion in the HRA were based upon field observations and characterized by property profiles reported in the County of Los Angeles Property Information System. Figures 2

through 4 present the facilities and discrete assessor identification numbers for each identified property profile.

Figure 2
High Cube Transload/AIN: 4056-032-052/054 and 4056-032-053/055

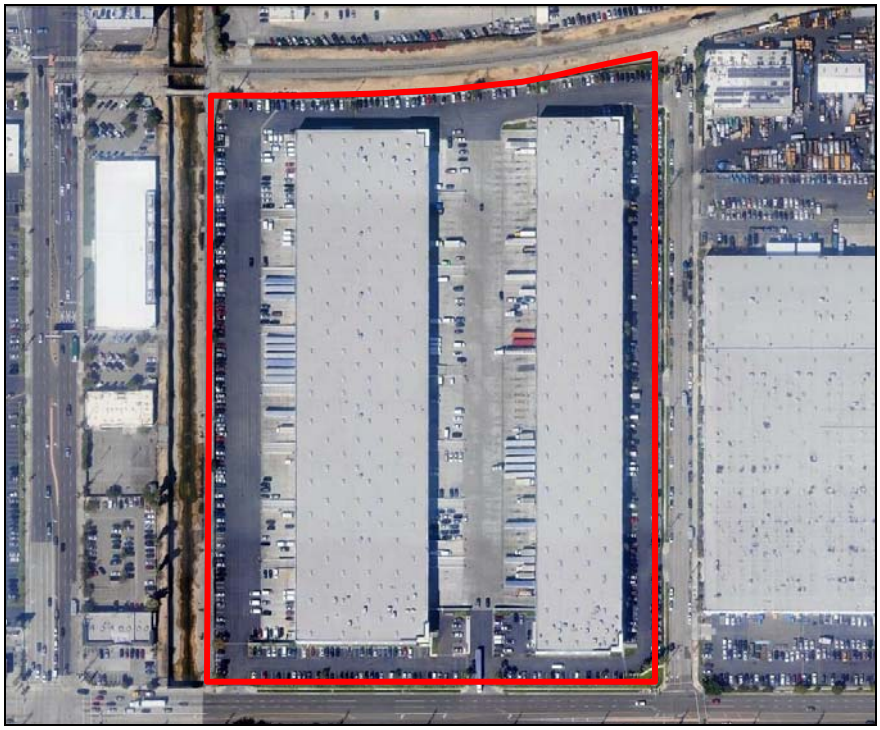

Figure 3
Warehouse/AIN: 4053-006-014/004

Figure 4
Warehouse/AIN: 4053-005-009

The ITE trip generation rates and average daily traffic volumes account for a directional distribution of 50 percent entering and 50 percent exiting a given facility whereby the reported daily volumes were reduced by one half to quantify on-site activity for a given vehicle class. Tables 1 through 3 present the vehicle counts considered in the HRA. Appendix B presents the trip generation calculation worksheet for the warehouse/distribution facilities considered in the assessment.

Table 1
Trip Generation/Traffic Volume Summary
AIN: 4056-032-052/054 and 4056-032-053/055

Land Use	Units TSF	ITE Code	Vehicle Count (Daily)
High Cube Transload	333.864	154	
2 Axle Trucks (LHDT1, LHDT2 MDV)			12.5
3 Axle Trucks (MHDT)			15.5
4+ Axle Trucks (HHDT)			47.0

Note: Trip Generation: Institute of Transportation Engineers (ITE), Trip Generation Manual, 10th Edition (2017). Vehicle Mix: ITE High Cube Warehouse Vehicle Trip Generation Analysis (2016) and South Coast Air Quality Management District Warehouse Truck Trip Study-Data Results and Usage (2014). TSF (thousand square feet) based upon lot size as reported by the Los Angeles County Assessor.

Table 2
Trip Generation/Traffic Volume Summary
AIN: 4053-006-014/004

Land Use	Units TSF	ITE Code	Vehicle Count (Daily)
Warehouse	60.337	150	
2 Axle Trucks (LHDT1, LHDT2 MDV)			1.5
3 Axle Trucks (MHDT)			2.0
4+ Axle Trucks (HHDT)			6.5

Note: Trip Generation: Institute of Transportation Engineers (ITE), Trip Generation Manual, 10th Edition (2017). Vehicle Mix: City of Fontana Truck Trip Generation Study (2003). TSF (thousand square feet) based upon lot size as reported by the Los Angeles County Assessor.

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Table 3
Trip Generation/Traffic Volume Summary
AIN: 4053-005-009

Land Use	Units TSF	ITE Code	Vehicle Count (Daily)
Warehouse	65.430	150	
2 Axle Trucks (LHDT1, LHDT2 MDV)			2.0
3 Axle Trucks (MHDT)			2.5
4+ Axle Trucks (HHDT)			7.0

Note: Trip Generation: Institute of Transportation Engineers (ITE), Trip Generation Manual, 10th Edition (2017). Vehicle Mix: City of Fontana Truck Trip Generation Study (2003). TSF (thousand square feet) based upon lot size as reported by the Los Angeles County Assessor. .

3.2 Commercial Sources

As noted above, advisory guidance from the ARB and SCAQMD report that dry cleaning operations which utilize perchloroethylene represent an emission source of potential concern. One dry cleaning facility is located in proximity of the proposed project site. However, a review of available permit documentation and rules (SCAQMD Rule 1421) regulating its operation indicate that use of perchloroethylene as a cleaning solvent will be discontinued by December 31, 2020. This date occurs prior to project buildout and occupancy whereby the facility was omitted from further consideration.

For gasoline dispensing, consideration should be given when siting sensitive land uses within proximity of a facility with an annual throughput of 3.60 million gallons per year or greater. A review of available permit information and consideration of their proximity to the proposed project all neighboring dispensing facilities were considered for inclusion. Table 4 lists the identified facilities and gasoline throughputs utilized in the assessment. A copy of the permits to construct and operate for each gasoline dispensing facility are provided in Appendix C.

Table 4
Gasoline Dispensing Throughput

Facility	Throughput (Gallons)	
	Monthly	Annual
USA/3101 W. El Segundo Blvd.	450,000	5.40 Million
Shell/12810 Crenshaw Blvd.	700,000	8.40 Million

4.0 SOURCE CHARACTERIZATION

4.1 Warehouse/Distribution Sources

In urban communities, vehicle emissions contribute significantly to localized concentrations of air contaminants. Typically, emissions generated from these sources are characterized by vehicle mix, the rate pollutants are generated during the course of travel and the number of vehicles traversing the roadway network.

Currently, emission factors are generated from a series of computer based programs to produce a composite emission rate for vehicles traveling at various speeds within a defined geographical area or along a discrete roadway segment. To account for the emission standards imposed on the California fleet, the ARB has developed the EMFAC2017 emission factor model. EMFAC2017 was utilized to identify exhaust emission rates for particulates (PM_{10}) which serve as a surrogate for diesel emissions.

To produce a representative vehicle fleet distribution, the assessment utilized ARB's Los Angeles County (South Coast) population estimates for the 2023 calendar year. The reported population estimates where subsequently adjusted to coincide with the vehicle counts presented in the Trip Generation/Traffic Volume Summaries presented in Tables 1 through 3. Based upon this approach, the identified fleet mix profiles considered in the assessment are presented in Tables 5 through 7.

Table 5
Vehicle Fleet Mix Profile
AIN: 4056-032-052/054 and 4056-032-053/055

Vehicle Type	Los Angeles County (SC)		
	Class	Fuel	Population
2 Axle Trucks	LHDT1	Diesel	7.29
	LHDT2	Diesel	2.95
	MDV	Diesel	2.26
3 Axle Trucks	MHDT	Diesel	15.50
4+ Axle Trucks	HHDT	Diesel	47.00

Note: Vehicle category descriptions can be found on the California Air Resources Board website at http://www.arb.ca.gov/msei/modeling.htm.

Table 6
Vehicle Fleet Mix Profile
AIN: 4053-006-014/004

Vehicle Type	Los Angeles County (SC)		
	Class	Fuel	Population
2 Axle Trucks	LHDT1	Diesel	0.87
	LHDT2	Diesel	0.35
	MDV	Diesel	0.27
3 Axle Trucks	MHDT	Diesel	2.00
4+ Axle Trucks	HHDT	Diesel	6.50

Note: Vehicle category descriptions can be found on the California Air Resources Board website at http://www.arb.ca.gov/msei/modeling.htm.

Table 7
Vehicle Fleet Mix Profile
AIN: 4053-005-009

Vehicle Type	Los Angeles County (SC)		
	Class	Fuel	Population
2 Axle Trucks	LHDT1	Diesel	1.17
	LHDT2	Diesel	0.47
	MDV	Diesel	0.36
3 Axle Trucks	MHDT	Diesel	2.50
4+ Axle Trucks	HHDT	Diesel	7.00

Note: Vehicle category descriptions can be found on the California Air Resources Board website at http://www.arb.ca.gov/msei/modeling.htm.

A transient lot speed of 5 miles per hour was considered for all vehicles entering and exiting the subject properties. In consideration of lot speed and associated travel distance, a conservative lot ingress/egress time of 5 minutes was assumed. For all trucks, an idle time of 5 minutes was considered and added to the running emission rate to produce composite emission profiles. This is based upon the assumption that emissions are generated when trucks are 1) entering the facility and traversing to the dock area; 2) idling within the dock area; and 3) when leaving the dock area and departing from the facility. For idle exhaust emissions not listed in EMFAC2017, the 5 mile per hour rate was utilized and adjusted to produce a gram per hour value. All entering/exiting vehicles were assumed to have a homogeneous daily distribution.

4.2 Commercial Sources

For gasoline dispensing, the SCAQMD currently utilizes total organic gas (TOG) emission factors for the processes of loading, breathing, refueling and spillage. Specifically, loading emissions occur when a fuel truck unloads gasoline to the storage tanks and the storage tank vapors are displaced during loading and emitted through its vent pipe. Breathing emissions occur through the storage tank vent pipe as a result of temperature and pressure changes in the

tank vapor space. Refueling emissions are associated with motor vehicle refueling when gasoline vapors escape through the vehicle/nozzle interface. Evaporating gasoline that spills during vehicle refueling are associated with spillage emissions.
Table 8 presents the emission factors utilized in the assessment for the identified process emission sources.

Table 8
Controlled Total Organic Gas (TOG) Emission Factors

Process	Emission Factor (lbs/1,000 gal throughput)
Loading	0.150
Breathing	0.024
Refueling	0.320
Spillage	0.240

To account for the various toxic compounds associated with gasoline dispensing emissions, the SCAQMD utilizes speciation profiles to provide estimates of chemical composition. Table 9 lists the speciation profile and throughput for each identified compound.

Table 9
Gasoline Compound Speciation (Weight Percent)

Compound	Emission Factor (lbs/1,000 gal throughput)
Benzene (vapor)	0.455
Ethyl benzene (vapor)	0.107
Naphthalene (vapor)	0.0004
Benzene (liquid)	0.707
Ethyl benzene (liquid)	1.29
Naphthalene (liquid)	0.174

Appendix B presents the warehouse/distribution and gasoline dispensing emission rate calculation worksheets for the facilities considered in the assessment.

5.0 EXPOSURE QUANTIFICATION

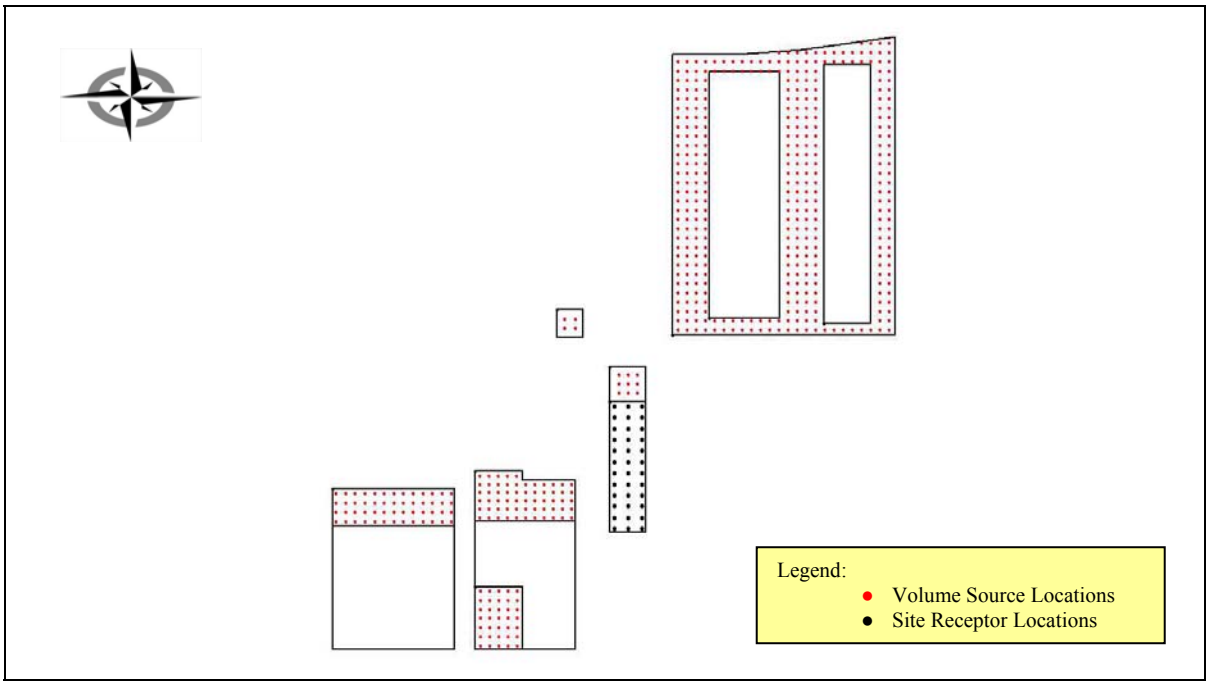
In order to assess the impact of emitted compounds on individuals who reside within and/or access common areas, air quality modeling utilizing the AMS/EPA Regulatory Model AERMOD was performed to assess the downwind extent of stationary source emissions located within proximity of the project site. AERMOD is a steady-state Gaussian plume model applicable to directly emitted air pollutants that employs best state-of-practice parameterizations for characterizing meteorological influences and atmospheric dispersion. AERMOD is the U.S. Environmental Protection Agency's guideline model for the assessment of near-field pollutant dispersion.

The volume source algorithm was utilized to model the emissions generated from all stationary source activity. For warehouse/distribution sources, vertical (sigma z) dispersion parameters

and source release heights were based upon the *Risk Characterization Scenarios* published by the ARB for the *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*. For gasoline dispensing, the California Air Pollution Officers Association (CAPCOA) *Industrywide Risk Assessment Guidelines* were utilized to produce sigma z and emission release heights. To ensure a conservative assessment, characterizations associated with refueling and spillage were used for all process emissions. The horizontal (sigma y) parameters were generated by dividing the source separation distance by a standard deviation of 2.15. The model scalar option was additionally invoked to account for continuous emissions occurring over a 24-hour period (ending hours 1 through 24).

The modeling analysis also considered the spatial distribution of stationary source activity in relation to the project site. To accommodate a Cartesian grid format, direction dependent calculations were obtained by identifying the universal transverse mercator (UTM) coordinates for each volume source location. On-site receptors were uniformly placed to provide coverage across the identified project boundary commensurate with residential uses and areas of common access. For short-duration exposures (i.e., 1 and 8-hours) receptor locations were set at flagpole heights commensurate with common/recreational area elevations. For chronic exposures, receptor locations were set at flagpole heights representing residential floor levels and the presumed height above local terrain for proposed heating, ventilation and air conditioning (HVAC) equipment. A graphical representation of the source-receptor grid network is presented in Figure 5.

Figure 5
Source-Receptor Grid Network



Air dispersion models require additional input parameters including pollutant emission data and local meteorology. Due to the their sensitivity to individual meteorological parameters such as wind speed and direction, the U.S. Environmental Protection Agency recommends that meteorological data used as input into dispersion models be selected on the basis of relative

spatial and temporal conditions that exist in the area of concern. In response to this recommendation, meteorological data from the SCAQMD Hawthorne Airport (KHHR) monitoring station was used to represent local weather conditions and prevailing winds. For daily and short-duration exposures, five years of available AERMOD meteorological data were reviewed to identify the calendar years which produced the highest pollutant concentrations. For chronic exposures, maximum concentrations were produced by incorporating all five years of available data. Dispersion model input tables are provided in Appendix D. A listing of model output summary files are provided in Appendix E.

6.0 RISK CHARACTERIZATION

For all pollutants and averaging times, concentration estimates are considered static whereby exposures are assumed to be continuous based upon the averaging time under consideration.

6.1 Carcinogenic Chemical Risk

Carcinogenic compounds are not considered to have threshold levels (i.e., dose levels below which there are no risks). Any exposure, therefore, will have some associated risk. As a result, the State of California has established a threshold of one in one hundred thousand (1.0E-05) as a level posing no significant risk for exposures to carcinogens regulated under the Safe Drinking Water and Toxic Enforcement Act (Proposition 65). For a chemical that is known to the State of California to cause cancer, the level posing no significant risk is defined as the level of exposure that would result in not more than one excess case of cancer in 100,000 individuals exposed to the chemical over a 70-year lifetime.

Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. Under a deterministic approach (i.e., point estimate methodology), the cancer risk probability is determined by multiplying the chemical's annual concentration by its unit risk factor (URF). None of the compounds considered in the assessment have oral slope factors and, as such, a multi-pathway analysis was not performed. The URF is a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It represents an upper bound estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu g/m^3$) over a 70-year lifetime. The URFs utilized in the assessment and corresponding cancer potency factors were obtained from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values*.

A review of available guidance was conducted to determine applicability of the use of early life exposure adjustments to identified carcinogens. For risk assessments conducted under the auspices of The Air Toxics "Hot Spots" Information and Assessment Act (AB 2588, Connelly, Statutes of 1987; Health and Safety Code Section 44300 et seq.) and associated guidelines promulgated by the California Office of Environmental Health Hazard Assessment (OEHHA)

a weighting factor is applied to all carcinogens which arbitrarily enhance their toxicity to specified age groups regardless of purported mode of action.

Notwithstanding, in comments presented to the SCAQMD Governing Board (Meeting Date: June 5, 2015, Agenda No. 28) relating to toxic air contaminant exposures under Rules 1401, 1401.1, 1402 and 212 revisions, use of the OEHHA guidelines and their applicability for projects subject to CEQA, it was reported that:

> The Proposed Amended Rules are separate from the CEQA significance thresholds. The Response to Comments Staff Report PAR 1401, 1401.1, 1402, and 212 A - 8 June 2015 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.

To date, the SCAQMD, as a commenting agency, has not conducted public workshops nor developed policy relating to the applicability of applying the OEHHA guidance for projects prepared by other public/lead agencies subject to CEQA.

As a result, this assessment, relied upon U.S. Environmental Protection Agency guidance relating to the use of early life exposure adjustment factors (*Supplemental Guidance for Assessing Susceptibility from Early-Life Exposure to Carcinogens*, EPA/630/R-003F) whereby adjustment factors are only considered when carcinogens act "through the mutagenic mode of action." In 2006, the U.S. Environmental Protection Agency published a memorandum which provides guidance regarding the preparation of health risk assessments should carcinogenic compounds elicit a mutagenic mode of action (USEPA, 2006). As presented in the technical memorandum, numerous compounds were identified as having a mutagenic mode of action. None of the gaseous compounds considered in this assessment elicit a mutagenic mode of action and, therefore, early life exposure adjustments were not considered. For diesel particulates, polycyclic aromatic hydrocarbons (PAHs) and their derivatives, which are known to exhibit a mutagenic mode of action, comprise < 1% of the exhaust particulate mass. To date, the U.S. Environmental Protection Agency reports that whole diesel engine exhaust has not been shown to elicit a mutagenic mode of action (USEPA, 2018).

Additionally, the California Department of Toxic Substances Control (DTSC) which is charged with protecting individuals and the environment from the effects of toxic substances and responsible for assessing, investigating and evaluating sensitive receptor populations to ensure that properties are free of contamination or that health protective remediation levels are achieved has adopted the U.S. Environmental Protection Agency's policy in the application of early life exposure adjustments which is consistent with the assessment's methodology for the proposed residential occupancy.

To quantify dose, the procedure requires the incorporation of several discrete exposure variates. To account for upper bound exposures associated with residential occupancies, lifetime risk values were adjusted to account for an exposure frequency of 350 days per year for a period of 30 years (i.e., 0.25 years for the third trimester, 2 years for ages 0 to 2 years, 14 years for ages 2 to 16 years and 14 years for ages 16 to 30 years). An exposure duration (i.e., residency time) of 30 years was utilized as it provides adequate public health protection addressing individual risk and is a reasonable estimate of the 95th percentile associated with residency duration within a population.

Point estimates for daily breathing rates representing the 95th percentile of 361, 1090, 861, 745 and 335 L/kg-day for the identified age groups were utilized and incorporated into the following dose algorithm.

$$Dose_{air} = C_{air} \times \{BR/BW\} \times A \times EF \times 10^{-6}$$

Where:

$Dose_{air}$	=	*dose through inhalation (mg/kg/day)*
C_{air}	=	*concentration of contaminant in air ($\mu g/m^3$)*
$\{BR/BW\}$	=	*daily breathing rate normalized to body weight (L/kg body weight/day)*
A	=	*inhalation absorption factor (unitless)*
EF	=	*exposure frequency (days/365 days)*
10^{-6}	=	*micrograms to milligrams conversion*

Inhalation dose estimates were subsequently incorporated into the following equation to produce carcinogenic risk estimates commensurate with the exposure duration for each age group.

$$Risk_{inh} = Dose_{air} \times CPF \times ED/AT \times FAH$$

Where:

$Risk_{inh}$	=	*inhalation cancer risk*
$Dose_{air}$	=	*daily inhalation dose (mg/kg/day)*
CPF	=	*inhalation cancer potency factor ($mg/kg/day^{-1}$)*
ED	=	*exposure duration for specified age group (years)*
AT	=	*averaging time (years)*
FAH	=	*fraction of exposure time (default 1)*

Table 10 presents the carcinogenic risk estimate for the maximum exposed residential receptor. As noted, carcinogenic risks did not exceed the significance threshold of one in one hundred thousand (1.0E-05) for the 30-year exposure scenario. Appendix A, Tables A1 through A4, column b present the maximum concentration estimates considered in the assessment. Columns f-h, present the URFs, corresponding cancer potency factors and dose estimates for carcinogens considered in the assessment. The cancer risk attributed to each compound and summation of those risks are presented in column i.

Table 10
Maximum Residential Receptor / Carcinogenic Risk

Age Group	Exposure Scenario
Third Trimester	4.7E-08
0 to 2 years	1.1E-06
2 to 16 years	5.4E-06
16 to 30 years	2.4E-06
Total	9.0E-06

6.2 Noncarcinogenic Hazards

An evaluation of the potential noncancer effects of contaminant exposures was also conducted. Under the point estimate approach, adverse health effects are evaluated by comparing the concentration of each compound with the appropriate Reference Exposure Level (REL). Available REL's presented in the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* were considered in the assessment.

To quantify noncarcinogenic impacts, the hazard index approach was used. The hazard index assumes that subthreshold exposures adversely affect a specific organ or organ system (i.e., toxicological endpoint). For each discrete pollutant exposure, target organs presented in regulatory guidance were utilized.

To calculate the hazard index, the pollutant concentration or dose is divided by the appropriate toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds one (i.e., unity), a health hazard is presumed to exist. No exposure frequency or duration adjustments are considered for noncarcinogenic exposures.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one for the 30-year exposure scenario. For short-duration exposures, the hazard indices for each respective averaging time did not exceed unity.

Appendix A, Tables A1 through A4, column b present the maximum concentration estimates considered in the assessment. Columns j-k, present the RELs and corresponding reference dose values used in the evaluation of chronic noncarcinogenic exposures. The noncancer hazard quotient for identified compounds and a summation for each toxicological endpoint are presented in columns l-s. For short duration exposures, Tables A5 and A6, column b present the maximum concentration estimates. Columns e-m identify the compound's REL, hazard quotient and corresponding index for each endpoint.

7.0 CONCLUSION

In comparison to the threshold level referenced in Section 6.1, carcinogenic risk estimates for the maximum exposed residential receptor did not exceed the significance threshold of one in one hundred thousand (1.0E-05) for the 30-year exposure scenario.

For chronic noncarcinogenic effects, the hazard index identified for each toxicological endpoint totaled less than one. For short-duration exposures, the hazard index for the identified averaging times did not exceed unity. Therefore, noncarcinogenic hazards were predicted to be within acceptable limits.

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APPENDIX A

Risk Calculation Worksheets

Table A1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
Third Trimester Exposure Scenario / Maximum Receptor Location

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)
Whs/Dist	0.00029	2.90E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.0E-07	3.8E-10	5.0E+00	1.4E-03	5.8E-05							
Gasoline	0.62409	6.24E-04	4.94E-01	Benzene	2.9E-05	1.0E-01	1.1E-04	3.9E-08	3.0E+00	8.6E-04			1.0E-01					
Service			4.54E-01	Ethylbenzene	2.5E-06	8.8E-03	9.8E-05	3.1E-09	2.0E+03	5.7E-01					1.4E-04	1.4E-04	1.4E-04	
			5.25E-02	Napthlene	3.4E-05	1.2E-01	1.1E-05	4.8E-09	9.0E+00	2.6E-03	3.6E-03							
TOTAL								4.7E-08			3.7E-03	0.0E+00	1.0E-01	0.0E+00	1.4E-04	1.4E-04	1.4E-04	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	1
breathing rate third trimester	361
breathing rate 0-2	1090
breathing rate 2-9	861
breathing rate 2-16	745
breathing rate 16-30	335
breathing rate 16-70	290

Table A2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0 to 2 Year Exposure Scenario / Maximum Receptor Location

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)
Whs/Dist	0.00029	2.90E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.0E-07	9.1E-09	5.0E+00	1.4E-03	5.8E-05							
Gasoline	0.62409	6.24E-04	4.94E-01	Benzene	2.9E-05	1.0E-01	3.2E-04	9.3E-07	3.0E+00	8.6E-04			1.0E-01					
Service			4.54E-01	Ethylbenzene	2.5E-06	8.8E-03	3.0E-04	7.4E-08	2.0E+03	5.7E-01					1.4E-04	1.4E-04	1.4E-04	
			5.25E-02	Napthlene	3.4E-05	1.2E-01	3.4E-05	1.2E-07	9.0E+00	2.6E-03	3.6E-03							
TOTAL								1.1E-06			3.7E-03	0.0E+00	1.0E-01	0.0E+00	1.4E-04	1.4E-04	1.4E-04	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	1
breathing rate third trimester	361
breathing rate 0-2	1090
breathing rate 2-9	861
breathing rate 2-16	745
breathing rate 16-30	335
breathing rate 16-70	290

Table A3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2 to 16 Year Exposure Scenario / Maximum Receptor Location

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)
Whs/Dist	0.00029	2.90E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.1E-07	4.4E-08	5.0E+00	1.4E-03	5.8E-05							
Gasoline Service	0.62409	6.24E-04	4.94E-01	Benzene	2.9E-05	1.0E-01	2.2E-04	4.5E-06	3.0E+00	8.6E-04			1.0E-01					
			4.54E-01	Ethylbenzene	2.5E-06	8.8E-03	2.0E-04	3.5E-07	2.0E+03	5.7E-01					1.4E-04	1.4E-04	1.4E-04	
			5.25E-02	Napthlene	3.4E-05	1.2E-01	2.3E-05	5.6E-07	9.0E+00	2.6E-03	3.6E-03							
TOTAL								5.4E-06			3.7E-03	0.0E+00	1.0E-01	0.0E+00	1.4E-04	1.4E-04	1.4E-04	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))	745
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	1
breathing rate third trimester	361
breathing rate 0-2	1090
breathing rate 2-9	861
breathing rate 2-16	745
breathing rate 16-30	335
breathing rate 16-70	290

Table A4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16 to 30 Year Exposure Scenario / Maximum Receptor Location

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)
Whs/Dist	0.00029	2.90E-07	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	9.3E-08	2.0E-08	5.0E+00	1.4E-03	5.8E-05							
Gasoline	0.62409	6.24E-04	4.94E-01	Benzene	2.9E-05	1.0E-01	9.9E-05	2.0E-06	3.0E+00	8.6E-04			1.0E-01					
Service			4.54E-01	Ethylbenzene	2.5E-06	8.8E-03	9.1E-05	1.6E-07	2.0E+03	5.7E-01					1.4E-04	1.4E-04	1.4E-04	
			5.25E-02	Napthlene	3.4E-05	1.2E-01	1.1E-05	2.5E-07	9.0E+00	2.6E-03	3.6E-03							
TOTAL								2.4E-06			3.7E-03	0.0E+00	1.0E-01	0.0E+00	1.4E-04	1.4E-04	1.4E-04	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))	335
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	1
breathing rate third trimester	361
breathing rate 0-2	1090
breathing rate 2-9	861
breathing rate 2-16	745
breathing rate 16-30	335
breathing rate 16-70	290

Table A5
Quantification of Noncarcinogenic Acute Hazards
1-Hour Exposure Scenario / Maximum Exposed Receptor

Source	Concentration (ug/m3)	Weight Fraction	Contaminant	Noncarcinogenic Hazards / Toxicological Endpoints*								
				REL (ug/m3)	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Gasoline Dispensing	2.33431	4.94E-01	Benzene	2.7E+01			4.3E-02	4.3E-02			4.3E-02	
Total					0.0E+00	0.0E+00	4.3E-02	4.3E-02	0.0E+00	0.0E+00	4.3E-02	0.0E+00

Table A6
Quantification of Noncarcinogenic Acute Hazards
8-Hour Exposure Scenario / Maximum Exposed Receptor

Source	Concentration (ug/m3)	Weight Fraction	Contaminant	Noncarcinogenic Hazards / Toxicological Endpoints*								
				REL (ug/m3)	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)
Gasoline Dispensing	2.16362	4.94E-01	Benzene	3.0E+00			3.6E-01					
Total					0.0E+00	0.0E+00	3.6E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

* Key to Toxocological 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

APPENDIX B

Emission Rate Calculation Worksheets

Trip Generation Calculation Worksheet

Land Use	Quantity	Units	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
High-Cube Transload	333.864	TSF							
Passenger Cars:			14	4	18	7	19	26	317
Truck Trips:									
2-axle:			1	0	1	0	1	1	**25**
3-axle:			1	0	1	0	1	1	**31**
4+-axle:			4	1	5	1	3	4	**94**
- Truck Trips			6	1	7	1	5	6	150
TOTAL TRIPS			20	5	25	8	24	32	467
Warehousing	60.337	TSF							
Passenger Cars:			6	2	8	2	7	9	84
Truck Trips:									
2-axle:			0	0	0	0	0	0	**3**
3-axle:			0	0	0	0	0	0	**4**
4+-axle:			1	0	1	0	1	1	**13**
- Truck Trips			1	0	1	0	1	1	20
TOTAL TRIPS			7	2	9	2	8	10	104
Warehousing	65.430	TSF							
Passenger Cars:			7	2	9	3	7	10	91
Truck Trips:									
2-axle:			0	0	0	0	0	0	**4**
3-axle:			0	0	0	0	0	0	**5**
4+-axle:			1	0	1	0	1	1	**14**
- Truck Trips			1	0	1	0	1	1	23
TOTAL TRIPS			8	2	10	3	8	11	114

Note: Daily counts denote the aggregate number of vehicles entering and exiting the facility.

Fleet Mix Profile
ITE Trip Generation/Traffic Volumes

High Cube Transload/AIN: 4056-032-052/054 and 4056-032-053/055

2 Axle	12.5
3 Axle	15.5
4+ Axle	47.0

Veh_Type	Veh_Class	Fuel	MdlYr	Population (vehicles)	Wt Frac	Population (vehicles)	Exposure Scenario (scalar) Dsl
2 Axle	LHDT1	DSL	Aggregated	68776.35703	0.5831	7.29	
	LHDT2	DSL	Aggregated	27873.77545	0.2363	2.95	
	MDV	DSL	Aggregated	21297.50738	0.1806	2.26	
				117947.6399	1	12.50	
3 Axle	MHDT	DSL	Aggregated	64520.19017	1	15.50	
4+ Axle	HHDT	DSL	Aggregated	57613.01744	1	47.00	
				Total		75.00	3.13

Warehouse/AIN: 4053-006-014/004

2 Axle	1.5
3 Axle	2.0
4+ Axle	6.5

Veh_Type	Veh_Class	Fuel	MdlYr	Population (vehicles)	Wt Frac	Population (vehicles)	Exposure Scenario (scalar) Dsl
2 Axle	LHDT1	DSL	Aggregated	68776.35703	0.5831	0.87	
	LHDT2	DSL	Aggregated	27873.77545	0.2363	0.35	
	MDV	DSL	Aggregated	21297.50738	0.1806	0.27	
				117947.6399	1	1.50	
3 Axle	MHDT	DSL	Aggregated	64520.19017	1	2.00	
4+ Axle	HHDT	DSL	Aggregated	57613.01744	1	6.50	
				Total		10.00	0.42

Fleet Mix Profile
ITE Trip Generation/Traffic Volumes

Warehouse/AIN: 4053-005-009

2 Axle	2.0
3 Axle	2.5
4+ Axle	7.0

Veh_Type	Veh_Class	Fuel	MdlYr	Population (vehicles)	Wt Frac	Population (vehicles)	Exposure Scenario (scalar) Dsl
2 Axle	LHDT1	DSL	Aggregated	68776.35703	0.5831	1.17	
	LHDT2	DSL	Aggregated	27873.77545	0.2363	0.47	
	MDV	DSL	Aggregated	21297.50738	0.1806	0.36	
				117947.6399	1	2.00	
3 Axle	MHDT	DSL	Aggregated	64520.19017	1	2.50	
4+ Axle	HHDT	DSL	Aggregated	57613.01744	1	7.00	
				Total		11.50	0.48

EMFAC2017
Worksheet

High Cube Transload/AIN: 4056-032-052/054 and 4056-032-053/055

EMFAC2017 Emission Rates
Region Type: County
Region: Los Angeles (SC)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Site:

Pollutant Classification: DSL Particulate (Truck)

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Los Angeles	2023	Annual	LHDT1	DSL	Aggregated	5	7.29	0.0972	0.038522515	0.0037
Los Angeles	2023	Annual	LHDT2	DSL	Aggregated	5	2.95	0.0394	0.044053627	0.0017
Los Angeles	2023	Annual	MDV	DSL	Aggregated	5	2.26	0.0301	0.012210565	0.0004
Los Angeles	2023	Annual	MHDT	DSL	Aggregated	5	15.50	0.2067	0.006113331	0.0013
Los Angeles	2023	Annual	HHDT	DSL	Aggregated	5	47.00	0.6267	0.014374931	0.0090
							75	1.0		0.016

Pollutant Classification: DSL Particulate (Truck)

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/hour)	PM10_RUNEX AVE (gms/hour)
Los Angeles	2023	Annual	LHDT1	DSL	Aggregated	Idle	7.29	0.0972	0.801154866	0.0779
Los Angeles	2023	Annual	LHDT2	DSL	Aggregated	Idle	2.95	0.0394	0.817588826	0.0322
Los Angeles	2023	Annual	MDV	DSL	Aggregated	Idle	2.26	0.0301	0.061052826	0.0018
Los Angeles	2023	Annual	MHDT	DSL	Aggregated	Idle	15.50	0.2067	0.036387652	0.0075
Los Angeles	2023	Annual	HHDT	DSL	Aggregated	Idle	47.00	0.6267	0.015642427	0.0098
							75	1.0		0.129

Warehouse/AIN: 4053-006-014/004

EMFAC2017 Emission Rates
Region Type: County
Region: Los Angeles (SC)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Pollutant Classification: DSL Particulate (Truck)

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/mile)
Los Angeles	2023	Annual	LHDT1	DSL	Aggregated	5	0.87	0.0875	0.038522515	0.0034
Los Angeles	2023	Annual	LHDT2	DSL	Aggregated	5	0.35	0.0354	0.044053627	0.0016
Los Angeles	2023	Annual	MDV	DSL	Aggregated	5	0.27	0.0271	0.012210565	0.0003
Los Angeles	2023	Annual	MHDT	DSL	Aggregated	5	2.00	0.2000	0.006113331	0.0012
Los Angeles	2023	Annual	HHDT	DSL	Aggregated	5	6.50	0.6500	0.014374931	0.0093
							10	1.0		0.016

Pollutant Classification: DSL Particulate (Truck)

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/hour)	PM10_RUNEX AVE (gms/hour)
Los Angeles	2023	Annual	LHDT1	DSL	Aggregated	Idle	0.87	0.0875	0.801154866	0.0701
Los Angeles	2023	Annual	LHDT2	DSL	Aggregated	Idle	0.35	0.0354	0.817588826	0.0290
Los Angeles	2023	Annual	MDV	DSL	Aggregated	Idle	0.27	0.0271	0.061052826	0.0017
Los Angeles	2023	Annual	MHDT	DSL	Aggregated	Idle	2.00	0.2000	0.036387652	0.0073
Los Angeles	2023	Annual	HHDT	DSL	Aggregated	Idle	6.50	0.6500	0.015642427	0.0102
							10	1.0		0.118

EMFAC2017
Worksheet

Warehouse/AIN: 4053-005-009

EMFAC2017 Emission Rates
Region Type: County
Region: Los Angeles (SC)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories

Pollutant Classification: DSL Particulate (Truck)

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/mile)	PM10_RUNEX AVE (gms/hour)
Los Angeles	2023	Annual	LHDT1	DSL	Aggregated	5	1.17	0.1014	0.038522515	0.0039
Los Angeles	2023	Annual	LHDT2	DSL	Aggregated	5	0.47	0.0411	0.044053627	0.0018
Los Angeles	2023	Annual	MDV	DSL	Aggregated	5	0.36	0.0314	0.012210565	0.0004
Los Angeles	2023	Annual	MHDT	DSL	Aggregated	5	2.50	0.2174	0.006113331	0.0013
Los Angeles	2023	Annual	HHDT	DSL	Aggregated	5	7.00	0.6087	0.014374931	0.0087
							12	1.0		0.016

Pollutant Classification: DSL Particulate (Truck)

Region	CalYr	Season	Veh_Class	Fuel	MdlYr	Speed (miles/hr)	Population (vehicles)	Wt Frac	PM10_RUNEX (gms/hour)	PM10_RUNEX AVE (gms/hour)
Los Angeles	2023	Annual	LHDT1	DSL	Aggregated	Idle	1.17	0.1014	0.801154866	0.0812
Los Angeles	2023	Annual	LHDT2	DSL	Aggregated	Idle	0.47	0.0411	0.817588826	0.0336
Los Angeles	2023	Annual	MDV	DSL	Aggregated	Idle	0.36	0.0314	0.061052826	0.0019
Los Angeles	2023	Annual	MHDT	DSL	Aggregated	Idle	2.50	0.2174	0.036387652	0.0079
Los Angeles	2023	Annual	HHDT	DSL	Aggregated	Idle	7.00	0.6087	0.015642427	0.0095
							12	1.0		0.134

Warehouse/Distribution Sources
Emission Rate Computation Worksheet

High Cube Transload/AIN: 4056-032-052/054 and 4056-032-053/055

Transient (Truck)

Number of Sources	361
Volume/Baseline (VPH)	1
Lot Time (sec)	300
Vehicle Speed (mph)	5
Exhaust Emission Rate (gr/mi)	0.016

Emission Rate (gr/sec) =(((Exhaust Emission Rate x Vehicle Speed) x (Lot Time/3600 sec/hr)) x (Traffic Volume))/(3600 sec/hr)

Pollutant Emission Rate (gr/sec)	1.85E-06
Pollutant Emission Rate (gr/sec/source)	5.13E-09

Idle (Truck)

Number of Sources	361
Volume/Baseline (VPH)	1
Vehicle Idle Time (sec)	300
Exhaust Emission Rate (gr/hr)	0.129

Emission Rate (gr/sec) = ((Exhaust Emission Rate x (Vehicle Idle Time/3600 sec/hr) x Traffic Volume))/(3600 sec/hr)

Pollutant Emission Rate (gr/sec)	2.99E-06
Pollutant Emission Rate (gr/sec/source)	8.27E-09

Total	1.34E-08

Warehouse/AIN: 4053-006-014/004

Transient (Truck)

Number of Sources	95
Volume/Baseline (VPH)	1
Lot Time (sec)	300
Vehicle Speed (mph)	5
Exhaust Emission Rate (gr/mi)	0.016

Emission Rate (gr/sec) =(((Exhaust Emission Rate x Vehicle Speed) x (Lot Time/3600 sec/hr)) x (Traffic Volume))/(3600 sec/hr)

Pollutant Emission Rate (gr/sec)	1.85E-06
Pollutant Emission Rate (gr/sec/source)	1.95E-08

Idle (Truck)

Number of Sources	95
Volume/Baseline (VPH)	1
Vehicle Idle Time (sec)	300
Exhaust Emission Rate (gr/hr)	0.118

Emission Rate (gr/sec) = ((Exhaust Emission Rate x (Vehicle Idle Time/3600 sec/hr) x Traffic Volume))/(3600 sec/hr)

Pollutant Emission Rate (gr/sec)	2.73E-06
Pollutant Emission Rate (gr/sec/source)	2.88E-08

Total	4.82E-08

Warehouse/Distribution Sources
Emission Rate Computation Worksheet

Warehouse/AIN: 4053-005-009

Transient (Truck)

Number of Sources	52
Volume/Baseline (VPH)	1
Lot Time (sec)	300
Vehicle Speed (mph)	5
Exhaust Emission Rate (gr/mi)	0.016

Emission Rate (gr/sec) =(((Exhaust Emission Rate x Vehicle Speed) x (Lot Time/3600 sec/hr)) x (Traffic Volume))/(3600 sec/hr)

Pollutant Emission Rate (gr/sec)	1.85E-06
Pollutant Emission Rate (gr/sec/source)	3.56E-08

Idle (Truck)

Number of Sources	52
Volume/Baseline (VPH)	1
Vehicle Idle Time (sec)	300
Exhaust Emission Rate (gr/hr)	0.134

Emission Rate (gr/sec) = ((Exhaust Emission Rate x (Vehicle Idle Time/3600 sec/hr) x Traffic Volume))/(3600 sec/hr)

Pollutant Emission Rate (gr/sec)	3.10E-06
Pollutant Emission Rate (gr/sec/source)	5.97E-08

Total	9.53E-08

Commercial Sources
Emission Rate Computation Worksheet

USA
3101 WEST EL SEGUNDO BOULEVARD

Operation: Gasoline Dispensing

Temporal Profile: 24 7 52

Process:

Liquid	450000	gal/mo	0.240	lbs/1000
Vapor	450000	gal/mo	0.494	lbs/1000

Emissions: Average Monthly

Liquid	108	lbs/mo
Vapor	222	lbs/mo
Total	330	lbs/mo

Number of Sources: 4

Speciation:

			Compound Wt Fraction	Compound Emissions	Adjusted Wt Fraction
Liquid	Benzene		0.00707	0.764	0.212
	Ethyl Benzene		0.01290	1.393	0.388
	Naphthalene		0.00174	0.188	0.052
Vapor	Benzene		0.00455	1.011	0.281
	Ethyl Benzene		0.00107	0.238	0.066
	Naphthalene		0.00000	0.001	0.000
	Total			3.595	1.000
Composite	Benzene			1.775	0.494
	Ethyl Benzene			1.631	0.454
	Naphthalene			0.189	0.053
	Totals	lbs/mo		3.595	1.000
		lbs/hr		0.0050	
		g/s/source		1.57E-04	

Commercial Sources
Emission Rate Computation Worksheet

SHELL
12810 CRENSHAW BOULEVARD

Operation: Gasoline Dispensing

Temporal Profile: 24 7 52

Process:

Liquid	700000	gal/mo	0.240	lbs/1000
Vapor	700000	gal/mo	0.494	lbs/1000

Emissions: Average Monthly

Liquid	168	lbs/mo
Vapor	346	lbs/mo
Total	514	lbs/mo

Number of Sources: 9

Speciation:

			Compound Wt Fraction	Compound Emissions	Adjusted Wt Fraction
Liquid	Benzene		0.00707	1.188	0.212
	Ethyl Benzene		0.01290	2.167	0.388
	Naphthalene		0.00174	0.292	0.052
Vapor	Benzene		0.00455	1.573	0.281
	Ethyl Benzene		0.00107	0.370	0.066
	Naphthalene		0.00000	0.001	0.000
	Total			5.592	1.000
Composite	Benzene			2.761	0.494
	Ethyl Benzene			2.537	0.454
	Naphthalene			0.294	0.053
	Totals	lbs/mo		5.592	1.000
		lbs/hr		0.0077	
		g/s/source		1.08E-04	

APPENDIX C

Gasoline Dispensing Facility Permits to Construct and Operate

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

PERMIT TO CONSTRUCT/OPERATE

Permit No.
N27189
A/N 545360

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner or Operator : TESORO (USA) 63066
19100 RIDGEWOOD PKY , MS:TX1-022
SAN ANTONIO, TX 78259

ID 171700

Equipment Location: 3101 W EL SEGUNDO BLVD, HAWTHORNE, CA 90250

Equipment Description:

Fuel Storage and Dispensing Facility Consisting of:

1) 1 - GASOLINE UNDERGROUND STORAGE TANK, 15,000 GALLON CAPACITY, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM OPW (VR-102-B/L), 1 METHANOL COMPATIBLE.

2) 2 - GASOLINE UNDERGROUND STORAGE TANKS, EACH 12,000 GALLON CAPACITY, EQUIPPED WITH PHASE I VAPOR RECOVERY SYSTEM OPW (VR-102-B/L), 2 METHANOL COMPATIBLE.

3) 8 - GASOLINE BALANCE NOZZLES DISPENSING 24 PRODUCTS EQUIPPED WITH PHASE II VAPOR RECOVERY SYSTEM, VAPOR SYSTEMS TECHNOLOGIES, INC., PHASE II ENHANCED VAPOR RECOVERY (EVR) SYSTEM WITH A FRANKLIN FUELING SYSTEMS HEALY CLEAN AIR SEPARATOR PROCESSOR INCLUDING VEEDER-ROOT IN-STATION DIAGNOSTICS (ISD) SYSTEM (VR-204-M).

CONDITIONS

SECTION I: GENERAL CONDITIONS

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

SECTION II: PHASE I VAPOR RECOVERY SYSTEM AND TESTING REQUIREMENTS

3. EXCEPT FOR DIESEL TRANSFERS, PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.

4. DEPENDING ON THE SYSTEM CONFIGURATION, EITHER A LEAK RATE TEST OF DROP TUBE/DRAIN VALVE ASSEMBLY SHALL BE CONDUCTED TO QUANTIFY THE PRESSURE INTEGRITY OF BOTH THE DROP TUBE AND DRAIN VALVE SEAL OR A LEAK RATE TEST OF DROP TUBE OVERFILL PREVENTION DEVICE AND DRAIN VALVE SHALL BE CONDUCTED TO QUANTIFY THE PRESSURE INTEGRITY OF THE DROP TUBE OVERFILL PREVENTION DEVICE AND THE PRESSURE INTEGRITY OF THE SPILL CONTAINER DRAIN VALVE. EITHER TEST SHALL BE CONDUCTED IN ACCORDANCE WITH TEST PROCEDURE METHOD TP-201.1C (OCTOBER 8, 2003) OR TP-201.1D (OCTOBER 8, 2003), RESPECTIVELY. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.

5. A STATIC TORQUE TEST OF ROTATABLE PHASE I ADAPTORS SHALL BE CONDUCTED TO QUANTIFY THE AMOUNT OF STATIC TORQUE REQUIRED TO START THE ROTATION OF THE ROTATABLE PHASE I ADAPTORS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST PROCEDURE METHOD OUTLINED IN TP-201.1B (OCTOBER 8, 2003) AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.

6. A LEAK RATE AND CRACKING PRESSURE TEST OF PRESSURE/VACUUM RELIEF VENT VALVES SHALL BE CONDUCTED WITHIN TEN DAYS (10) AFTER THE START OF OPERATION OF THE PHASE I EVR EQUIPMENT AND AT LEAST ONCE EVERY THREE (3) YEARS THEREAFTER TO DETERMINE THE PRESSURE AND VACUUM AT WHICH THE PRESSURE/VACUUM VENT VALVE ACTUATES, AND TO DETERMINE THE VOLUMETRIC LEAK RATE AT A GIVEN PRESSURE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE TEST PROCEDURE METHOD TP-201.1E (OCTOBER 8, 2003). RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST. THIS TEST RESULT SHALL BE KEPT ON SITE FOR THREE (3) YEARS AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

SECTION III: PHASE II VAPOR RECOVERY SYSTEM AND TESTING REQUIREMENTS

7. EXCEPT FOR DIESEL TRANSFERS, PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES, AS DEFINED IN RULE 461.

8. THE STATIC PRESSURE LEAK DECAY TEST TP-201.3, SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT VERSION OF EXHIBIT 4 OF CARB EXECUTIVE ORDER VR-204 VERIFICATION OF COMPLETING EACH STEP AS OUTLINED SHALL BE DOCUMENTED BY SUBMITTING A COPY OF EXHIBIT 4 TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

9. A STATIC PRESSURE INTEGRITY TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT THE STORAGE TANKS, THE REMOTE AND/OR NOZZLE VAPOR RECOVERY CHECK VALVES, ASSOCIATED VAPOR RETURN PIPING AND FITTINGS ARE FREE FROM VAPOR LEAKS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE METHOD TP-201.3 (MARCH 17, 1999), AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.

10. THE PHASE II VAPOR RECOVERY SYSTEM SHALL BE INSTALLED, OPERATED, AND MAINTAINED SUCH THAT THE MAXIMUM ALLOWABLE PRESSURE THROUGH THE SYSTEM INCLUDING NOZZLE, VAPOR HOSE, SWIVELS, AND UNDERGROUND PIPING DOES NOT EXCEED THE DYNAMIC BACK PRESSURES DESCRIBED BY THE CALIFORNIA AIR RESOURCES BOARD EXECUTIVE ORDER BY WHICH THE SYSTEM WAS CERTIFIED:

NITROGEN FLOWRATES (CFH)	DYNAMIC BACK PRESSURE (INCHES OF WATER)
60	0.35
80	0.62

DYNAMIC BACK PRESSURE TESTS SHALL BE CONDUCTED TO DETERMINE THE PHASE II SYSTEM VAPOR RECOVERY BACK PRESSURES. THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE TP-201.4, METHODOLOGY 1 (JULY 3, 2002); AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. FURTHERMORE, CARB TEST PROCEDURE TP-201.4, METHODOLOGY 6 (JULY 3, 2002); SHALL BE CONDUCTED WITHIN 10 (TEN) DAYS FROM START OF OPERATION AS A PERFORMANCE TEST ONLY. A COPY OF THE TP-201.4, METHODOLOGY 6 TEST RESULT SHALL REMAIN PERMANENTLY ON SITE. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TESTS.

11. A LIQUID REMOVAL TEST SHALL BE CONDUCTED TO QUANTIFY THE REMOVAL RATE OF LIQUID FROM THE VAPOR PASSAGE OF A PHASE II BALANCE SYSTEM HOSE EQUIPPED WITH A LIQUID REMOVAL DEVICE. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 5 OF CARB EXECUTIVE ORDER VR-204 AS A PERFORMANCE TEST AND REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

12. THE DYNAMIC BACK PRESSURE TESTS TP-201.4, SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 6 OF CARB EXECUTIVE ORDER VR-204 VERIFICATION OF COMPLETING EACH STEP AS OUTLINED SHALL BE DOCUMENTED BY SUBMITTING A COPY OF EXHIBIT 6 TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

13. A VEEDER-ROOT VAPOR PRESSURE SENSOR VERIFICATION TEST SHALL BE CONDUCTED TO DETERMINE THE PRESSURE MANAGEMENT CONTROL VAPOR PRESSURE SENSOR IS OPERATING IN ACCORDANCE WITH THE PRESSURE SENSOR REQUIREMENTS. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 10 OF CARB EXECUTIVE ORDER VR-204 AS A PERFORMANCE TEST AND REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

14. A NOZZLE BAG TEST SHALL BE CONDUCTED ON THE VST PHASE II EVR NOZZLES TO VERIFY THE INTEGRITY OF THE VAPOR VALVE. THE TEST SHALL BE CONDUCTED ON ANY NEWLY INSTALLED OR REPLACED VST PHASE II EVR NOZZLES AND IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 7 OF CARB EXECUTIVE ORDER VR-204 RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

15. A FRANKLIN FUELING SYSTEMS HEALY CLEAN AIR SEPARATOR STATIC PRESSURE PERFORMANCE TEST SHALL BE CONDUCTED TO QUANTIFY THE VAPOR TIGHTNESS OF THE HEALY CLEAN AIR SEPARATOR PRESSURE MANAGEMENT SYSTEM. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 14 OF CARB EXECUTIVE ORDER VR-204 AS A PERFORMANCE TEST AND AS A REVERIFICATION TEST. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

SECTION IV: IN-STATION DIAGNOSTICS SYSTEM AND TESTING REQUIREMENTS

16. AN ISD VAPOR FLOW METER OPERABILITY TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST VERSION OF EXHIBIT 17 FOR THE VEEDER-ROOT ISD SYSTEM OF CARB EXECUTIVE ORDER VR-204 TO VERIFY THE EQUIPMENT'S OPERABILITY FOR VAPOR CONTAINMENT MONITORING AND VAPOR COLLECTION MONITORING. THE TEST SHALL BE CONDUCTED AS A PERFORMANCE TEST AND REVERIFICATION TEST. FURTHERMORE, THE ISD OPERABILITY TEST SHALL BE CONDUCTED IMMEDIATELY WHENEVER A VAPOR PRESSURE SENSOR OR A VAPOR FLOW METER IS REPLACED. RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE WITHIN SEVENTY-TWO (72) HOURS OF TEST.

17. WITHIN TWO (2) HOURS OF DETECTING THE FIRST ISD WARNING ALARM BY THE ISD SYSTEM, THE FACILITY ATTENDANT SHALL NOTIFY THE RESPONSIBLE COMPANY OFFICIAL OR THEIR DESIGNEE AND REQUEST IMMEDIATE SERVICE TO CORRECT THE PROBLEM. ALL INFORMATION RELATING TO THE ALARM EVENT AND REPORTING SHALL BE IMMEDIATELY RECORDED ON AN AQMD APPROVED FORM AND SHALL BE MADE AVAILABLE TO THE DISTRICT REPRESENTATIVE UPON REQUEST. ONLY PERSONS AUTHORIZED BY THE APPLICABLE ARB CERTIFICATION EXECUTIVE ORDERS SHALL BE ALLOWED TO MAKE VAPOR RECOVERY OR ISD SYSTEM REPAIRS.

18. IF A SECOND ISD WARNING ALARM OCCURS INDICATING THAT THE SAME PROBLEM STILL EXISTS OR IF A FAILURE ALARM OCCURS WHERE GASOLINE DISPENSING IS TERMINATED, THE ISD SYSTEM MAY BE RESET TO ALLOW FOR VEHICLE FUELING TO RESUME ONLY IF:

A) THE FUELING POINT(S) ASSOCIATED WITH THE PROBLEM THAT TRIGGERED THE FAILURE ALARM IS ISOLATED AND NOT OPERATED UNTIL THE REQUIRED REPAIRS HAVE BEEN COMPLETED; OR

B) AN ORDER FOR ABATEMENT OR OTHER ADMINISTRATIVE RELIEF HAS BEEN ISSUED BY THE AQMD HEARING BOARD ALLOWING GASOLINE DISPENSING TO CONTINUE; OR

C) ALL REQUIRED REPAIRS TO CORRECT THE PROBLEM THAT TRIGGERED THE SECOND WARNING OR FAILURE ALARM HAVE BEEN COMPLETED, AND THE NECESSARY APPLICABLE TESTS OR PROCEDURES HAVE BEEN PERFORMED. A LISTING OF THE REQUIRED TESTS AND OR PROCEDURES CAN BE FOUND IN ARB EXECUTIVE ORDER VR-204 INSTALLATION, OPERATION, AND MAINTENANCE MANUAL, SECTION 12 (VEEDER-ROOT: ISD INSTALLATION MANUAL), SUBSECTION 5 (OPERATION), TABLES 3 (ISD ALARM SUMMARY), AND TABLES 4 AND 5 (OTHER ALARMS).

AT A MINIMUM, ALL INFORMATION RELATING TO THE ALARM EVENT, COURSE OF ACTION TAKEN, REPAIRS MADE, AND TESTS OR PROCEDURES PERFORMED SHALL BE IMMEDIATELY RECORDED ON AN AQMD APPROVED FORM AND SHALL BE MADE AVAILABLE TO THE DISTRICT REPRESENTATIVE UPON REQUEST.

19. THE CLEAR TEST AFTER REPAIR (RESET) FUNCTION FOR THE VEEDER-ROOT ISD SYSTEM SHALL ONLY BE UTILIZED ONCE AFTER THE FIRST ISD WARNING ALARM OR IF THE OWNER/OPERATOR HAS COMPLETED EITHER OF THE PARAMETERS MENTIONED IN THE ABOVE PERMIT CONDITION.

20. THERE SHALL BE NO GASOLINE DISPENSING IF THE ISD SYSTEM IS SHUT OFF, TAMPERED WITH, DISCONNECTED, OR OTHERWISE DISABLED.

SECTION V: GENERAL REQUIREMENTS

21. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS.

22. ALL PERMIT CONDITIONS APPLICABLE TO THE EQUIPMENT DESCRIBED IN THE PREVIOUS PERMIT TO OPERATE N27002 SHALL REMAIN IN EFFECT UNTIL THE NEW OR MODIFIED EQUIPMENT IS CONSTRUCTED AND OPERATED AS DESCRIBED IN THIS NEW PERMIT. THIS PERMIT TO CONSTRUCT/OPERATE SHALL BECOME INVALID IF THE MODIFICATION AS DESCRIBED IN THE EQUIPMENT DESCRIPTION HAS NOT BEEN COMPLETED WITHIN ONE YEAR FROM THE ISSUE DATE. IF THE MODIFICATION HAS NOT BEEN COMPLETED WITHIN ONE YEAR FROM THE ISSUE DATE OF THE PERMIT, A WRITTEN REQUEST SHALL BE SUBMITTED TO THE AQMD (ATTENTION: RANDY MATSUYAMA) TO REINSTATE THE PREVIOUSLY INACTIVATED PERMIT TO OPERATE. A NEW APPLICATION SHALL BE FILED IF THERE ARE PLANS TO CONTINUE WITH THE MODIFICATION. FURTHERMORE, THIS CONDITION DOES NOT ALLOW ANY TIME EXTENSIONS TO ANY MODIFICATIONS REQUIRED BY THE CALIFORNIA AIR RESOURCES BOARD OR AQMD.

23. THE DISTRICT AT ITS DISCRETION MAY WISH TO WITNESS THE INSTALLATION AND/OR PERFORMANCE TESTING OF THE NEW VAPOR RECOVERY EQUIPMENT. AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE INSTALLATION OF THE EQUIPMENT AND ANY OF THE MENTIONED TESTING REQUIREMENTS IN THIS PERMIT, THE APPLICANT SHALL NOTIFY THE AQMD BY E-MAIL AT R461TESTING@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 396-3606. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTOR; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE TESTS TO BE PERFORMED.

24. NEW EQUIPMENT INSTALLATIONS AND SUBSEQUENT SERVICE AND REPAIRS FOR ANY CERTIFIED COMPONENT FOR WHICH THIS PERMIT WAS ISSUED, SHALL ONLY BE PERFORMED BY A CURRENT AND CERTIFIED PERSON WHO HAS SUCCESSFULLY COMPLETED THE MANUFACTURER'S TRAINING COURSE AND APPROPRIATE INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION OR CARB EQUIVALENT TRAINING. COMPLETION OF ANY AQMD TRAINING COURSE DOES NOT CONSTITUTE AS A SUBSTITUTE FOR THIS REQUIREMENT. PROOF OF SUCCESSFUL COMPLETION OF ANY MANUFACTURER TRAINING COURSE SHALL BE WITH THE MANUFACTURER.

25. AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO BACK-FILLING ANY UNDERGROUND STORAGE TANK OR PIPING, THE SCAQMD SHALL BE NOTIFIED BY E-MAIL AT R461BACKFILL@AQMD.GOV. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTORS; ~~THE LOCATION OF THE FACILITY; AND THE SCHEDULED~~ START AND COMPLETION DATES OF THE ~~BACK-FILLING~~ BACK-FILLING PROCEDURE SHALL NOT COMMENCE UNTIL INSPECTED BY A DISTRICT REPRESENTATIVE.

26. UNLESS AQMD RULE 461 REQUIRES A MORE FREQUENT TESTING OR INSPECTION SCHEDULE, THE OWNER/OPERATOR SHALL BE RESPONSIBLE TO PERFORM THE SCHEDULED WEEKLY, QUARTERLY, AND ANNUAL INSPECTIONS AS OUTLINED IN THE ARB APPROVED INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR THE VST PHASE II EVR SYSTEMS, AS WELL AS ALL THE REQUIRED VAPOR RECOVERY SYSTEM TESTS AS PER THE CURRENT AND APPROPRIATE ARB EXECUTIVE ORDER.

27. THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R461TESTING@AQMD.GOV AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO ANY OF THE ABOVE MENTIONED TESTING REQUIREMENTS. SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR; THE NAME OF THE CONTRACTOR; THE LOCATION OF THE FACILITY; AND THE SCHEDULED START AND COMPLETION DATES OF THE TESTS TO BE PERFORMED.

28. THE TESTING FOR THE ABOVE MENTIONED TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT RULE 461 AMENDMENT OR CARB EXECUTIVE ORDER REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

29. ALL RECORDS AND TEST RESULTS THAT ARE REQUIRED TO BE MAINTAINED BY RULE 461 SHALL BE KEPT ON SITE FOR FOUR YEARS AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

SECTION VI: GASOLINE THROUGHPUT REQUIREMENTS

30. THE MAXIMUM QUANTITY OF GASOLINE DISPENSED FROM THE STORAGE TANKS AT THIS FACILITY SHALL NOT EXCEED 450,000 GALLONS IN ANY ONE CALENDAR MONTH NOR 5,400,000 GALLONS IN ANY ONE CALENDAR YEAR.

31. RECORDS OF MONTHLY AND ANNUAL FUEL DISPENSED SHALL BE PREPARED, SHALL BE RETAINED ON SITE FOR TWO YEARS, AND SHALL BE MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

PERMIT TO CONSTRUCT/OPERATE

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M.Bailey/JM04
12/15/2012

PERMIT TO CONSTRUCT/OPERATE

Permit No
N31912
A/N 612633

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership.
If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner
or Operator: SLG CRENSHAW SHELL, INC
12810 CRENSHAW BLVD.
GARDENA, CA 90249-1542

ID 159865

Equipment Location: 12810 CRENSHAW BLVD., GARDENA, CA 90249-1542

Equipment Description:

Fuel Storage and Dispensing Facility Consisting of:

1) 8 - Gasoline Balance Nozzles Dispensing 24 Products Equipped with Balance Phase II Enhanced Vapor Recovery (EVR) System with a Franklin Fueling Systems Healy Clean Air Separator Processor Including Veeder-Root In-Station Diagnostics (ISD) System with Software Version Number 1.05 or Newer (VR-204-W).

2) 3 - Gasoline Underground Storage Tanks, Each 10,000 Gallon Capacity, Equipped with Phase I Vapor Recovery System Phil-Tite/EBW/FFS (VR-101-D/Q), Not Methanol Compatible.

Conditions:

SECTION I: GENERAL CONDITIONS

1. Operation of this equipment shall be in compliance with all data and specifications submitted with the application under which this permit was issued, unless otherwise noted below.

2. This equipment shall be properly maintained and kept in good operating condition at all times.

SECTION II: PHASE I VAPOR RECOVERY SYSTEM AND TESTING REQUIREMENTS

3. Except for diesel transfers, Phase I vapor recovery systems shall be in full operation whenever gasoline fuel is being transferred into storage tanks.

4 A static torque test of rotatable phase I adaptors shall be conducted to quantify the amount of static torque required to start the rotation of the rotatable of the rotatable phase I adaptors. The test shall be conducted in accordance with the test procedure method outlined in TP-201.1B (October 8, 2003) as a performance test and as a reverification test. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

5. Depending on the system configuration, either a leak rate test of drop tube/drain valve assembly shall be conducted to quantify the pressure integrity of both the drop tube and drain valve seal or a leak rate test of drop tube overfill prevention device and drain valve shall be conducted to quantify the pressure integrity of the drop tube overfill prevention device and the pressure integrity of the spill container drain valve. Either test shall be conducted in accordance with test procedure method TP-201.1C (October 8, 2003) or TP-201.1D (October 8, 2003), respectively. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

6. A leak rate and cracking pressure test of pressure/vacuum relief vent valves shall be conducted within ten (10) days after the start of operation of the phase I EVR equipment and at least once every three (3) years thereafter to determine the pressure and vacuum at which the pressure/vacuum vent valve actuates, and to determine the volumetric leak rate at a given pressure. The test shall be conducted in accordance with the test procedure method TP-201.1E (October 8, 2003). Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test. This test result shall be kept on site for three (3) years and made available to District representatives upon request.

SECTION III: PHASE II VAPOR RECOVERY SYSTEM AND TESTING REQUIREMENTS

7. Except for diesel transfers, Phase II vapor recovery systems shall be in full operation whenever fuel is being transferred into motor vehicles, as defined in Rule 461.

8. A static pressure integrity test shall be conducted to demonstrate that the storage tanks, the remote and/or nozzle vapor recovery check valves, associated vapor return piping and fittings are free from vapor leaks. The test shall be conducted in accordance with CARB test procedure method TP-201.3 (March 17, 1999), as a performance test and as a reverification test. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

9. The static pressure leak decay test TP-201.3, shall be conducted in accordance with the most recent version of Exhibit 4 of CARB Executive Order VR-204. Verification of completing each step as outlined shall be documented by submitted a copy of Exhibit 4 to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

10. The Phase II vapor recovery system shall be installed, operated, and maintained such that the maximum allowable pressure through the system including nozzle, vapor hose, swivels, and underground piping does not exceed the dynamic back pressures described by the California Air Resources Board Executive Order by which the system was certified:

NITROGEN FLOWRATES (CFH)	DYNAMIC BACK PRESSURE (Inches of Water)
60	0.35
80	0.62

Dynamic back pressure tests shall be conducted to determine the Phase II system vapor recovery back pressures. The tests shall be conducted in accordance with CARB test procedure TP-201.4, Methodology 1 (July 3, 2002); as a performance test and as a reverification test. Furthermore, CARB test procedure TP-201.4, Methodology 6 (July 3, 2002); shall be conducted within ten (10) days from start of operation as a performance test only. A copy of the TP-201.4, Methodology 6 test result shall remain permanently on site. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of tests.

11. The dynamic back pressure tests TP-201.4, shall be conducted in accordance with the latest version of Exhibit 6 of CARB Executive Order VR-204. Verification of completing each step as outlined shall be documented by submitting a copy of Exhibit 6 to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

12. A liquid removal test shall be conducted to quantify the removal rate of liquid from the vapor passage of a Phase II balance system hose equipped with a liquid removal device. The test shall be conducted in accordance with the latest version of Exhibit 5 of CARB Executive Order VR-204, as a performance test and reverification test. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

13. A nozzle bag test shall be conducted on the balance Phase II EVR nozzles to verify the integrity of the vapor valve. The test shall be conducted on any newly installed or replaced balance Phase II EVR nozzles and in accordance with the latest version of Exhibit 7 OF CARB Executive Order VR-204. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

14. A vapor pressure sensor verification test shall be conducted to determine the pressure management control vapor pressure sensor is operating in accordance with the pressure sensor requirements. The test shall be conducted in accordance with the latest version of Exhibit 10 of CARB Executive Order VR-204, as a performance test and as a reverification test. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

15. A Franklin Fueling Systems Healy Clean Air Separator static pressure performance test shall be conducted to quantify the vapor tightness of the Healy Clean Air Separator pressure management system. The test shall be conducted in accordance with the latest version of Exhibit 14 of CARB Executive Order VR-204, as a performance test and as a reverification test. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

SECTION IV: IN-STATION DIAGNOSTICS SYSTEM AND TESTING REQUIREMENTS

16. An ISD vapor flow meter operability test shall be conducted in accordance with the latest version of Exhibit 17 for the Veeder-Root ISD system of CARB Executive Order VR-204 to verify the equipment's operability for vapor containment monitoring and vapor collection monitoring. The test shall be conducted as a performance test and reverification test. Furthermore, the ISD operability test shall be conducted immediately whenever a vapor pressure sensor or a vapor flow meter is replaced. Results shall be submitted to the SCAQMD, Office of Compliance and Enforcement within seventy-two (72) hours of test.

17 Within two (2) hours of detecting the first ISD warning alarm by the ISD system, the facility attendant shall notify the responsible company official or their designee and request immediate service to correct the problem. All information relating to the alarm event and reporting shall be immediately recorded on an SCAQMD approved form and shall be made available to the District representative upon request. Only persons authorized by the applicable CARB certification Executive Orders shall be allowed to make vapor recovery repairs, ISD system repairs, or to reset ISD alarms

18. If a second ISD warning alarm occurs indicating that the same problem still exists or if a failure alarm occurs where gasoline dispensing is terminated, the ISD system may be reset to allow for vehicle fueling to resume only if:

A) The fueling point(s) associated with the problem that triggered the failure alarm is isolated and not operated until the required repairs have been completed; or

B) An order for abatement or other administrative relief has been issued by the SCAQMD Hearing Board allowing gasoline dispensing to continue; or

(') All required repairs to correct the problem that triggered the second warning or failure alarm have been completed, and the necessary applicable tests or procedures have been performed. A listing of the required tests and or procedures can be found in CARB'S Executive Order VR-204 installation, operation, and maintenance manual, section 12 (Veeder-Root: ISD installation manual), subsection 5 (operation), table 3 (ISD alarm summary), and tables 4 and 5 (other alarms).

At a minimum, all information relating to the alarm event, course of action taken, repairs made, and tests or procedures performed shall be immediately recorded on an SCAQMD approved form and shall be made available to the District representative upon request.

19. The clear test after repair (reset) function for the Veeder-Root ISD system shall only be utilized once after the first ISD warning alarm or if the owner/operator has completed either condition 18A, 18B, or 18C above. The clear test after repair (reset) function for a specific alarm shall not be utilized when there is no such alarm posted.

20. There shall be no gasoline dispensing if the ISD system is shut off, tampered with, disconnected, or otherwise disabled

SECTION V: GENERAL REQUIREMENTS

21. All Phase I and Phase II vapor recovery equipment at this facility shall be installed, operated and maintained to meet all California Air Resources Board certification requirements

22. All permit conditions applicable to the equipment described in the previous Permit to Operate N24720 shall remain in effect until the new or modified equipment is constructed and operated as described in this new permit. This Permit to Construct/Operate shall become invalid if the modification as described in the equipment description has not been completed within one year from the issue date. If the modification has not been completed within one year from the issue date of the permit, a written request shall be submitted to the SCAQMD (Attention: Randy Matsuyama) to reinstate the previously inactivated permit to operate. A new application shall be filed if there are plans to continue with the modification. Furthermore, this condition does not allow any time extensions to any modifications required by the California Air Resources Board or SCAQMD.

23. The District at its discretion may wish to witness the installation and/or performance testing of the new vapor recovery equipment. At least seventy-two (72) hours prior to the installation of the equipment and any of the mentioned testing requirements in this permit, the applicant shall notify the SCAQMD by methods specified at the time by the Executive Officer. Such notification shall include the name of the owner or operator, the name of the contractor, the location of the facility, and the scheduled start and completion dates of the tests to be performed.

24. New equipment installations and subsequent service and repairs for any certified component for which this permit was issued, shall only be performed by a current and certified person who has successfully completed the manufacturer's training course and appropriate International Code Council (ICC) certification. Completion of any SCAQMD training course does not constitute as a substitute for this requirement Proof of successful completion of any manufacturer training course shall be with the manufacturer.

25. At least seventy-two (72) hours prior to back-filling any underground storage tank or piping, the SCAQMD shall be notified electronically or other means as specified by the Executive Officer. Such notification shall include the name of the owner or operator; the name of the contractors, the location of the facility; and the scheduled

start and completion dates of the back-filling procedure. The back-filling procedure shall not commence until inspected by a District representative

26. Unless SCAQMD Rule 461 requires a more frequent testing or inspection schedule, the owner/operator shall be responsible to perform the scheduled weekly, quarterly, and annual inspections as outlined in the CARB approved Installation, Operation, and Maintenance manual for both the phase I and phase II EVR system, as well as all the required vapor recovery system tests as per the current and appropriate CARB Executive Order

27. The SCAQMD shall be notified electronically or other means as specified by the Executive Officer at least seventy-two (72) hours prior to any of the above mentioned testing requirements. Such notification shall include the name of the owner or operator, the name of the contractor, the location of the facility, and the scheduled start and completion dates of the tests to be performed.

28. A copy of the pass/fail test results shall be sent electronically or other means as specified by the Executive Officer within seventy-two (72) hours after each test is conducted. Furthermore, the final test results demonstrating compliance shall be submitted electronically or other means as specified by the Executive Officer within fourteen (14) calendar days from the date when all tests were passed. The test report shall include at a minimum all the required records of all tests performed, test data, current SCAQMD facility ID number of the location being tested, the equipment permit to operate or application number, the SCAQMD ID number of the company performing the tests, a statement whether the system or component tested meets the required standards, and the name, SCAQMD tester ID number and signature of the person responsible for conducting the tests.

29. The testing for the above mentioned tests shall be conducted in accordance with the most recent Rule 461 amendment or CARB Executive Order requirements, whichever is more stringent.

30. All records and test results that are required to be maintained by Rule 461 shall be kept on site for four (4) years and made available to District representatives upon request.

SECTION VI: GASOLINE THROUGHPUT REQUIREMENTS

31. The maximum quantity of gasoline dispensed from the gasoline storage tanks at this facility shall not exceed 700,000 gallons in any one calendar month nor 8,400,000 gallons in any one calendar year.

32. Records of monthly annual fuel dispensed shall be prepared, shall be retained on site for two years, and shall be made available to District representatives upon request.

33. The owner/operator shall submit the facility's monthly gasoline throughput data for the previous calendar year to the Executive Officer on or before March 1 following each calendar year.

NOTICE

In accordance with Rule 206, this permit to operate or copy shall be posted on or within 8 meters of the equipment.

PERMIT TO CONSTRUCT/OPERATE

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State Of California or the rules of the Air Quality Management District. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

Executive Officer

By LAKI TISOPULOS, PhD/JM04
05/25/2019

APPENDIX D

Dispersion Model Input Table

Dispersion Model Input Table

ID	X	Y	ZS	RH	SY	SZ	DPM	GASOLINE
HCT_1	377462.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_2	377472.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_3	377482.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_4	377492.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_5	377502.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_6	377512.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_7	377522.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_8	377532.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_9	377542.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_10	377552.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_11	377562.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_12	377572.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_13	377582.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_14	377592.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_15	377602.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_16	377612.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_17	377622.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_18	377632.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_19	377642.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_20	377652.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_21	377662.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_22	377672.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_23	377682.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_24	377692.0	3753710.0	16	4.15	4.65	1.93	1.34E-08	
HCT_25	377462.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_26	377472.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_27	377482.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_28	377492.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_29	377502.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_30	377512.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_31	377522.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_32	377532.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_33	377542.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_34	377552.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_35	377562.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_36	377572.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_37	377582.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_38	377592.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_39	377602.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_40	377612.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_41	377682.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_42	377692.0	3753720.0	16	4.15	4.65	1.93	1.34E-08	
HCT_43	377462.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_44	377472.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_45	377482.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_46	377492.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_47	377582.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_48	377592.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_49	377602.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_50	377612.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_51	377682.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_52	377692.0	3753730.0	16	4.15	4.65	1.93	1.34E-08	
HCT_53	377462.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_54	377472.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_55	377482.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_56	377492.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_57	377582.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_58	377592.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_59	377602.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_60	377612.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_61	377682.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_62	377692.0	3753740.0	16	4.15	4.65	1.93	1.34E-08	
HCT_63	377462.0	3753750.0	16	4.15	4.65	1.93	1.34E-08	
HCT_64	377472.0	3753750.0	16	4.15	4.65	1.93	1.34E-08	

HCT_65	377482.0	3753750.0	16	4.15	4.65	1.93	1.34E-08
HCT_66	377492.0	3753750.0	16	4.15	4.65	1.93	1.34E-08
HCT_67	377582.0	3753750.0	16	4.15	4.65	1.93	1.34E-08
HCT_68	377592.0	3753750.0	16	4.15	4.65	1.93	1.34E-08
HCT_69	377602.0	3753750.0	16	4.15	4.65	1.93	1.34E-08
HCT_70	377612.0	3753750.0	16	4.15	4.65	1.93	1.34E-08
HCT_71	377682.0	3753750.0	16	4.15	4.65	1.93	1.34E-08
HCT_72	377692.0	3753750.0	16	4.15	4.65	1.93	1.34E-08
HCT_73	377462.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_74	377472.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_75	377482.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_76	377492.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_77	377582.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_78	377592.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_79	377602.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_80	377612.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_81	377682.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_82	377692.0	3753760.0	16	4.15	4.65	1.93	1.34E-08
HCT_83	377462.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_84	377472.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_85	377482.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_86	377492.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_87	377582.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_88	377592.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_89	377602.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_90	377612.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_91	377682.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_92	377692.0	3753770.0	16	4.15	4.65	1.93	1.34E-08
HCT_93	377462.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_94	377472.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_95	377482.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_96	377492.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_97	377582.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_98	377592.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_99	377602.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_100	377612.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_101	377682.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_102	377692.0	3753780.0	16	4.15	4.65	1.93	1.34E-08
HCT_103	377462.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_104	377472.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_105	377482.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_106	377492.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_107	377582.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_108	377592.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_109	377602.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_110	377612.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_111	377682.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_112	377692.0	3753790.0	16	4.15	4.65	1.93	1.34E-08
HCT_113	377462.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_114	377472.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_115	377482.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_116	377492.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_117	377582.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_118	377592.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_119	377602.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_120	377612.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_121	377682.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_122	377692.0	3753800.0	16	4.15	4.65	1.93	1.34E-08
HCT_123	377462.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_124	377472.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_125	377482.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_126	377492.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_127	377582.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_128	377592.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_129	377602.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_130	377612.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_131	377682.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_132	377692.0	3753810.0	16	4.15	4.65	1.93	1.34E-08
HCT_133	377462.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_134	377472.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_135	377482.0	3753820.0	16	4.15	4.65	1.93	1.34E-08

HCT_136	377492.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_137	377582.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_138	377592.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_139	377602.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_140	377612.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_141	377682.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_142	377692.0	3753820.0	16	4.15	4.65	1.93	1.34E-08
HCT_143	377462.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_144	377472.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_145	377482.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_146	377492.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_147	377582.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_148	377592.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_149	377602.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_150	377612.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_151	377682.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_152	377692.0	3753830.0	16	4.15	4.65	1.93	1.34E-08
HCT_153	377462.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_154	377472.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_155	377482.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_156	377492.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_157	377582.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_158	377592.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_159	377602.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_160	377612.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_161	377682.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_162	377692.0	3753840.0	16	4.15	4.65	1.93	1.34E-08
HCT_163	377462.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_164	377472.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_165	377482.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_166	377492.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_167	377582.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_168	377592.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_169	377602.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_170	377612.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_171	377682.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_172	377692.0	3753850.0	16	4.15	4.65	1.93	1.34E-08
HCT_173	377462.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_174	377472.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_175	377482.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_176	377492.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_177	377582.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_178	377592.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_179	377602.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_180	377612.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_181	377682.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_182	377692.0	3753860.0	16	4.15	4.65	1.93	1.34E-08
HCT_183	377462.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_184	377472.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_185	377482.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_186	377492.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_187	377582.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_188	377592.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_189	377602.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_190	377612.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_191	377682.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_192	377692.0	3753870.0	16	4.15	4.65	1.93	1.34E-08
HCT_193	377462.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_194	377472.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_195	377482.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_196	377492.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_197	377582.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_198	377592.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_199	377602.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_200	377612.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_201	377682.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_202	377692.0	3753880.0	16	4.15	4.65	1.93	1.34E-08
HCT_203	377462.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_204	377472.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_205	377482.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_206	377492.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_207	377582.0	3753890.0	16	4.15	4.65	1.93	1.34E-08

HCT_208	377592.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_209	377602.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_210	377612.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_211	377682.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_212	377692.0	3753890.0	16	4.15	4.65	1.93	1.34E-08
HCT_213	377462.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_214	377472.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_215	377482.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_216	377492.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_217	377582.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_218	377592.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_219	377602.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_220	377612.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_221	377682.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_222	377692.0	3753900.0	16	4.15	4.65	1.93	1.34E-08
HCT_223	377462.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_224	377472.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_225	377482.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_226	377492.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_227	377582.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_228	377592.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_229	377602.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_230	377612.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_231	377682.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_232	377692.0	3753910.0	16	4.15	4.65	1.93	1.34E-08
HCT_233	377462.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_234	377472.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_235	377482.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_236	377492.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_237	377582.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_238	377592.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_239	377602.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_240	377612.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_241	377682.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_242	377692.0	3753920.0	16	4.15	4.65	1.93	1.34E-08
HCT_243	377462.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_244	377472.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_245	377482.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_246	377492.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_247	377582.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_248	377592.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_249	377602.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_250	377612.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_251	377682.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_252	377692.0	3753930.0	16	4.15	4.65	1.93	1.34E-08
HCT_253	377462.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_254	377472.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_255	377482.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_256	377492.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_257	377582.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_258	377592.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_259	377602.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_260	377612.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_261	377682.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_262	377692.0	3753940.0	16	4.15	4.65	1.93	1.34E-08
HCT_263	377462.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_264	377472.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_265	377482.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_266	377492.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_267	377582.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_268	377592.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_269	377602.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_270	377612.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_271	377682.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_272	377692.0	3753950.0	16	4.15	4.65	1.93	1.34E-08
HCT_273	377462.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_274	377472.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_275	377482.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_276	377492.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_277	377582.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_278	377592.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_279	377602.0	3753960.0	16	4.15	4.65	1.93	1.34E-08

HCT_280	377612.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_281	377682.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_282	377692.0	3753960.0	16	4.15	4.65	1.93	1.34E-08
HCT_283	377462.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_284	377472.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_285	377482.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_286	377492.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_287	377582.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_288	377592.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_289	377602.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_290	377612.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_291	377682.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_292	377692.0	3753970.0	16	4.15	4.65	1.93	1.34E-08
HCT_293	377462.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_294	377472.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_295	377482.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_296	377492.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_297	377582.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_298	377592.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_299	377602.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_300	377612.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_301	377682.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_302	377692.0	3753980.0	16	4.15	4.65	1.93	1.34E-08
HCT_303	377462.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_304	377472.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_305	377482.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_306	377492.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_307	377502.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_308	377512.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_309	377522.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_310	377532.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_311	377542.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_312	377552.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_313	377562.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_314	377572.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_315	377582.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_316	377592.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_317	377602.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_318	377612.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_319	377682.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_320	377692.0	3753990.0	16	4.15	4.65	1.93	1.34E-08
HCT_321	377462.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_322	377472.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_323	377482.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_324	377492.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_325	377502.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_326	377512.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_327	377522.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_328	377532.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_329	377542.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_330	377552.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_331	377562.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_332	377572.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_333	377582.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_334	377592.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_335	377602.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_336	377612.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_337	377622.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_338	377632.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_339	377642.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_340	377652.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_341	377662.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_342	377672.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_343	377682.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_344	377692.0	3754000.0	16	4.15	4.65	1.93	1.34E-08
HCT_345	377572.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_346	377582.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_347	377592.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_348	377602.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_349	377612.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_350	377622.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_351	377632.0	3754010.0	16	4.15	4.65	1.93	1.34E-08

HCT_352	377642.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_353	377652.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_354	377662.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_355	377672.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_356	377682.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_357	377692.0	3754010.0	16	4.15	4.65	1.93	1.34E-08
HCT_358	377662.0	3754020.0	16	4.15	4.65	1.93	1.34E-08
HCT_359	377672.0	3754020.0	16	4.15	4.65	1.93	1.34E-08
HCT_360	377682.0	3754020.0	16	4.15	4.65	1.93	1.34E-08
HCT_361	377692.0	3754020.0	16	4.15	4.65	1.93	1.34E-08
WHS1_1	377247.0	3753369.0	16	4.15	4.65	1.93	4.82E-08
WHS1_2	377257.0	3753369.0	16	4.15	4.65	1.93	4.82E-08
WHS1_3	377267.0	3753369.0	16	4.15	4.65	1.93	4.82E-08
WHS1_4	377277.0	3753369.0	16	4.15	4.65	1.93	4.82E-08
WHS1_5	377287.0	3753369.0	16	4.15	4.65	1.93	4.82E-08
WHS1_6	377247.0	3753379.0	16	4.15	4.65	1.93	4.82E-08
WHS1_7	377257.0	3753379.0	16	4.15	4.65	1.93	4.82E-08
WHS1_8	377267.0	3753379.0	16	4.15	4.65	1.93	4.82E-08
WHS1_9	377277.0	3753379.0	16	4.15	4.65	1.93	4.82E-08
WHS1_10	377287.0	3753379.0	16	4.15	4.65	1.93	4.82E-08
WHS1_11	377247.0	3753389.0	16	4.15	4.65	1.93	4.82E-08
WHS1_12	377257.0	3753389.0	16	4.15	4.65	1.93	4.82E-08
WHS1_13	377267.0	3753389.0	16	4.15	4.65	1.93	4.82E-08
WHS1_14	377277.0	3753389.0	16	4.15	4.65	1.93	4.82E-08
WHS1_15	377287.0	3753389.0	16	4.15	4.65	1.93	4.82E-08
WHS1_16	377247.0	3753399.0	16	4.15	4.65	1.93	4.82E-08
WHS1_17	377257.0	3753399.0	16	4.15	4.65	1.93	4.82E-08
WHS1_18	377267.0	3753399.0	16	4.15	4.65	1.93	4.82E-08
WHS1_19	377277.0	3753399.0	16	4.15	4.65	1.93	4.82E-08
WHS1_20	377287.0	3753399.0	16	4.15	4.65	1.93	4.82E-08
WHS1_21	377247.0	3753409.0	16	4.15	4.65	1.93	4.82E-08
WHS1_22	377257.0	3753409.0	16	4.15	4.65	1.93	4.82E-08
WHS1_23	377267.0	3753409.0	16	4.15	4.65	1.93	4.82E-08
WHS1_24	377277.0	3753409.0	16	4.15	4.65	1.93	4.82E-08
WHS1_25	377287.0	3753409.0	16	4.15	4.65	1.93	4.82E-08
WHS1_26	377247.0	3753419.0	16	4.15	4.65	1.93	4.82E-08
WHS1_27	377257.0	3753419.0	16	4.15	4.65	1.93	4.82E-08
WHS1_28	377267.0	3753419.0	16	4.15	4.65	1.93	4.82E-08
WHS1_29	377277.0	3753419.0	16	4.15	4.65	1.93	4.82E-08
WHS1_30	377287.0	3753419.0	16	4.15	4.65	1.93	4.82E-08
WHS1_31	377247.0	3753429.0	16	4.15	4.65	1.93	4.82E-08
WHS1_32	377257.0	3753429.0	16	4.15	4.65	1.93	4.82E-08
WHS1_33	377267.0	3753429.0	16	4.15	4.65	1.93	4.82E-08
WHS1_34	377277.0	3753429.0	16	4.15	4.65	1.93	4.82E-08
WHS1_35	377287.0	3753429.0	16	4.15	4.65	1.93	4.82E-08
WHS1_36	377246.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_37	377256.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_38	377266.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_39	377276.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_40	377286.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_41	377296.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_42	377306.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_43	377316.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_44	377326.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_45	377336.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_46	377346.0	3753508.0	16	4.15	4.65	1.93	4.82E-08
WHS1_47	377246.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_48	377256.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_49	377266.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_50	377276.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_51	377286.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_52	377296.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_53	377306.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_54	377316.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_55	377326.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_56	377336.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_57	377346.0	3753517.0	16	4.15	4.65	1.93	4.82E-08
WHS1_58	377246.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_59	377256.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_60	377266.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_61	377276.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_62	377286.0	3753526.0	16	4.15	4.65	1.93	4.82E-08

WHS1_63	377296.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_64	377306.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_65	377316.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_66	377326.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_67	377336.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_68	377346.0	3753526.0	16	4.15	4.65	1.93	4.82E-08
WHS1_69	377246.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_70	377256.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_71	377266.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_72	377276.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_73	377286.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_74	377296.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_75	377306.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_76	377316.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_77	377326.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_78	377336.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_79	377346.0	3753535.0	16	4.15	4.65	1.93	4.82E-08
WHS1_80	377246.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_81	377256.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_82	377266.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_83	377276.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_84	377286.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_85	377296.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_86	377306.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_87	377316.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_88	377326.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_89	377336.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_90	377346.0	3753544.0	16	4.15	4.65	1.93	4.82E-08
WHS1_91	377246.0	3753553.0	16	4.15	4.65	1.93	4.82E-08
WHS1_92	377256.0	3753553.0	16	4.15	4.65	1.93	4.82E-08
WHS1_93	377266.0	3753553.0	16	4.15	4.65	1.93	4.82E-08
WHS1_94	377276.0	3753553.0	16	4.15	4.65	1.93	4.82E-08
WHS1_95	377286.0	3753553.0	16	4.15	4.65	1.93	4.82E-08
WHS2_1	377089.5	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_2	377100.0	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_3	377110.5	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_4	377121.0	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_5	377131.5	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_6	377142.0	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_7	377152.5	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_8	377163.0	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_9	377173.5	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_10	377184.0	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_11	377194.5	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_12	377205.0	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_13	377215.5	3753503.5	16	4.15	4.65	1.93	9.53E-08
WHS2_14	377089.5	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_15	377100.0	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_16	377110.5	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_17	377121.0	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_18	377131.5	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_19	377142.0	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_20	377152.5	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_21	377163.0	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_22	377173.5	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_23	377184.0	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_24	377194.5	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_25	377205.0	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_26	377215.5	3753513.5	16	4.15	4.65	1.93	9.53E-08
WHS2_27	377089.5	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_28	377100.0	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_29	377110.5	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_30	377121.0	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_31	377131.5	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_32	377142.0	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_33	377152.5	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_34	377163.0	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_35	377173.5	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_36	377184.0	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_37	377194.5	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_38	377205.0	3753523.5	16	4.15	4.65	1.93	9.53E-08
WHS2_39	377215.5	3753523.5	16	4.15	4.65	1.93	9.53E-08

WHS2_40	377089.5	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_41	377100.0	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_42	377110.5	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_43	377121.0	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_44	377131.5	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_45	377142.0	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_46	377152.5	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_47	377163.0	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_48	377173.5	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_49	377184.0	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_50	377194.5	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_51	377205.0	3753533.5	16	4.15	4.65	1.93	9.53E-08	
WHS2_52	377215.5	3753533.5	16	4.15	4.65	1.93	9.53E-08	
USA_1	377339.0	3753712.0	16	0	4.65	1.86		1.57E-04
USA_2	377350.0	3753712.0	16	0	4.65	1.86		1.57E-04
USA_3	377339.0	3753722.0	16	0	4.65	1.86		1.57E-04
USA_4	377350.0	3753722.0	16	0	4.65	1.86		1.57E-04
SHELL_1	377397.5	3753642.0	16	0	4.65	1.86		1.08E-04
SHELL_2	377407.5	3753642.0	16	0	4.65	1.86		1.08E-04
SHELL_3	377417.5	3753642.0	16	0	4.65	1.86		1.08E-04
SHELL_4	377397.5	3753652.0	16	0	4.65	1.86		1.08E-04
SHELL_5	377407.5	3753652.0	16	0	4.65	1.86		1.08E-04
SHELL_6	377417.5	3753652.0	16	0	4.65	1.86		1.08E-04
SHELL_7	377397.5	3753662.0	16	0	4.65	1.86		1.08E-04
SHELL_8	377407.5	3753662.0	16	0	4.65	1.86		1.08E-04
SHELL_9	377417.5	3753662.0	16	0	4.65	1.86		1.08E-04

APPENDIX E

Dispersion Model Output Summary Files

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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   521 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   9862049.0 ; 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 Accepts FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates ANNUAL Averages Only

**This Run Includes: 521 Source(s);   2 Source Group(s); and   36 Receptor(s)

              with: 0 POINT(s), including
                         0 POINTCAP(s) and   0 POINTHOR(s)
               and: 521 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) =   19.00 ; 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 =   3.8 MB of RAM.

**Input Runstream File: CRENSHAW_CHRONIC_SECOND.DTA
**Output Print File: CRENSHAW_CHRONIC_SECOND.LST

**File for Summary of Results: F:\WD Passport\crenshaw\model\CRENSHAW_CHRONIC_SECOND.SUM

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KHHR_v9.SFC   Met Version: 16216
Profile file: KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:   3167   Upper air station no.:   3190
Name: NRTHORP FLD/HATHRN MUNI AP, CA   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	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	283.8	2.0
12	01	01	1	02	-2.1	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	305.	7.9	283.1	2.0
12	01	01	1	03	-9.0	0.127	-9.000	-9.000	-999.	109.	20.8	0.24	2.79	1.00	1.18	323.	7.9	282.5	2.0
12	01	01	1	04	-2.2	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	296.	7.9	282.0	2.0
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	06	-6.0	0.103	-9.000	-9.000	-999.	80.	16.7	0.24	2.79	1.00	0.97	321.	7.9	281.4	2.0
12	01	01	1	07	-4.3	0.088	-9.000	-9.000	-999.	63.	14.4	0.24	2.79	1.00	0.82	313.	7.9	280.4	2.0
12	01	01	1	08	15.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	0.55	0.00	0.	7.9	281.4	2.0
12	01	01	1	09	35.7	0.115	0.353	0.013	45.	93.	-3.8	0.24	2.79	0.32	0.63	179.	7.9	285.4	2.0
12	01	01	1	10	109.0	0.141	0.727	0.009	128.	127.	-2.3	0.24	2.79	0.24	0.70	170.	7.9	289.2	2.0
12	01	01	1	11	164.4	0.149	1.186	0.005	370.	138.	-1.8	0.24	2.79	0.21	0.70	222.	7.9	297.0	2.0
12	01	01	1	12	191.7	0.163	1.525	0.005	672.	158.	-2.1	0.24	2.79	0.20	0.79	12.	7.9	299.9	2.0
12	01	01	1	13	191.3	0.170	1.819	0.005	1144.	168.	-2.3	0.24	2.79	0.20	0.84	260.	7.9	300.9	2.0
12	01	01	1	14	161.6	0.344	1.852	0.005	1428.	483.	-22.7	0.24	2.79	0.21	2.49	260.	7.9	298.8	2.0
12	01	01	1	15	105.0	0.367	1.638	0.005	1521.	534.	-42.8	0.24	2.79	0.24	2.84	292.	7.9	293.8	2.0
12	01	01	1	16	29.7	0.383	1.079	0.005	1539.	570.	-172.5	0.24	2.79	0.33	3.22	276.	7.9	290.4	2.0
12	01	01	1	17	-24.8	0.287	-9.000	-9.000	-999.	374.	90.3	0.24	2.79	0.59	2.52	284.	7.9	289.2	2.0
12	01	01	1	18	-26.7	0.269	-9.000	-9.000	-999.	336.	79.8	0.24	2.79	1.00	2.38	285.	7.9	287.5	2.0
12	01	01	1	19	-10.2	0.137	-9.000	-9.000	-999.	133.	22.7	0.24	2.79	1.00	1.26	287.	7.9	287.5	2.0
12	01	01	1	20	-6.2	0.106	-9.000	-9.000	-999.	83.	17.2	0.24	2.79	1.00	0.99	303.	7.9	287.0	2.0
12	01	01	1	21	-7.6	0.117	-9.000	-9.000	-999.	96.	19.1	0.24	2.79	1.00	1.09	326.	7.9	286.4	2.0

```
 12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
 12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
 12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    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 -999.  -99.00   283.8   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION  19191 ***   *** 12850 Crenshaw Boulevard                                          ***        04/17/20
 *** AERMET - VERSION  16216 ***   *** Health Risk Assessment - Chronic Exposures                        ***        12:32:22
                                                                                                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                  *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS AVERAGED OVER   5 YEARS ***


                                   ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                                                                                          NETWORK
GROUP ID                        AVERAGE CONC              RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

HCT_WHS   1ST HIGHEST VALUE IS       0.00032 AT (  377392.50,  3753544.00,    16.00,    16.00,    3.40)  DC
          2ND HIGHEST VALUE IS       0.00032 AT (  377392.50,  3753532.00,    16.00,    16.00,    3.40)  DC
          3RD HIGHEST VALUE IS       0.00031 AT (  377392.50,  3753556.00,    16.00,    16.00,    3.40)  DC
          4TH HIGHEST VALUE IS       0.00031 AT (  377392.50,  3753520.00,    16.00,    16.00,    3.40)  DC
          5TH HIGHEST VALUE IS       0.00030 AT (  377392.50,  3753568.00,    16.00,    16.00,    3.40)  DC
          6TH HIGHEST VALUE IS       0.00029 AT (  377422.50,  3753628.00,    16.00,    16.00,    3.40)  DC
          7TH HIGHEST VALUE IS       0.00029 AT (  377392.50,  3753580.00,    16.00,    16.00,    3.40)  DC
          8TH HIGHEST VALUE IS       0.00029 AT (  377392.50,  3753508.00,    16.00,    16.00,    3.40)  DC
          9TH HIGHEST VALUE IS       0.00028 AT (  377407.50,  3753544.00,    16.00,    16.00,    3.40)  DC
         10TH HIGHEST VALUE IS       0.00028 AT (  377407.50,  3753556.00,    16.00,    16.00,    3.40)  DC

GASOLINE  1ST HIGHEST VALUE IS       0.76091 AT (  377407.50,  3753628.00,    16.00,    16.00,    3.40)  DC
          2ND HIGHEST VALUE IS       0.62409 AT (  377422.50,  3753628.00,    16.00,    16.00,    3.40)  DC
          3RD HIGHEST VALUE IS       0.61121 AT (  377392.50,  3753628.00,    16.00,    16.00,    3.40)  DC
          4TH HIGHEST VALUE IS       0.39843 AT (  377407.50,  3753616.00,    16.00,    16.00,    3.40)  DC
          5TH HIGHEST VALUE IS       0.35481 AT (  377392.50,  3753616.00,    16.00,    16.00,    3.40)  DC
          6TH HIGHEST VALUE IS       0.35346 AT (  377422.50,  3753616.00,    16.00,    16.00,    3.40)  DC
          7TH HIGHEST VALUE IS       0.24730 AT (  377407.50,  3753604.00,    16.00,    16.00,    3.40)  DC
          8TH HIGHEST VALUE IS       0.23163 AT (  377392.50,  3753604.00,    16.00,    16.00,    3.40)  DC
          9TH HIGHEST VALUE IS       0.22889 AT (  377422.50,  3753604.00,    16.00,    16.00,    3.40)  DC
         10TH HIGHEST VALUE IS       0.17058 AT (  377407.50,  3753592.00,    16.00,    16.00,    3.40)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  19191 ***   *** 12850 Crenshaw Boulevard                                          ***        04/17/20
 *** AERMET - VERSION  16216 ***   *** Health Risk Assessment - Chronic Exposures                        ***        12:32:22
                                                                                                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  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         1474 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of         1223 Calm Hours Identified

 A Total of          251 Missing Hours Identified (  0.57 Percent)
```

```
   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    1719       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187    1719       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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   13 Source(s),
  for Total of   1 Urban Area(s):
  Urban Population =   9862049.0 ; 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 Accepts FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates 2 Short Term Average(s) of: 1-HR   8-HR

**This Run Includes: 13 Source(s);   1 Source Group(s); and   36 Receptor(s)

               with: 0 POINT(s), including
                          0 POINTCAP(s) and   0 POINTHOR(s)
                and: 13 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 Highest Short Term Values by Receptor (RECTABLE Keyword)
        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) =   19.00 ; 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 =   3.5 MB of RAM.

**Input Runstream File: CRENSHAW_SHORT_DURATION_FIRST.DTA
**Output Print File: CRENSHAW_SHORT_DURATION_FIRST.LST

**File for Summary of Results: F:\WD Passport\crenshaw\model\CRENSHAW_SHORT_DURATION_FIRST.SUM

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT 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
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1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 1 1 1 1 1 1 1 1  1 1 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,

*** MODELOPTs: RegDFAULT CONC ELEV FLGPOL NODRYDPLT NOWETDPLT URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KHHR_v9.SFC   Met Version: 16216
Profile file: KHHR_v9.PFL
Surface format: FREE
Profile format: FREE
Surface station no.:   3167   Upper air station no.:   3190
Name: NRTHORP FLD/HATHRN MUNI AP, CA   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	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	283.8	2.0
12	01	01	1	02	-2.1	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	305.	7.9	283.1	2.0
12	01	01	1	03	-9.0	0.127	-9.000	-9.000	-999.	109.	20.8	0.24	2.79	1.00	1.18	323.	7.9	282.5	2.0
12	01	01	1	04	-2.2	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	1.00	0.53	296.	7.9	282.0	2.0
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	1.00	0.00	0.	7.9	281.4	2.0
12	01	01	1	06	-6.0	0.103	-9.000	-9.000	-999.	80.	16.7	0.24	2.79	1.00	0.97	321.	7.9	281.4	2.0
12	01	01	1	07	-4.3	0.088	-9.000	-9.000	-999.	63.	14.4	0.24	2.79	1.00	0.82	313.	7.9	280.4	2.0
12	01	01	1	08	15.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	0.55	0.00	0.	7.9	281.4	2.0
12	01	01	1	09	35.7	0.115	0.353	0.013	45.	93.	-3.8	0.24	2.79	0.32	0.63	179.	7.9	285.4	2.0
12	01	01	1	10	109.0	0.141	0.727	0.009	128.	127.	-2.3	0.24	2.79	0.24	0.70	170.	7.9	289.2	2.0
12	01	01	1	11	164.4	0.149	1.186	0.005	370.	138.	-1.8	0.24	2.79	0.21	0.70	222.	7.9	297.0	2.0
12	01	01	1	12	191.7	0.163	1.525	0.005	672.	158.	-2.1	0.24	2.79	0.20	0.79	12.	7.9	299.9	2.0
12	01	01	1	13	191.3	0.170	1.819	0.005	1144.	168.	-2.3	0.24	2.79	0.20	0.84	260.	7.9	300.9	2.0
12	01	01	1	14	161.6	0.344	1.852	0.005	1428.	483.	-22.7	0.24	2.79	0.21	2.49	260.	7.9	298.8	2.0
12	01	01	1	15	105.0	0.367	1.638	0.005	1521.	534.	-42.8	0.24	2.79	0.24	2.84	292.	7.9	293.8	2.0
12	01	01	1	16	29.7	0.383	1.079	0.005	1539.	570.	-172.5	0.24	2.79	0.33	3.22	276.	7.9	290.4	2.0
12	01	01	1	17	-24.8	0.287	-9.000	-9.000	-999.	374.	90.3	0.24	2.79	0.59	2.52	284.	7.9	289.2	2.0
12	01	01	1	18	-26.7	0.269	-9.000	-9.000	-999.	336.	79.8	0.24	2.79	1.00	2.38	285.	7.9	287.5	2.0
12	01	01	1	19	-10.2	0.137	-9.000	-9.000	-999.	133.	22.7	0.24	2.79	1.00	1.26	287.	7.9	287.5	2.0
12	01	01	1	20	-6.2	0.106	-9.000	-9.000	-999.	83.	17.2	0.24	2.79	1.00	0.99	303.	7.9	287.0	2.0
12	01	01	1	21	-7.6	0.117	-9.000	-9.000	-999.	96.	19.1	0.24	2.79	1.00	1.09	326.	7.9	286.4	2.0

```
 12 01 01   1 22   -6.8  0.110 -9.000 -9.000 -999.   88.     18.0  0.24   2.79   1.00    1.03  297.    7.9  285.9    2.0
 12 01 01   1 23  -19.9  0.200 -9.000 -9.000 -999.  214.     43.9  0.24   2.79   1.00    1.79  290.    7.9  285.9    2.0
 12 01 01   1 24  -19.6  0.196 -9.000 -9.000 -999.  209.     42.3  0.24   2.79   1.00    1.76  282.    7.9  285.9    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 -999.  -99.00   283.8   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
*** AERMOD - VERSION  19191 ***   *** 12850 Crenshaw Boulevard                                          ***        04/17/20
 *** AERMET - VERSION  16216 ***   *** Health Risk Assessment - Short Duration Exposures                 ***        17:40:20
                                                                                                                 PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST  1-HR RESULTS ***


                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                             DATE
NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-
ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       2.33431  ON 12092907: AT (  377407.50,  3753628.00,    16.00,    16.00,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  19191 ***   *** 12850 Crenshaw Boulevard                                          ***        04/17/20
 *** AERMET - VERSION  16216 ***   *** Health Risk Assessment - Short Duration Exposures                 ***        17:40:20
                                                                                                                 PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  URBAN  ADJ_U*

                                          *** THE SUMMARY OF HIGHEST  8-HR RESULTS ***


                                  ** CONC OF OTHER    IN MICROGRAMS/M**3                          **

                                             DATE
NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)             RECEPTOR  (XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-
ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

ALL      HIGH   1ST HIGH VALUE IS       2.16362c ON 13123108: AT (  377407.50,  3753628.00,    16.00,    16.00,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION  19191 ***   *** 12850 Crenshaw Boulevard                                          ***        04/17/20
 *** AERMET - VERSION  16216 ***   *** Health Risk Assessment - Short Duration Exposures                 ***        17:40:20
                                                                                                                 PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  FLGPOL  NODRYDPLT  NOWETDPLT  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        1474 Informational Message(s)
```

```
A Total of        43848 Hours Were Processed

A Total of         1223 Calm Hours Identified

A Total of          251 Missing Hours Identified (  0.57 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     108       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used          0.50
ME W187     108       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
```

Kimley»Horn

TECHNICAL MEMORANDUM

To: Ray Barragan and Lisa Kranitz, City of Gardena

From: Ace Malisos and Rita Garcia

Date: January 14, 2021

Subject: **Gardena Transit Oriented Development Specific Plan, 12850 and 12900 Crenshaw Boulevard, Health Risk Assessment Final Peer Review**

Kimley-Horn has conducted a follow-up third-party peer review of the Project's Health Risk Assessment (Air Quality Dynamics, August 2020) on behalf of the City of Gardena to verify that Kimley-Horn's July 27, 2020 third-party peer review Technical Memo (TM) recommendations have been incorporated. The revised August 2020 report addressed the third-party peer review comments and thus is in compliance with the TM recommendations. The analysis, as revised, meets the applicable provisions of CEQA and the State CEQA Guidelines and is adequate for inclusion in the Project EIR.

Please do not hesitate to contact Ace Malisos at 714.705.1380 or ace.malisos@kimley-horn.com with any questions.

RAMBOLL

ENVIRONMENT
& HEALTH

MEMORANDUM

To: Dave Rand, Armbruster Goldsmith & Delvac LLP

From: Eric C. Lu, Ramboll

Subject: **Supplemental Guidance on Air Quality and Greenhouse Gas Analyses for the Gardena Transit-Oriented Development Specific Plan**

Date: January 14, 2021

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BACKGROUND

This memorandum addresses the difference in the assumed square footage of the existing warehouse in the air quality and greenhouse gas analyses for the Gardena Transit-Oriented Development Specific Plan ("Project") to the actual square footage. Per the Project's Notice of Preparation, the existing auto parts warehouse is approximately 24,990 square feet.[1] The air quality (AQ) and greenhouse gas (GHG) analyses assumed that the existing warehouse was 24,000 square feet in the AQ Technical Report dated August 2020 (AQ Technical Report) and the GHG Technical Report dated November 2020 (GHG Technical Report). While this change will result in a change of the criteria air pollutant (CAP) and GHG emissions from the construction and operational emissions, the change is minimal as further described below and will not change the conclusions of the AQ Technical Report nor the GHG Technical Report. This memo describes the change related to this difference in square footage of the existing warehouse.

Air Quality – Criteria Air Pollutants

Ramboll's AQ Technical Report concludes that the air quality impacts of maximum daily CAP emissions from Project construction would be less than significant and this would not change. The maximum daily CAP emissions from Project construction (see Table ES-1 in report) do not occur during the demolition phase. As such, the change in demolition square footage will not change the maximum daily CAP emissions reported during construction. Notably, the change in square footage may result in additional fugitive emissions and approximately five additional haul truck trips in total over the 40 days of demolition, which would only result in a small emission change during the demolition phase.

[1] Din/Cal 4, Inc. Notice of Preparation of an Environmental Impact Report. Available at: https://www.cityofgardena.org/wp-content/uploads/2020/08/GTOD-SP-EIR-NOP_081820.pdf. Accessed: January 2021.

Ramboll's AQ Technical Report also concludes that the air quality impacts of maximum daily CAP emissions from Project operation would be less than significant, and that would not change. The maximum daily CAP emissions from Project operation (see Table ES-2 in report) are compared to the significance thresholds based on the increase above the Existing Conditions emissions. The small increase in the existing warehouse square footage would increase the Existing Conditions emissions, and the result of this square footage difference would be that the net Project emissions would decrease slightly. The operational criteria air pollutant emissions reported in the AQ Technical Report are conservative.

Greenhouse Gases

Ramboll's GHG Technical Report concludes that the Project is less than significant for greenhouse gases, and that would not change. The GHG Report shows that the Project GHG emissions inventory are less than 100 metric tons of carbon dioxide equivalents ($MTCO_2e$), and this total includes both the amortized construction emissions as well as the operational emissions. The construction emissions would have a minimal increase due to five additional haul trips during demolition, and the Project operational emissions are conservative as currently reported.