MEMORANDUM

To: Reema Mahamood, Planner, City of San José

From: Ace Malisos, Air Quality and Noise Manager, Kimley-Horn
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Subject: 551 Keyes Street Project – Air Quality and Greenhouse Gas Emissions Analysis

1.0 PURPOSE

The purpose of this memorandum is to identify the air quality and greenhouse gas (GHG) emissions associated with construction and operations of the proposed 551 Keyes Street Project (project), located in the City of San José, California. This analysis has been undertaken to analyze whether the proposed project would result in any significant air quality or GHG emissions impacts associated with construction and operation of the project.

2.0 PROPOSED PROJECT DESCRIPTION

The proposed project is in the City of San José (City) in Santa Clara County, California. The project site is located at 551 Keyes Street. The site is located between South 12th Street on the west and open space on the east. North of the site is an existing three-story multi-family residential building while Keyes Street makes up the southern boundary. The proposed project site includes one parcel (Assessor Parcel Number 472-12-086) on approximately 0.90 gross acres.

The project site is currently an undeveloped vacant lot. The overall project site is sloped with an approximately eight-foot elevation difference. The project site is surrounded by multi-family residential buildings to the northwest, commercial and residential uses to the southwest, greenspace and trails to the northeast, Happy Hollow Park and Zoo to the east, and multi-family residential uses to the southeast (across Keyes Street).

The proposed project would develop a 5-story residential building with 84 units of affordable housing over a one-story basement parking garage. The proposed project includes 90,912 square feet (sf) of total floor area consisting of resident housing, lobby, elevator, stairs, hallways, and a garage with a trash room and bicycle parking. Private and public open space is provided by the project, including 32 units with a balcony and a public greenspace in the northern portion of the project site. The proposed building would be 62 feet high. Vehicular access to the proposed project would be provided via a driveway on South 12th Street, along the western project boundary. The proposed project driveway

would provide access to the first level parking garage. The parking garage would contain 64 spaces for residents. The project would also include 84 bicycle parking spaces.

Construction of the proposed project is anticipated to take approximately 19 months. The site is currently vacant, and no demolition would be required.

3.0 IMPACT ANALYSIS

3.1 Air Quality Impacts

The project site is located in the San Francisco Bay Area Air Basin (Basin) which includes all of Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, and Santa Clara counties, the southern portion of Sonoma County, and the southwestern portion of Solano County. The Bay Area Air Quality Management District (BAAQMD) and the California Air Resources Board (CARB) monitor air quality within the Basin. Air quality plans describe air pollution control strategies and measures to be implemented by a city, county, region, and/or air district. The primary purpose of an air quality plan is to bring an area that does not attain federal and State air quality standards into compliance with the requirements of the federal Clean Air Act and California Clean Air Act. In addition, air quality plans are developed to ensure that an area maintains a healthful level of air quality based on the National Ambient Air Quality Standards (NAAQS) and the California Ambient Air Quality Standards (CAAQS). The Air Quality Management Plan (AQMP) is prepared by BAAQMD. The AQMP provides policies and control measures that reduce emissions to attain both State and federal ambient air quality standards.

The most recently adopted plan, the Clean Air Plan, in the Basin outlines how the San Francisco area will attain air quality standards, reduce population exposure and protect public health, and reduce GHG emissions. The proposed project consists of 84 residential units consistent with the General Plan land use designation and would not increase the regional population growth or cause changes in vehicle traffic that would obstruct implementation of the Clean Air Plan in the San Francisco Bay Area Basin.

As described below, construction and operational air quality emissions generated by the proposed project would not exceed the BAAQMD's emissions thresholds. Since the proposed project will not exceed these thresholds, the proposed project would not be considered by the BAAQMD to be a substantial emitter of criteria air pollutants and would not contribute to any non-attainment areas in the Basin.

Construction Emissions

Project construction activities would generate short-term emissions of criteria air pollutants. The criteria pollutants of primary concern within the project area include ozone-precursor pollutants (i.e., reactive organic gases [ROG] and nitrogen oxides [NO_x]) and particulate matter 10 microns in size or less (PM_{10}) and particulate matter 2.5 microns in size or less ($PM_{2.5}$). Construction-generated emissions are short term and temporary, lasting only while construction activities occur, but would

be considered a significant air quality impact if the volume of pollutants generated exceeds the BAAQMD's thresholds of significance.

Construction results in the temporary generation of emissions during site preparation, site grading, road paving, motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment, especially on unpaved surfaces. Emissions of airborne particulate matter are largely dependent on the amount of ground disturbance associated with site preparation activities, as well as weather conditions and the appropriate application of water.

The duration of construction activities associated with the project are estimated to last approximately 18 months. The project's construction-related emissions were calculated using the BAAQMD-approved CalEEMod computer program, which is designed to model emissions for land use development projects, based on typical construction requirements. project site preparation, and grading are anticipated to begin in February 2022. The project would export approximately 20,300 cubic yards (cy) of soil during the excavation of the basement parking garage. Paving was modeled to be completed mid-2022. Building construction was estimated to begin mid-2022 and last approximately 14 months to summer 2023. Architectural coating would begin spring 2023 and end by summer 2023. The exact construction timeline is unknown, however, to be conservative, the earliest feasible dates were utilized in the modeling. This approach is conservative given that emissions factors decrease in future years due to regulatory and technological improvements and fleet turnover. See Appendix A: Air Quality and GHG Data for additional information regarding the construction assumptions used in this analysis. **Table 1: Maximum Daily Construction Emissions** displays the maximum daily emissions in pounds per day that are expected to be generated from the construction of the proposed project in comparison to the daily thresholds established by the BAAQMD.

As shown in **Table 1**, construction of the proposed project would not cause exceedances for ROG, NO_x, $PM_{2.5}$, and PM_{10}. The calculated emission results for ROG, NO_x, $PM_{2.5}$, and PM_{10} from CalEEMod demonstrate that the construction of this project would not exceed maximum daily thresholds created by the BAAQMD. In addition, the project is proposing to construct 84 dwelling units, which would require the application of architectural coating on the outside and inside of each building and striping for the stalls. The highest concentration of ROG emissions would be generated from architectural coating beginning in spring 2023 and lasting approximately five months. This phase includes the interior and exterior painting as well as striping of all paved parking areas and driveways. Paints would be required to comply with BAAQMD *Regulation 8, Rule 3: Architectural Coating*. *Regulation 8, Rule 3* provides specifications on painting practices and regulates the ROG content of paint. Accordingly, construction emissions from project implementation would not worsen ambient air quality, create additional violations of federal and state standards, or delay the Basin's goal for meeting attainment standards.

Table 1: Maximum Daily Construction Emissions

Construction Year	Pollutant (maximum pounds per day)[1]					
	Reactive Organic Gases (ROG)	Nitrogen Oxide (NO_x)	Exhaust		Fugitive Dust	
			Coarse Particulate Matter (PM_{10})	Fine Particulate Matter ($PM_{2.5}$)	Coarse Particulate Matter (PM_{10})	Fine Particulate Matter ($PM_{2.5}$)
2022	1.63	22.08	0.67	0.62	2.00	0.75
2023	10.35	8.60	0.40	0.37	0.70	0.19
BAAQMD Significance Threshold [2, 3]	*54*	*54*	*82*	*54*	*BMPs*	*BMPs*
Exceed BAAQMD Threshold?	**No**	**No**	**No**	**No**	**N/A**	**N/A**

1. Emissions were calculated using CalEEMod. Mitigated emissions include compliance with the BAAQMD's Basic Construction Mitigation Measures Recommended for All Projects. These measures include the following: water exposed surfaces two times daily; cover haul trucks; clean track outs with wet powered vacuum street sweepers; limit speeds on unpaved roads to 15 miles per hour; complete paving as soon as possible after grading; limit idle times to 5 minutes; properly maintain mobile and other construction equipment; and post a publicly visible sign with contact information to register dust complaints and take corrective action within 48 hours.
2. Bay Area Air Quality Management District, California Environmental Quality Act Air Quality Guidelines, updated May 2017.
3. BMPs = Best Management Practices. The BAAQMD recommends the implementation of all Basic Construction Mitigation Measures, whether or not construction-related emissions exceed applicable significance thresholds. Implementation of Basic Construction Mitigation measures are considered to mitigate fugitive dust emissions to be less than significant.

Source: Refer to the CalEEMod outputs provided in Appendix A.

Standard Permit Condition

These measures would be placed on the project plan documents prior to the issuance of any grading permits for the proposed project.

- Water active construction areas at least twice daily or as often as needed to control dust emissions.
- Cover trucks hauling soil, sand, and other loose materials and/or ensure that all trucks hauling such materials maintain at least two feet of freeboard.
- Remove visible mud or dirt track-out onto adjacent public roads using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- Enclose, cover, water twice daily or apply non-toxic soil binders to exposed stockpiles (dirt, sand, etc.).
- Pave new or improved roadways, driveways, and sidewalks as soon as possible.
- Lay building pads as soon as possible after grading unless seeding or soil binders are used.
- Replant vegetation in disturbed areas as quickly as possible.
- Install sandbags or other erosion control measures to prevent silt runoff to public roadways.
- Minimizing idling times either by shutting off equipment when not in use, or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control

measure Title 13, Section 2485 of California Code of Regulations). Provide clear signage for construction workers at all access points.

- Maintain and properly tune construction equipment in accordance with manufacturer's specifications. Check all equipment by a certified mechanic and record a determination of running in proper condition prior to operation.
- Post a publicly visible sign with the telephone number and person to contact at the lead agency regarding dust complaints.

Operational Emissions

Operational emissions for residential developments are typically generated from mobile sources (burning of fossil fuels in cars); energy sources (cooling, heating, and cooking); and area sources (landscape equipment and household products). **Table 2: Operational Emissions** shows that the project's maximum emissions would not exceed BAAQMD operational thresholds.

Project-generated vehicle emissions have been estimated using CalEEMod. Trip generation rates associated with the project were based on the project Trip Generation Analysis prepared by Kimley-Horn (2020). Based on the project's Transportation Impact Analysis, the project would result in a gross total of 379 daily vehicle trips. **Table 2** shows the net project emissions generated by vehicle traffic associated with the project would not exceed established BAAQMD regional thresholds.

Table 2: Operational Emissions

Emissions Source	Pollutant (maximum pounds per day)[1]					
			Exhaust		Fugitive Dust	
	Reactive Organic Gases (ROG)	Nitrogen Oxides (NO_X)	Coarse Particulate Matter (PM_{10})	Fine Particulate Matter ($PM_{2.5}$)	Coarse Particulate Matter (PM_{10})	Fine Particulate Matter ($PM_{2.5}$)
Area	1.85	0.08	0.04	0.04	--	--
Energy	0.02	0.18	0.01	0.05	--	--
Mobile	0.82	1.16	0.01	0.02	2.08	0.56
Total Project Emissions	**2.69**	**1.42**	**0.07**	**0.07**	**2.08**	**0.56**
BAAQMD Significance Threshold[2]	*54*	*54*	*82*	*54*	*N/A*	*N/A*
BAAQMD Threshold Exceeded?	**No**	**No**	**No**	**No**	**N/A**	**N/A**

1. Emissions were calculated using CalEEMod.
2. Bay Area Air Quality Management District, *California Environmental Quality Act Air Quality Guidelines*, 2017.

Source: Refer to the CalEEMod outputs provided in Appendix A.

BAAQMD has set its significance threshold based on the trigger levels for the federal NSR Program and BAAQMD's Regulation 2, Rule 2 for new or modified sources. The NSR Program was created to ensure projects are consistent with attainment of health-based federal ambient air quality standards.

The federal ambient air quality standards establish the levels of air quality necessary, with an adequate margin of safety, to protect the public health. Accordingly, emissions generated by project operations would not violate any air quality standards or contribute substantially to an existing or projected air quality violation and no criteria pollutant health impacts would occur.

Federal Conformity

An area's compliance with national ambient air quality standards under the Clean Air Act is categorized as nonattainment, attainment (better than national standards), unclassifiable, or attainment/cannot be classified. The San Francisco Bay Area is designated as nonattainment for the federal 8-hour ozone standard and the 24-hour fine particulate matter ($PM_{2.5}$) standard. The San Francisco Bay Area is designated as attainment or unclassified for the other national ambient air quality standards.

With respect to the state ambient air quality standards, California classifies areas as attainment, nonattainment, nonattainment-transitional, or unclassified. The San Francisco Bay Area is designated as nonattainment for the state ozone, inhalable particulate matter (PM_{10}) and $PM_{2.5}$ standards and as attainment or unclassified for the other state ambient air quality standards.

In keeping with the General Conformity Rule process, this assessment applies the *appropriate de minimis* thresholds of the Rule as they apply to the San Francisco Bay Area Air Basin for ozone precursors (ROG and NO_X), $PM_{2.5}$, and CO. The *de minimis* thresholds for these pollutants in the San Francisco Bay Area Air Basin are 100 tons per year for each pollutant; refer to **Table 3: Clean Air Act Conformity**.

Table 3: Clean Air Act Conformity

Emission Source	Annual Emissions (tons per year)		
	ROG	NO_X	$PM_{2.5}$
Area Source Emissions[2]	0.320	0.007	0.0035
Energy Emissions	0.004	0.033	0.0027
Mobile Emissions	0.139	0.224	0.0025
Total Project Emissions	**0.462**	**0.265**	**0.0087**
Federal De Minimis Level[3]	*100*	*100*	*100*
Is Threshold Exceeded?	**No**	**No**	**No**

Notes:
1. Emissions were calculated using CalEEMod. Refer to Appendix A for the model outputs and assumptions used in this analysis.
2. BAAQMD Regulation 6, Rule 3 (Wood Burning Devices) requires that only clean-burning, EPA-certified stoves and inserts are sold and used in local construction projects. Therefore, mitigated values were used for Area Source Emissions.
3. De minimis levels are established within Title 40 of the Code of Federal Regulations, Section 93.153 (40 CFR 93.153). The Project is located within the Santa Clara County portion of the San Francisco Bay Area Air Basin, which is Federally designated as marginal nonattainment for ozone and moderate nonattainment for $PM_{2.5}$. The San Francisco Bay Area Air Basin is Federally designated as attainment/unclassified for PM_{10}. Therefore, de minimis levels do not apply to PM_{10}.

Cumulative Emissions

The SFBAAB is designated nonattainment for O_3, PM_{10}, and $PM_{2.5}$ for State standards and nonattainment for O_3 and $PM_{2.5}$ for Federal standards. As discussed above, the project's construction-related and operational emissions would not have the potential to exceed the BAAQMD significance thresholds for criteria pollutants.

Cumulative Construction Impacts. Since the BAAQMD's thresholds indicate whether an individual project's emissions have the potential to affect cumulative regional air quality, it can be expected that the project-related construction emissions would not be cumulatively considerable. The BAAQMD recommends Basic Construction Mitigation Measures for all projects whether or not construction-related emissions exceed the thresholds of significance. Compliance with BAAQMD construction-related mitigation requirements are considered to reduce cumulative impacts at a Basin-wide level. As a result, construction emissions associated with the project would not result in a cumulatively considerable contribution to significant cumulative air quality impacts.

Cumulative Operational Impacts. The BAAQMD has not established separate significance thresholds for cumulative operational emissions. The nature of air emissions is largely a cumulative impact. As a result, no single project is sufficient in size, by itself, to result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. The BAAQMD developed the operational thresholds of significance based on the level above which a project's individual emissions would result in a cumulatively considerable contribution to the Basin's existing air quality conditions. Therefore, a project that exceeds the BAAQMD operational thresholds would also be a cumulatively considerable contribution to a significant cumulative impact.

As shown in **Table 1** and **Table 2**, the project's construction and operational emissions would not exceed BAAQMD thresholds. As a result, air quality emissions associated with the project would not result in a cumulatively considerable contribution to significant cumulative air quality impacts.

Pollutant Concentrations

Construction Toxic Air Contaminants

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

Project construction would generate diesel particulate matter (DPM) emissions from the use of off-road diesel equipment required for grading and excavation, paving, and other construction activities.

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

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

Construction is subject to and would comply with California regulations (e.g., California Code of Regulations, Title 13, Division 3, Article 1, Chapter 10, Sections 2485 and 2449), which reduce DPM and criteria pollutant emissions from in-use off-road diesel-fueled vehicles and limit the idling of heavy-duty construction equipment to no more than five minutes. These regulations would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Given the temporary and intermittent nature of construction activities likely to occur within specific locations in the project site (i.e., construction is not likely to occur in any one location for an extended time), the dose of DPM of any one receptor is exposed to would be limited.

The U.S. Environmental Protection Agency (U.S. EPA) recommended screening model AERSCREEN has been used to evaluate potential health effects to sensitive receptors from construction emissions. AERSCREEN is the recommended screening model based on the AERMOD dispersion model. The model produces estimates of worst-case concentrations without the need for hourly meteorological data. According to the U.S. EPA Support Center for Regulatory Atmospheric Modeling (SCRAM) website, AERSCREEN is intended to produce concentration estimates that are equal to or greater than the estimates produced by AERMOD with a fully developed set of meteorological and terrain data.[1] Maximum (worst case) $PM_{2.5}$ exhaust construction emissions over the entire construction period were used in AERSCREEN to approximate construction DPM emissions. Risk levels were calculated with the CARB Hotspots Analysis and Reporting Program (HARP) Risk Assessment Standalone Tool (RAST) and based on the California Office of Environmental Health Hazard Assessment (OEHHA) guidance document, Air Toxics Hot Spots Program Risk Assessment Guidelines (February 2015) and used 95th percentile daily breathing rates and age sensitivity factors recommended by the BAAQMD.

$PM_{2.5}$ construction emissions rates in grams per second were calculated from the maximum annual mitigated on-site exhaust emissions reported in CalEEMod (0.0395 tons unmitigated) during construction. Annual emissions were converted to grams per second and these emissions rates were input into AERSCREEN. Although project construction would occur for over a period of 19 months, the

[1] U.S. Environmental Protection Agency, *Air Quality Dispersion Modeling- Screening Models*. https://www.epa.gov/scram/air-quality-dispersion-modeling-screening-models

health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 3-year exposure scenario as recommended by the BAAQMD, and thus is conservative.[2]

Maximum unmitigated concentration of $PM_{2.5}$ during construction would be 0.0115 µg/m³, which would not exceed the BAAQMD threshold of 0.3 µg/m³. The highest calculated carcinogenic risk from project construction would be 4.38 per million, which would not exceed the BAAQMD threshold of 10 in one million. Non-cancer hazards for DPM would be below BAAQMD threshold, with a chronic hazard index computed at 0.0023 and an acute hazard index of 0.0459. Acute and chronic hazards would be below the BAAQMD significance threshold of 1.0.

Operational Toxic Air Contaminants

The project includes 84 residential dwelling units. Therefore, the project is not anticipated to generate truck traffic and the associated DPM exhaust. Operational TAC impacts would be less than significant.

In addition to mobile sources, stationary sources within a 1,000-foot-radius of the Project site were identified using BAAQMD's Stationary Source Screening Analysis Tools and consultation with the BAAQMD. As indicated in **Table 4: Cumulative Operational Health Risk**, TACs generated from the stationary and roadway sources within a 1,000-foot-radius would not exceed BAAQMD thresholds.

Table 4: Cumulative Operational Health Risk

Emissions Sources	$PM_{2.5}$ (µg/m³)	Cancer Risk (per million	Chronic Hazard	Acute Hazard
City of San Jose SBWRP- Generators	0.0058	4.2166	0.0	0.0
Happy Hollow Park- Dragon Ride Gas Tank	0.0000	0.0005	0.0	0.0
San Jose Water Company – Generators	0.0168	13.0360	0.080	0.0
Cumulative Health Risk Values	**0.0226**	**17.2531**	**0.080**	**0.0**
BAAQMD Cumulative Threshold	*0.8*	*100*	*10*	*10*
Threshold Exceeded?	**No**	**No**	**No**	**No**

As described above, cumulative impacts related to residential cancer risk, $PM_{2.5}$, chronic hazard, and acute hazard would be less than cumulatively considerable and within acceptable limits.

Mobile Sources

The project would not place sensitive receptors within 1,000-feet of a major roadway (mobile TAC source). Additionally, the project's effects to existing vehicle distribution and travel speeds would be nominal. According to the Transportation Impact Analysis, the project would generate 379 net new

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

daily trips. Any changes to vehicle distribution and travel speeds can affect vehicle emissions rates, although these changes would be minimal and would not substantially change criteria pollutant emissions, which are primarily driven by vehicle miles travelled (VMT). Traffic is also predominantly light-duty and gasoline powered and therefore any shifts in traffic would not constitute a change in substantial cancer risk. The project does not involve the increase of transit trips or routes and would not generate increased emissions from expanded service (e.g., increased bus idling service).

Additionally, the project would comply with City and State policies and regulations, including Title 24 requirements for MERV 13 air filtration. A MERV 13 filter has a particle removal efficiency in the range of 80-90 percent. Therefore, impacts related to cancer risk, hazards, and $PM_{2.5}$ concentrations from mobile sources would be less than significant at the project site.

Carbon Monoxide Hotspots

The primary mobile-source criteria pollutant of local concern is carbon monoxide. Concentrations of CO are a direct function of the number of vehicles, length of delay, and traffic flow conditions. Transport of this criteria pollutant is extremely limited; CO disperses rapidly with distance from the source under normal meteorological conditions. Under certain meteorological conditions, however, CO concentrations close to congested intersections that experience high levels of traffic and elevated background concentrations may reach unhealthy levels, affecting nearby sensitive receptors. Areas of high CO concentrations, or "hot spots," are typically associated with intersections that are projected to operate at unacceptable levels of service during the peak commute hours. CO concentration modeling is therefore typically conducted for intersections that are projected to operate at unacceptable levels of service during peak commute hours.

The SFBAAB is designated as in attainment for carbon monoxide (CO). Emissions and ambient concentrations of CO have decreased dramatically in the SFBAAB with the introduction of the catalytic converter in 1975. No exceedances of the CAAQS or NAAQS for CO have been recorded at nearby monitoring stations since 1991. As a result, the BAAQMD screening criteria notes that CO impacts may be determined to be less than significant if a project would not increase traffic volumes at local intersections to more than 44,000 vehicles per hour, or 24,000 vehicles per hour for locations in heavily urban areas, where "urban canyons" formed by buildings tend to reduce air circulation. Traffic would increase along surrounding roadways during long-term operational activities.

According to the Transportation Impact Analysis prepared for the project (2020), the project would generate 26 new a.m. peak hour trips and 33 new p.m. peak hour trips. The project's effects to existing vehicle distribution and travel speeds would be nominal. Further, project would not involve intersections with more than 24,000 or 44,000 vehicles per hour. As a result, the project would not have the potential to create a CO hotspot.

Odors

Construction activities associated with the project may generate detectable odors from heavy duty equipment (i.e., diesel exhaust), as well as from architectural coatings and asphalt off-gassing. Odors

generated from the referenced sources are common in the man-made environment and are not known to be substantially offensive to adjacent receptors. Any construction-related odors would be short-term in nature and cease upon project completion. As a result, impacts to existing adjacent land uses from construction-related odors would be short-term in duration and therefore would be less than significant.

BAAQMD has established odor screening thresholds for land uses that have the potential to generate substantial odor complaints, including wastewater treatment plants, landfills or transfer stations, composting facilities, confined animal facilities, food manufacturing, and chemical plants. BAAQMD's thresholds for odors are qualitative based on BAAQMD's Regulation 7, Odorous Substances. This rule places general limitations on odorous substances and specific emission limitations on certain odorous compounds.

The project includes 84 dwelling units which are not anticipated to generate odors. None of the above listed uses are located near the project site.

3.2 Greenhouse Gas Emissions

Background

Global climate change refers to changes in average climatic conditions on Earth as a whole, including temperature, wind patterns and precipitation. Global temperatures are moderated by naturally occurring atmospheric gases, including water vapor, carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O), as well as hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These "greenhouse" gases (GHGs) allow solar radiation (sunlight) into the Earth's atmosphere but prevent radiative heat from escaping, thus warming the Earth's atmosphere. GHGs are emitted by both natural processes and human activities. Concentrations of GHG have increased in the atmosphere since the industrial revolution. Human activities that generate GHG emissions include combustion of fossil fuels (CO_2 and N_2O); natural gas generated from landfills, fermentation of manure and cattle farming (CH_4); and industrial processes such as nylon and nitric acid production (N_2O).

GHGs have varying global warming potential (GWP). The GWP is the potential of a gas or aerosol to trap heat in the atmosphere; it is the "cumulative radiative forcing effect of a gas over a specified time horizon resulting from the emission of a unit mass of gas relative to a reference gas." The reference gas for GWP is CO_2; therefore, CO_2 has a GWP factor of 1. The other main GHGs that have been attributed to human activity include CH_4, which has a GWP factor of 28, and N_2O, which has a GWP factor of 265. When accounting for GHGs, all types of GHG emissions are expressed in terms of CO_2 equivalents (CO_2e) and are typically quantified in metric tons (MT) or million metric tons (MMT).

Assembly Bill (AB) 32, the California Global Warming Solutions Act of 2006, established a State goal of reducing GHG emissions to 1990 levels by the year 2020, which would require a reduction of approximately 173 MMT net CO_2e below "business as usual" emission levels. Senate Bill (SB) 97, a companion bill, directed the California Natural Resources Agency (Resources Agency) to certify and adopt guidelines for the mitigation of GHGs or the effects of GHG emissions. SB 97 was the State Legislature's directive to the Resources Agency to specifically establish that GHG emissions and their impacts are appropriate subjects for CEQA analysis. Executive Order (EO) S-3-05 was enacted in June 2005 and calls for an 80 percent reduction below 1990 levels by 2050. SB 32 was signed into law in 2016 and establishes an interim GHG emission reduction goal for the State to reduce GHG emissions to 40 percent below 1990 levels by the year 2030.

Short-Term Construction Greenhouse Gas Emissions

Construction of the project would result in direct emissions of CO_2, N_2O, and CH_4 from the operation of construction equipment and the transport of materials and construction workers to and from the project site. BAAQMD does not have a threshold for construction GHG emissions, which are one-time, short-term emissions and therefore would not significantly contribute to long-term cumulative GHG emissions impacts of the proposed project. However, the BAAQMD advises that construction GHG should be disclosed and a determination on the significance of construction GHG emissions in relation to meeting AB 32 GHG reduction goals should be made. Total GHG emissions generated during all phases of construction were combined and are presented in **Table 5: Construction Greenhouse Gas Emissions.** The CalEEMod outputs are contained within the Appendix A, Air Quality and GHG Data.

Table 5: Construction Greenhouse Gas Emissions

Construction Year and Season	CO_2e Emissions, metric tons/year
Total (2022)	265
Total (2023)	144
Construction Total (2022 & 2023)	409
Emissions amortized over 30 years	14
Source: CalEEMod version 2016.3.2. Refer to Appendix A for model outputs.	

As shown in **Table 5,** project construction-related activities would generate approximately 409 $MTCO_2e$ of GHG emissions over the course of construction. One-time, short-term construction GHG emissions are typically summed and amortized over the project's lifetime (assumed to be 30 years). It is reasonable to look at a 30-year time frame for buildings since this is a typical interval before a new building requires the first major renovation. The amortized project emissions would be approximately 14 $MTCO_2e$ per year. Once construction is complete, the generation of construction-related GHG emissions would cease.

Long-Term Operational Greenhouse Gas Emissions

Operational or long-term emissions would occur over the project's life. GHG emissions would result from direct emissions such as project generated vehicular traffic, on-site combustion of natural gas, and operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power over the life of the project, the energy required to convey water to, and wastewater from the project site, the emissions associated with solid waste generated from the project site, and any fugitive refrigerants from air conditioning or refrigerators. **Table 6: Operational GHG Emissions** summarizes the total GHG emissions associated with the project.

Table 6: Operational GHG Emissions

Emissions Source	**$MTCO_2e$[1]**
Area	1.04
Energy	155
Mobile	331
Waste	10
Water	16
Total Annual Project GHG Emissions[2]	**513**
Service Population[3]	**346**
Project $MTCO_2e$/SP/year[4]	1.48 $MTCO_2e$/SP/year
Threshold[5]	**2.94 $MTCO_2e$/SP/year**
Exceeds Threshold?	**No**

1. Emissions were calculated using CalEEMod version 2016.3.2.
2. Emissions may not total due to rounding.
3. Per HUD's and the City's maximum number of occupants per unit, the proposed housing development would be occupied by approximately 346 residents: (2 occupants per studio unit*35 studio units) + (3 occupants per one-bedroom unit*5 one-bedroom units) + (5 occupants per two-bedroom unit*20 two-bedroom units) + (7 occupants per three-bedroom unit*23 three-bedroom units) = 346 occupants
4. Metric tons of carbon dioxide equivalent per service person per year.
5. The City's GHG threshold per the *2030 Greenhouse Gas Reduction Strategy*, August 2020.

Source: CalEEMod version 2016.3.2. Refer to Appendix A for model outputs.

Below is a description of the primary sources of operational emissions:

- **Area Sources**. Area source emissions occur from hearths (i.e. natural gas fireplaces), architectural coatings, landscaping equipment, and consumer products. Landscaping is anticipated to occur throughout the project site. Additionally, the primary emissions from architectural coatings are volatile organic compounds, which are relatively insignificant as direct GHG emissions. The project would result in 1 $MTCO_2eq$/yr (refer to **Table 6**).

- **Energy Consumption**. Energy emissions occur from consumption of electricity and natural gas. The project would result in approximately 155 $MTCO_2e$/yr from energy consumption (refer to **Table 6**).

- **Mobile Sources**. Mobiles sources from the project were calculated with CalEEMod based on the trip generation from the project Traffic Study. As shown in **Table 6**, the mobile source emissions from the project would be approximately 331 $MTCO_2eq/yr$.

- **Solid Waste**. Solid waste releases GHG emissions in the form of methane when these materials decompose. The project would result in approximately 10 $MTCO_2e/yr$ from solid waste (refer to **Table 6**).

- **Water and Wastewater**. GHG emissions from water demand would occur from electricity consumption associated with water conveyance and treatment. Existing water efficiency regulations require the project to limit the use of turf. The project would result in approximately 16 $MTCO_2e/yr$ from water and wastewater conveyance and treatment (refer to **Table 6**).

Table 6 shows that operational emissions from the proposed project would generate approximately 513 $MTCO_2e$ per year, resulting in 1.48 $MTCO_2e/SP/year$. The City threshold for operational GHG emissions is 2.94 $MTCO_2e/SP/year$. Therefore, the project is below the threshold.

It should be noted that the operational emissions incorporate adjustments for project energy consumption based on the 2019 Title 24 Part 6 (Building Energy Efficiency Standards). The standards also require updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa), residential and nonresidential ventilation requirements, and nonresidential lighting requirements that would cut residential energy use by more than 50 percent (with solar) and nonresidential energy use by 30 percent. The standards also encourage demand responsive technologies including battery storage and heat pump water heaters and improve the building's thermal envelope through high performance attics, walls and windows to improve comfort and energy savings (California Energy Commission, March 2018). The project would also comply with the appliance energy efficiency standards in Title 20 of the California Code of Regulations. The Title 20 standards include minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy- and water-efficient appliances. The project would be constructed according to the standards for high-efficiency water fixtures for indoor plumbing and water efficient irrigation systems required in 2019 Title 24, Part 11 (CALGreen).

At the State and global level, improvements in technology, policy, and social behavior can also influence and reduce operational emissions generated by a project. The state is currently on a pathway to achieving the Renewable Portfolio Standards goal of 33 percent renewables by 2020 and 60 percent renewables by 2030 per SB 100. Despite these goals, the majority of the project's emissions would still be from mobile and energy sources. Future mobile source emissions are greatly dependent on changes in vehicle technology, fuels, and social behavior, which can be influenced by policies to varying degrees.

The majority of project emissions (approximately 96 percent) would occur from mobile and energy sources. As noted above, energy and mobile sources are targeted by statewide measures such as low carbon fuels, cleaner vehicles, strategies to promote sustainable communities and improved

transportation choices that result in reducing VMT, continued implementation of the Renewable Portfolio Standard (the target is now set at 60 percent renewables by 2030), and extension of the Cap and Trade program (requires reductions from industrial sources, energy generation, and fossil fuels). The Cap and Trade program covers approximately 85 percent of California's GHG emissions as of January 2015. The statewide cap for GHG emissions from the capped sectors (i.e., electricity generation, industrial sources, petroleum refining, and cement production) commenced in 2013 and will decline approximately three percent each year, achieving GHG emission reductions throughout the program's duration. The passage of AB 398 in July 2017 extended the duration of the Cap and Trade program from 2020 to 2030. With continued implementation of various statewide measures, the project's operational energy and mobile source emissions would continue to decline in the future.

Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures, as they have not yet been developed; nevertheless, it can be anticipated that operation of the proposed project would benefit from the implementation of current and potential future regulations (e.g., improvements in vehicle emissions, SB 100/renewable electricity portfolio improvements, etc.) enacted to meet an 80 percent reduction below 1990 levels by 2050.

As shown in **Table 5** and **Table 6**, project-related GHG emissions would not exceed BAAQMD and City of San José thresholds. Accordingly, the project would not in a cumulatively considerable contribution to the significant cumulative impact of climate change.

Appendix A

Air Quality and GHG Data

551 Keyes Street - Santa Clara County, Winter

551 Keyes Street

Santa Clara County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	8.50	1000sqft	0.20	8,500.00	0
Apartments Mid Rise	84.00	Dwelling Unit	0.61	64,904.00	240

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Description

Construction Phase - Project Assumptions

Demolition -

Grading -

Vehicle Trips - Project Assumptions

Woodstoves - No wood burning fireplaces per BAAQMD

Area Coating -

Construction Off-road Equipment Mitigation - BAAqMD rule Compliance

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation - per AB 939

Table Name	Column Name	Default Value	New Value
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tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
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tblConstructionPhase	NumDays	100.00	300.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	40.00
tblConstructionPhase	NumDays	5.00	25.00
tblConstructionPhase	NumDays	1.00	30.00
tblGrading	MaterialExported	0.00	20,328.00
tblLandUse	LandUseSquareFeet	84,000.00	64,904.00
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tblVehicleEF	LDT1	0.22	0.17
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.71
tblVehicleEF	LDT1	0.19	0.38
tblVehicleEF	LDT2	4.9930e-003	3.2453e-003
tblVehicleEF	LDT2	6.4640e-003	0.07
tblVehicleEF	LDT2	0.68	0.79
tblVehicleEF	LDT2	1.42	2.79
tblVehicleEF	LDT2	332.30	312.82
tblVehicleEF	LDT2	77.35	67.73
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.27
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.42
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3280e-003	3.0947e-003
tblVehicleEF	LDT2	7.9700e-004	6.7020e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.5520e-003	3.6499e-003
tblVehicleEF	LDT2	5.3620e-003	0.06
tblVehicleEF	LDT2	0.80	0.92
tblVehicleEF	LDT2	1.13	2.19
tblVehicleEF	LDT2	357.57	331.51
tblVehicleEF	LDT2	77.35	66.61
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.24
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
tblVehicleEF	LDT2	0.09	0.14
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.07	0.25
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tblVehicleEF	LDT2	7.9200e-004	6.5915e-004
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tblVehicleEF	LDT2	0.07	0.12
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tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	4.8570e-003	3.1224e-003
tblVehicleEF	LDT2	7.3180e-003	0.07
tblVehicleEF	LDT2	0.67	0.77
tblVehicleEF	LDT2	1.67	3.27
tblVehicleEF	LDT2	328.13	309.75
tblVehicleEF	LDT2	77.35	68.62
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.29
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.09	0.51
tblVehicleEF	LDT2	0.10	0.35
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tblVehicleEF	LDT2	0.09	0.51
tblVehicleEF	LDT2	0.11	0.38
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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
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tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.98	8.94
tblVehicleEF	LHD1	687.79	794.16
tblVehicleEF	LHD1	32.26	11.83
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.10	0.73
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	8.6000e-004	8.2546e-004
tblVehicleEF	LHD1	0.08	0.08

tblVehicleEF	LHD1	0.01	9.7472e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5500e-004	2.5764e-004
tblVehicleEF	LHD1	8.2300e-004	7.8975e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
tblVehicleEF	LHD1	0.01	9.7196e-003
tblVehicleEF	LHD1	8.7800e-004	2.3689e-004
tblVehicleEF	LHD1	2.6370e-003	2.0244e-003
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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3460e-003	1.0323e-003
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tblVehicleEF	LHD1	2.6370e-003	2.0244e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3460e-003	1.0323e-003
tblVehicleEF	LHD1	0.15	0.11
tblVehicleEF	LHD1	0.32	0.52
tblVehicleEF	LHD1	0.29	0.08
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tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	1.04	0.79

tblVehicleEF	LHD1	2.39	1.01
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tblVehicleEF	LHD1	687.79	794.19
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tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.05	0.70
tblVehicleEF	LHD1	0.93	0.30
tblVehicleEF	LHD1	8.6000e-004	8.2546e-004
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tblVehicleEF	LHD1	0.01	9.7472e-003
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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
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tblVehicleEF	LHD1	5.9200e-003	4.5635e-003
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tblVehicleEF	LHD1	0.02	0.02
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tblVehicleEF	LHD1	0.31	0.51
tblVehicleEF	LHD1	0.25	0.07
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tblVehicleEF	LHD1	6.7510e-003	7.7556e-003
tblVehicleEF	LHD1	3.6800e-004	1.1570e-004
tblVehicleEF	LHD1	5.9200e-003	4.5635e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	2.7600e-003	2.1346e-003
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tblVehicleEF	LHD1	0.31	0.51
tblVehicleEF	LHD1	0.27	0.08
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tblVehicleEF	LHD1	0.15	0.19
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tblVehicleEF	LHD1	687.79	794.13
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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
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tblVehicleEF	LHD1	0.02	0.02
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tblVehicleEF	LHD2	6.7190e-003	8.4306e-003
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tblVehicleEF	LHD2	24.06	7.83
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tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1600e-004	1.3331e-004

tblVehicleEF	LHD2	1.1880e-003	1.3615e-003
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tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8300e-004	1.2258e-004
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tblVehicleEF	LHD2	0.01	0.02
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tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.07	0.28
tblVehicleEF	LHD2	0.09	0.04
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tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.3700e-004	5.4669e-004
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tblVehicleEF	LHD2	0.07	0.28
tblVehicleEF	LHD2	0.10	0.05
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tblVehicleEF	LHD2	7.6800e-003	7.1394e-003
tblVehicleEF	LHD2	6.3670e-003	7.9698e-003
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tblVehicleEF	LHD2	705.76	768.74

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tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
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tblVehicleEF	LHD2	1.1880e-003	1.3615e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
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tblVehicleEF	LHD2	0.01	0.02
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tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
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tblVehicleEF	LHD2	0.02	0.02
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tblVehicleEF	LHD2	0.07	0.27

tblVehicleEF	LHD2	0.09	0.04
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tblVehicleEF	LHD2	7.0230e-003	8.8256e-003
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tblVehicleEF	LHD2	0.55	0.62
tblVehicleEF	LHD2	1.24	0.67
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tblVehicleEF	LHD2	705.76	768.72
tblVehicleEF	LHD2	24.06	7.91
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tblVehicleEF	LHD2	0.01	0.01
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tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
tblVehicleEF	LHD2	0.01	0.01
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tblVehicleEF	LHD2	4.1700e-004	5.4319e-004
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tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	2.3200e-004	2.8952e-004
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tblVehicleEF	LHD2	0.08	0.31
tblVehicleEF	LHD2	0.09	0.04

tblVehicleEF	LHD2	1.3600e-004	1.3386e-004
tblVehicleEF	LHD2	6.8630e-003	7.4237e-003
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tblVehicleEF	LHD2	4.1700e-004	5.4319e-004
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.3200e-004	2.8952e-004
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tblVehicleEF	LHD2	0.08	0.31
tblVehicleEF	LHD2	0.10	0.05
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tblVehicleEF	MCY	1.15	1.15
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
tblVehicleEF	MCY	3.7340e-003	3.0393e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	0.90	0.90
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	0.49	0.49
tblVehicleEF	MCY	2.20	2.21

tblVehicleEF	MCY	0.60	1.97
tblVehicleEF	MCY	2.20	1.94
tblVehicleEF	MCY	2.0680e-003	2.0798e-003
tblVehicleEF	MCY	6.8300e-004	6.0403e-004
tblVehicleEF	MCY	0.90	0.90
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	0.49	0.49
tblVehicleEF	MCY	2.73	2.74
tblVehicleEF	MCY	0.60	1.97
tblVehicleEF	MCY	2.39	2.11
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	18.08	18.20
tblVehicleEF	MCY	8.95	7.88
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tblVehicleEF	MCY	1.01	1.01
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
tblVehicleEF	MCY	3.7340e-003	3.0393e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	2.33	2.33
tblVehicleEF	MCY	0.92	0.92
tblVehicleEF	MCY	1.34	1.33
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.84
tblVehicleEF	MCY	1.85	1.62
tblVehicleEF	MCY	2.0550e-003	2.0666e-003
tblVehicleEF	MCY	6.5200e-004	5.7525e-004
tblVehicleEF	MCY	2.33	2.33
tblVehicleEF	MCY	0.92	0.92
tblVehicleEF	MCY	1.34	1.33
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.56	1.84
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.19	0.29
tblVehicleEF	MCY	20.17	20.32
tblVehicleEF	MCY	11.61	10.36
tblVehicleEF	MCY	169.68	212.79
tblVehicleEF	MCY	45.14	64.19
tblVehicleEF	MCY	1.23	1.23
tblVehicleEF	MCY	0.34	0.29
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
tblVehicleEF	MCY	3.7340e-003	3.0393e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	0.39	0.40
tblVehicleEF	MCY	0.84	0.82
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	2.29	2.30

tblVehicleEF	MCY	0.71	2.35
tblVehicleEF	MCY	2.54	2.26
tblVehicleEF	MCY	2.0940e-003	2.1058e-003
tblVehicleEF	MCY	7.1600e-004	6.3521e-004
tblVehicleEF	MCY	0.39	0.40
tblVehicleEF	MCY	0.84	0.82
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	2.84	2.84
tblVehicleEF	MCY	0.71	2.35
tblVehicleEF	MCY	2.77	2.46
tblVehicleEF	MDV	9.4310e-003	3.9103e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.06	0.87
tblVehicleEF	MDV	2.68	3.13
tblVehicleEF	MDV	444.47	378.63
tblVehicleEF	MDV	101.69	81.00
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.23	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	0.11	0.44
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4500e-003	3.7426e-003
tblVehicleEF	MDV	1.0640e-003	8.0152e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.44
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	0.01	4.3946e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.24	1.01
tblVehicleEF	MDV	2.12	2.45
tblVehicleEF	MDV	477.37	397.69
tblVehicleEF	MDV	101.69	79.71
tblVehicleEF	MDV	0.12	0.07
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.14	0.16
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.10	0.41
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	4.7820e-003	3.9311e-003
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tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.41
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	9.2130e-003	3.7721e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.05	0.85
tblVehicleEF	MDV	3.14	3.68
tblVehicleEF	MDV	439.05	375.51
tblVehicleEF	MDV	101.69	82.03
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.25	0.35
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	0.13	0.53
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	4.3960e-003	3.7117e-003
tblVehicleEF	MDV	1.0720e-003	8.1177e-004
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.53
tblVehicleEF	MDV	0.25	0.47
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
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tblVehicleEF	MH	0.81	0.25
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1290e-003	2.7407e-004
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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0380e-003	2.5200e-004
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tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.28	0.25
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.02	1.44
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	6.8600e-004	1.8485e-004
tblVehicleEF	MH	0.81	0.71
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.28	0.25
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.02	1.44
tblVehicleEF	MH	0.35	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.04	1.15
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tblVehicleEF	MH	1.21	1.29
tblVehicleEF	MH	0.76	0.23
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1290e-003	2.7407e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2190e-003	3.2747e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0380e-003	2.5200e-004
tblVehicleEF	MH	1.81	1.59
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.59	0.52
tblVehicleEF	MH	0.09	0.07

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tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	6.7700e-004	1.8165e-004
tblVehicleEF	MH	1.81	1.59
tblVehicleEF	MH	0.07	0.06
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tblVehicleEF	MH	0.13	0.09
tblVehicleEF	MH	0.02	1.40
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.89	1.08
tblVehicleEF	MH	6.07	2.30
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tblVehicleEF	MH	1.33	1.40
tblVehicleEF	MH	0.86	0.26
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1290e-003	2.7407e-004
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tblVehicleEF	MH	3.2190e-003	3.2747e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0380e-003	2.5200e-004
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tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.16	0.14
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.02	1.55
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	0.40	0.36
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tblVehicleEF	MHD	0.35	0.05
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tblVehicleEF	MHD	0.04	0.02
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tblVehicleEF	MHD	3.1090e-003	6.9550e-003
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tblVehicleEF	MHD	3.0000e-003	3.0000e-003
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tblVehicleEF	OBUS	1.0740e-003	9.8276e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.03	0.17
tblVehicleEF	OBUS	0.29	0.08
tblVehicleEF	OBUS	1.0090e-003	8.6303e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4900e-004	1.5034e-004
tblVehicleEF	OBUS	2.6050e-003	2.3810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0740e-003	9.8276e-004
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.03	0.17
tblVehicleEF	OBUS	0.32	0.09
tblVehicleEF	OBUS	0.01	6.9549e-003
tblVehicleEF	OBUS	6.2370e-003	3.9163e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.58
tblVehicleEF	OBUS	0.44	0.46

tblVehicleEF	OBUS	5.41	2.04
tblVehicleEF	OBUS	92.74	93.46
tblVehicleEF	OBUS	1,293.67	1,341.72
tblVehicleEF	OBUS	66.88	15.73
tblVehicleEF	OBUS	0.20	0.39
tblVehicleEF	OBUS	0.90	1.47
tblVehicleEF	OBUS	2.77	1.10
tblVehicleEF	OBUS	2.3000e-005	1.3855e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6550e-003	7.0285e-003
tblVehicleEF	OBUS	8.0900e-004	1.4163e-004
tblVehicleEF	OBUS	2.2000e-005	1.3255e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5210e-003	6.7121e-003
tblVehicleEF	OBUS	7.4400e-004	1.3022e-004
tblVehicleEF	OBUS	6.3300e-004	5.9470e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	2.9300e-004	2.7596e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.03	0.19
tblVehicleEF	OBUS	0.33	0.10
tblVehicleEF	OBUS	8.9700e-004	8.8790e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6300e-004	1.5567e-004
tblVehicleEF	OBUS	6.3300e-004	5.9470e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06

tblVehicleEF	OBUS	2.9300e-004	2.7596e-004
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.03	0.19
tblVehicleEF	OBUS	0.36	0.10
tblVehicleEF	SBUS	0.83	0.05
tblVehicleEF	SBUS	0.02	6.3564e-003
tblVehicleEF	SBUS	0.08	4.7835e-003
tblVehicleEF	SBUS	8.17	2.18
tblVehicleEF	SBUS	1.05	0.52
tblVehicleEF	SBUS	9.75	0.70
tblVehicleEF	SBUS	1,109.35	347.39
tblVehicleEF	SBUS	1,051.90	1,060.99
tblVehicleEF	SBUS	56.07	3.98
tblVehicleEF	SBUS	8.47	3.53
tblVehicleEF	SBUS	3.71	4.87
tblVehicleEF	SBUS	12.10	0.81
tblVehicleEF	SBUS	8.0590e-003	3.9045e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.0100e-004	4.5501e-005
tblVehicleEF	SBUS	7.7100e-003	3.7356e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6280e-003	2.7271e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.2900e-004	4.1836e-005
tblVehicleEF	SBUS	3.4510e-003	5.3742e-004
tblVehicleEF	SBUS	0.04	5.2206e-003
tblVehicleEF	SBUS	0.97	0.24
tblVehicleEF	SBUS	1.4880e-003	2.2686e-004

tblVehicleEF	SBUS	0.11	0.09
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	0.48	0.03
tblVehicleEF	SBUS	0.01	3.3058e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.2900e-004	3.9403e-005
tblVehicleEF	SBUS	3.4510e-003	5.3742e-004
tblVehicleEF	SBUS	0.04	5.2206e-003
tblVehicleEF	SBUS	1.40	0.35
tblVehicleEF	SBUS	1.4880e-003	2.2686e-004
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	0.53	0.03
tblVehicleEF	SBUS	0.83	0.05
tblVehicleEF	SBUS	0.02	6.4556e-003
tblVehicleEF	SBUS	0.07	4.0213e-003
tblVehicleEF	SBUS	8.07	2.14
tblVehicleEF	SBUS	1.08	0.53
tblVehicleEF	SBUS	7.16	0.51
tblVehicleEF	SBUS	1,158.83	356.82
tblVehicleEF	SBUS	1,051.90	1,061.01
tblVehicleEF	SBUS	56.07	3.67
tblVehicleEF	SBUS	8.74	3.61
tblVehicleEF	SBUS	3.55	4.68
tblVehicleEF	SBUS	12.05	0.81
tblVehicleEF	SBUS	6.7940e-003	3.2991e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.0100e-004	4.5501e-005

tblVehicleEF	SBUS	6.5000e-003	3.1564e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6280e-003	2.7271e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.2900e-004	4.1836e-005
tblVehicleEF	SBUS	7.6490e-003	1.2029e-003
tblVehicleEF	SBUS	0.04	5.4575e-003
tblVehicleEF	SBUS	0.97	0.24
tblVehicleEF	SBUS	3.0940e-003	4.7869e-004
tblVehicleEF	SBUS	0.11	0.09
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.41	0.02
tblVehicleEF	SBUS	0.01	3.3948e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8500e-004	3.6344e-005
tblVehicleEF	SBUS	7.6490e-003	1.2029e-003
tblVehicleEF	SBUS	0.04	5.4575e-003
tblVehicleEF	SBUS	1.40	0.34
tblVehicleEF	SBUS	3.0940e-003	4.7869e-004
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.44	0.03
tblVehicleEF	SBUS	0.83	0.05
tblVehicleEF	SBUS	0.02	6.2767e-003
tblVehicleEF	SBUS	0.09	5.4684e-003
tblVehicleEF	SBUS	8.32	2.23
tblVehicleEF	SBUS	1.03	0.51
tblVehicleEF	SBUS	12.35	0.89
tblVehicleEF	SBUS	1,041.03	334.38
tblVehicleEF	SBUS	1,051.90	1,060.98

tblVehicleEF	SBUS	56.07	4.29
tblVehicleEF	SBUS	8.10	3.41
tblVehicleEF	SBUS	3.78	4.96
tblVehicleEF	SBUS	12.14	0.81
tblVehicleEF	SBUS	9.8060e-003	4.7406e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.0100e-004	4.5501e-005
tblVehicleEF	SBUS	9.3820e-003	4.5355e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6280e-003	2.7271e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.2900e-004	4.1836e-005
tblVehicleEF	SBUS	1.8830e-003	2.8902e-004
tblVehicleEF	SBUS	0.04	5.3218e-003
tblVehicleEF	SBUS	0.98	0.24
tblVehicleEF	SBUS	8.5400e-004	1.2934e-004
tblVehicleEF	SBUS	0.11	0.09
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.55	0.03
tblVehicleEF	SBUS	0.01	3.1828e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.7200e-004	4.2468e-005
tblVehicleEF	SBUS	1.8830e-003	2.8902e-004
tblVehicleEF	SBUS	0.04	5.3218e-003
tblVehicleEF	SBUS	1.41	0.35
tblVehicleEF	SBUS	8.5400e-004	1.2934e-004
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.02	0.05

tblVehicleEF	SBUS	0.60	0.03
tblVehicleEF	UBUS	0.27	1.35
tblVehicleEF	UBUS	0.04	1.4174e-003
tblVehicleEF	UBUS	4.81	10.12
tblVehicleEF	UBUS	7.98	0.14
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.39
tblVehicleEF	UBUS	9.47	0.73
tblVehicleEF	UBUS	14.57	0.01
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	2.2820e-003	1.9372e-005
tblVehicleEF	UBUS	0.04	1.3321e-004
tblVehicleEF	UBUS	1.1230e-003	7.8236e-006
tblVehicleEF	UBUS	0.58	0.02
tblVehicleEF	UBUS	8.3050e-003	5.9168e-004
tblVehicleEF	UBUS	0.58	5.8827e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.1810e-003	1.3764e-005
tblVehicleEF	UBUS	2.2820e-003	1.9372e-005
tblVehicleEF	UBUS	0.04	1.3321e-004
tblVehicleEF	UBUS	1.1230e-003	7.8236e-006
tblVehicleEF	UBUS	0.90	1.38
tblVehicleEF	UBUS	8.3050e-003	5.9168e-004

tblVehicleEF	UBUS	0.63	6.4408e-003
tblVehicleEF	UBUS	0.27	1.35
tblVehicleEF	UBUS	0.04	1.2560e-003
tblVehicleEF	UBUS	4.86	10.12
tblVehicleEF	UBUS	6.37	0.11
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.35
tblVehicleEF	UBUS	9.09	0.73
tblVehicleEF	UBUS	14.51	9.3546e-003
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	5.3820e-003	5.1276e-005
tblVehicleEF	UBUS	0.04	2.1346e-004
tblVehicleEF	UBUS	2.5900e-003	2.5977e-005
tblVehicleEF	UBUS	0.59	0.02
tblVehicleEF	UBUS	7.6100e-003	5.3006e-004
tblVehicleEF	UBUS	0.50	5.2053e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.1530e-003	1.3334e-005
tblVehicleEF	UBUS	5.3820e-003	5.1276e-005
tblVehicleEF	UBUS	0.04	2.1346e-004
tblVehicleEF	UBUS	2.5900e-003	2.5977e-005
tblVehicleEF	UBUS	0.91	1.38
tblVehicleEF	UBUS	7.6100e-003	5.3006e-004

tblVehicleEF	UBUS	0.55	5.6991e-003
tblVehicleEF	UBUS	0.26	1.35
tblVehicleEF	UBUS	0.05	1.5528e-003
tblVehicleEF	UBUS	4.77	10.12
tblVehicleEF	UBUS	9.51	0.16
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.43
tblVehicleEF	UBUS	9.63	0.73
tblVehicleEF	UBUS	14.62	0.01
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	1.2210e-003	9.0550e-006
tblVehicleEF	UBUS	0.05	1.6004e-004
tblVehicleEF	UBUS	5.9400e-004	3.0537e-006
tblVehicleEF	UBUS	0.58	0.02
tblVehicleEF	UBUS	0.01	7.5546e-004
tblVehicleEF	UBUS	0.64	6.4543e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.2070e-003	1.4156e-005
tblVehicleEF	UBUS	1.2210e-003	9.0550e-006
tblVehicleEF	UBUS	0.05	1.6004e-004
tblVehicleEF	UBUS	5.9400e-004	3.0537e-006
tblVehicleEF	UBUS	0.89	1.38
tblVehicleEF	UBUS	0.01	7.5546e-004

tblVehicleEF	UBUS	0.70	7.0667e-003
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	6.39	4.52
tblVehicleTrips	SU_TR	5.86	4.52
tblVehicleTrips	WD_TR	6.65	4.52

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					
2022	1.6277	22.0817	16.2146	0.0609	2.0029	0.6740	2.3868	0.7487	0.6236	1.1155	0.0000	6,366.3450	6,366.3450	0.6832	0.0000	6,377.6689
2023	10.3451	8.6006	10.6647	0.0221	0.7002	0.3956	1.0959	0.1873	0.3697	0.5570	0.0000	2,166.9714	2,166.9714	0.3947	0.0000	2,176.8391
Maximum	**10.3451**	**22.0817**	**16.2146**	**0.0609**	**2.0029**	**0.6740**	**2.3868**	**0.7487**	**0.6236**	**1.1155**	**0.0000**	**6,366.3450**	**6,366.3450**	**0.6832**	**0.0000**	**6,377.6689**

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					
2022	1.6277	22.0817	16.2146	0.0609	1.4843	0.6740	1.8682	0.4934	0.6236	0.8603	0.0000	6,366.3450	6,366.3450	0.6832	0.0000	6,377.6689

2023	10.3451	8.6006	10.6647	0.0221	0.6644	0.3956	1.0600	0.1785	0.3697	0.5481	0.0000	2,166.9714	2,166.9714	0.3947	0.0000	2,176.8391
Maximum	**10.3451**	**22.0817**	**16.2146**	**0.0609**	**1.4843**	**0.6740**	**1.8682**	**0.4934**	**0.6236**	**0.8603**	**0.0000**	**6,366.3450**	**6,366.3450**	**0.6832**	**0.0000**	**6,377.6689**

	ROG	NOx	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**	**20.51**	**0.00**	**15.92**	**28.22**	**0.00**	**15.79**	**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	36.3980	0.8436	52.5744	0.0883		6.5179	6.5179		6.5179	6.5179	703.1511	323.7744	1,026.9255	0.9742	0.0497	1,066.0920
Energy	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
Mobile	0.8041	1.2913	6.9075	0.0194	2.0844	0.0148	2.0992	0.5556	0.0138	0.5694		1,987.2612	1,987.2612	0.0947		1,989.6286
Total	**37.2236**	**2.3181**	**59.5599**	**0.1089**	**2.0844**	**6.5475**	**8.6319**	**0.5556**	**6.5465**	**7.1021**	**703.1511**	**2,544.9482**	**3,248.0993**	**1.0734**	**0.0540**	**3,291.0232**

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	1.8522	0.0799	6.9325	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4803	12.4803	0.0120	0.0000	12.7804

Energy	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
Mobile	0.8041	1.2913	6.9075	0.0194	2.0844	0.0148	2.0992	0.5556	0.0138	0.5694		1,987.2612	1,987.2612	0.0947		1,989.6286
Total	**2.6778**	**1.5544**	**13.9180**	**0.0210**	**2.0844**	**0.0680**	**2.1524**	**0.5556**	**0.0670**	**0.6226**	**0.0000**	**2,233.6541**	**2,233.6541**	**0.1112**	**4.2900e-003**	**2,237.7116**

	ROG	NOx	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	**92.81**	**32.95**	**76.63**	**80.75**	**0.00**	**98.96**	**75.06**	**0.00**	**98.98**	**91.23**	**100.00**	**12.23**	**31.23**	**89.64**	**92.05**	**32.01**

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	2/1/2022	1/31/2022	5	0	
2	Site Preparation	Site Preparation	2/1/2022	3/14/2022	5	30	
3	Grading	Grading	3/15/2022	5/9/2022	5	40	
4	Paving	Paving	5/10/2022	6/13/2022	5	25	
5	Building Construction	Building Construction	6/13/2022	8/4/2023	5	300	
6	Architectural Coating	Architectural Coating	4/17/2023	8/31/2023	5	99	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.2

Residential Indoor: 131,431; Residential Outdoor: 43,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	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	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	64.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

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

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**

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**

3.3 Site Preparation - 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					

Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**0.5303**	**0.2573**	**0.7876**	**0.0573**	**0.2367**	**0.2940**		**942.5179**	**942.5179**	**0.3048**		**950.1386**

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	0.0160	0.0105	0.1068	3.5000e-004	0.0411	2.4000e-004	0.0413	0.0109	2.2000e-004	0.0111		34.4405	34.4405	7.3000e-004		34.4589
Total	**0.0160**	**0.0105**	**0.1068**	**3.5000e-004**	**0.0411**	**2.4000e-004**	**0.0413**	**0.0109**	**2.2000e-004**	**0.0111**		**34.4405**	**34.4405**	**7.3000e-004**		**34.4589**

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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**0.2267**	**0.2573**	**0.4840**	**0.0245**	**0.2367**	**0.2612**	**0.0000**	**942.5179**	**942.5179**	**0.3048**		**950.1386**

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	0.0160	0.0105	0.1068	3.5000e-004	0.0389	2.4000e-004	0.0392	0.0104	2.2000e-004	0.0106		34.4405	34.4405	7.3000e-004		34.4589
Total	**0.0160**	**0.0105**	**0.1068**	**3.5000e-004**	**0.0389**	**2.4000e-004**	**0.0392**	**0.0104**	**2.2000e-004**	**0.0106**		**34.4405**	**34.4405**	**7.3000e-004**		**34.4589**

3.4 Grading - 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					
Fugitive Dust					0.8102	0.0000	0.8102	0.4225	0.0000	0.4225			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	**0.7094**	**6.4138**	**7.4693**	**0.0120**	**0.8102**	**0.3375**	**1.1478**	**0.4225**	**0.3225**	**0.7450**		**1,147.9025**	**1,147.9025**	**0.2119**		**1,153.2001**

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	0.4769	15.6469	3.7842	0.0482	1.1105	0.0459	1.1564	0.3044	0.0439	0.3483		5,149.5615	5,149.5615	0.2396		5,155.5511
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0321	0.0209	0.2135	6.9000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		68.8810	68.8810	1.4700e-003		68.9177
Total	**0.5089**	**15.6678**	**3.9977**	**0.0489**	**1.1927**	**0.0464**	**1.2390**	**0.3262**	**0.0443**	**0.3705**		**5,218.4425**	**5,218.4425**	**0.2411**		**5,224.4688**

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					0.3464	0.0000	0.3464	0.1806	0.0000	0.1806			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	**0.7094**	**6.4138**	**7.4693**	**0.0120**	**0.3464**	**0.3375**	**0.6839**	**0.1806**	**0.3225**	**0.5032**	**0.0000**	**1,147.9025**	**1,147.9025**	**0.2119**		**1,153.2001**

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	0.4769	15.6469	3.7842	0.0482	1.0601	0.0459	1.1060	0.2920	0.0439	0.3359		5,149.5615	5,149.5615	0.2396		5,155.5511

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0321	0.0209	0.2135	6.9000e-004	0.0779	4.9000e-004	0.0784	0.0207	4.5000e-004	0.0212		68.8810	68.8810	1.4700e-003		68.9177
Total	**0.5089**	**15.6678**	**3.9977**	**0.0489**	**1.1380**	**0.0464**	**1.1843**	**0.3128**	**0.0443**	**0.3571**		**5,218.4425**	**5,218.4425**	**0.2411**		**5,224.4688**

3.5 Paving - 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	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6469**	**5.9174**	**7.0348**	**0.0113**		**0.2961**	**0.2961**		**0.2758**	**0.2758**		**1,035.8246**	**1,035.8246**	**0.3017**		**1,043.3677**

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	0.0577	0.0376	0.3843	1.2400e-003	0.1479	8.8000e-004	0.1487	0.0392	8.1000e-004	0.0400		123.9858	123.9858	2.6500e-003		124.0519
Total	**0.0577**	**0.0376**	**0.3843**	**1.2400e-003**	**0.1479**	**8.8000e-004**	**0.1487**	**0.0392**	**8.1000e-004**	**0.0400**		**123.9858**	**123.9858**	**2.6500e-003**		**124.0519**

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	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6469**	**5.9174**	**7.0348**	**0.0113**		**0.2961**	**0.2961**		**0.2758**	**0.2758**	**0.0000**	**1,035.8246**	**1,035.8246**	**0.3017**		**1,043.3677**

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	0.0577	0.0376	0.3843	1.2400e-003	0.1402	8.8000e-004	0.1410	0.0373	8.1000e-004	0.0381		123.9858	123.9858	2.6500e-003		124.0519
Total	**0.0577**	**0.0376**	**0.3843**	**1.2400e-003**	**0.1402**	**8.8000e-004**	**0.1410**	**0.0373**	**8.1000e-004**	**0.0381**		**123.9858**	**123.9858**	**2.6500e-003**		**124.0519**

3.6 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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	**0.6863**	**7.0258**	**7.1527**	**0.0114**		**0.3719**	**0.3719**		**0.3422**	**0.3422**		**1,103.9393**	**1,103.9393**	**0.3570**		**1,112.8652**

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	0.0315	0.9692	0.2763	2.6300e-003	0.0677	2.0200e-003	0.0697	0.0195	1.9300e-003	0.0214		278.5520	278.5520	0.0124		278.8613
Worker	0.2052	0.1338	1.3665	4.4200e-003	0.5257	3.1200e-003	0.5289	0.1395	2.8800e-003	0.1423		440.8384	440.8384	9.4000e-003		441.0735
Total	**0.2368**	**1.1030**	**1.6428**	**7.0500e-003**	**0.5935**	**5.1400e-003**	**0.5986**	**0.1589**	**4.8100e-003**	**0.1638**		**719.3904**	**719.3904**	**0.0218**		**719.9348**

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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652

Total	**0.6863**	**7.0258**	**7.1527**	**0.0114**		**0.3719**	**0.3719**		**0.3422**	**0.3422**	**0.0000**	**1,103.9393**	**1,103.9393**	**0.3570**		**1,112.8652**

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	0.0315	0.9692	0.2763	2.6300e-003	0.0648	2.0200e-003	0.0668	0.0188	1.9300e-003	0.0207		278.5520	278.5520	0.0124		278.8613
Worker	0.2052	0.1338	1.3665	4.4200e-003	0.4983	3.1200e-003	0.5015	0.1327	2.8800e-003	0.1356		440.8384	440.8384	9.4000e-003		441.0735
Total	**0.2368**	**1.1030**	**1.6428**	**7.0500e-003**	**0.5631**	**5.1400e-003**	**0.5683**	**0.1515**	**4.8100e-003**	**0.1563**		**719.3904**	**719.3904**	**0.0218**		**719.9348**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
Total	**0.6322**	**6.4186**	**7.0970**	**0.0114**		**0.3203**	**0.3203**		**0.2946**	**0.2946**		**1,104.6089**	**1,104.6089**	**0.3573**		**1,113.5402**

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	0.0238	0.7343	0.2463	2.5600e-003	0.0677	8.8000e-004	0.0686	0.0195	8.4000e-004	0.0203		270.6740	270.6740	0.0105		270.9363
Worker	0.1925	0.1203	1.2553	4.2500e-003	0.5257	3.0600e-003	0.5288	0.1395	2.8200e-003	0.1423		424.0960	424.0960	8.4100e-003		424.3064
Total	**0.2163**	**0.8546**	**1.5016**	**6.8100e-003**	**0.5935**	**3.9400e-003**	**0.5974**	**0.1589**	**3.6600e-003**	**0.1626**		**694.7700**	**694.7700**	**0.0189**		**695.2427**

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	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
Total	**0.6322**	**6.4186**	**7.0970**	**0.0114**		**0.3203**	**0.3203**		**0.2946**	**0.2946**	**0.0000**	**1,104.6089**	**1,104.6089**	**0.3573**		**1,113.5402**

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	0.0238	0.7343	0.2463	2.5600e-003	0.0648	8.8000e-004	0.0657	0.0188	8.4000e-004	0.0196		270.6740	270.6740	0.0105		270.9363
Worker	0.1925	0.1203	1.2553	4.2500e-003	0.4983	3.0600e-003	0.5014	0.1327	2.8200e-003	0.1355		424.0960	424.0960	8.4100e-003		424.3064
Total	**0.2163**	**0.8546**	**1.5016**	**6.8100e-003**	**0.5632**	**3.9400e-003**	**0.5671**	**0.1515**	**3.6600e-003**	**0.1552**		**694.7700**	**694.7700**	**0.0189**		**695.2427**

3.7 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	9.2658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**9.4575**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

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	0.0391	0.0244	0.2550	8.6000e-004	0.1068	6.2000e-004	0.1074	0.0283	5.7000e-004	0.0289		86.1445	86.1445	1.7100e-003		86.1872
Total	**0.0391**	**0.0244**	**0.2550**	**8.6000e-004**	**0.1068**	**6.2000e-004**	**0.1074**	**0.0283**	**5.7000e-004**	**0.0289**		**86.1445**	**86.1445**	**1.7100e-003**		**86.1872**

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	9.2658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**9.4575**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

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	0.0391	0.0244	0.2550	8.6000e-004	0.1012	6.2000e-004	0.1019	0.0270	5.7000e-004	0.0275		86.1445	86.1445	1.7100e-003		86.1872
Total	**0.0391**	**0.0244**	**0.2550**	**8.6000e-004**	**0.1012**	**6.2000e-004**	**0.1019**	**0.0270**	**5.7000e-004**	**0.0275**		**86.1445**	**86.1445**	**1.7100e-003**		**86.1872**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8041	1.2913	6.9075	0.0194	2.0844	0.0148	2.0992	0.5556	0.0138	0.5694		1,987.2612	1,987.2612	0.0947		1,989.6286
Unmitigated	0.8041	1.2913	6.9075	0.0194	2.0844	0.0148	2.0992	0.5556	0.0138	0.5694		1,987.2612	1,987.2612	0.0947		1,989.6286

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	379.68	379.68	379.68	987,602	987,602
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	379.68	379.68	379.68	987,602	987,602

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	100	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Enclosed Parking with Elevator	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

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	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
NaturalGas Unmitigated	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026

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	1988.26	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0214**	**0.1832**	**0.0780**	**1.1700e-003**		**0.0148**	**0.0148**		**0.0148**	**0.0148**		**233.9126**	**233.9126**	**4.4800e-003**	**4.2900e-003**	**235.3026**

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	1.98826	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0214**	**0.1832**	**0.0780**	**1.1700e-003**		**0.0148**	**0.0148**		**0.0148**	**0.0148**		**233.9126**	**233.9126**	**4.4800e-003**	**4.2900e-003**	**235.3026**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8522	0.0799	6.9325	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4803	12.4803	0.0120	0.0000	12.7804
Unmitigated	36.3980	0.8436	52.5744	0.0883		6.5179	6.5179		6.5179	6.5179	703.1511	323.7744	1,026.9255	0.9742	0.0497	1,066.0920

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	0.2513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	34.5459	0.7637	45.6419	0.0879		6.4795	6.4795		6.4795	6.4795	703.1511	311.2941	1,014.4452	0.9622	0.0497	1,053.3116
Landscaping	0.2089	0.0799	6.9325	3.7000e-004		0.0384	0.0384		0.0384	0.0384		12.4803	12.4803	0.0120		12.7804
Total	**36.3980**	**0.8436**	**52.5744**	**0.0883**		**6.5179**	**6.5179**		**6.5179**	**6.5179**	**703.1511**	**323.7744**	**1,026.9255**	**0.9742**	**0.0497**	**1,066.0920**

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	0.2513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3920					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	0.2089	0.0799	6.9325	3.7000e-004		0.0384	0.0384		0.0384	0.0384		12.4803	12.4803	0.0120		12.7804
Total	**1.8522**	**0.0799**	**6.9325**	**3.7000e-004**		**0.0384**	**0.0384**		**0.0384**	**0.0384**	**0.0000**	**12.4803**	**12.4803**	**0.0120**	**0.0000**	**12.7804**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

551 Keyes Street

Santa Clara County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	8.50	1000sqft	0.20	8,500.00	0
Apartments Mid Rise	84.00	Dwelling Unit	0.61	64,904.00	240

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Description

Construction Phase - Project Assumptions

Demolition -

Grading -

Vehicle Trips - Project Assumptions

Woodstoves - No wood burning fireplaces per BAAQMD

Area Coating -

Construction Off-road Equipment Mitigation - BAAqMD rule Compliance

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation - per AB 939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	99.00
tblConstructionPhase	NumDays	100.00	300.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	40.00
tblConstructionPhase	NumDays	5.00	25.00
tblConstructionPhase	NumDays	1.00	30.00
tblGrading	MaterialExported	0.00	20,328.00
tblLandUse	LandUseSquareFeet	84,000.00	64,904.00
tblLandUse	LotAcreage	2.21	0.61
tblVehicleEF	HHD	0.34	0.02
tblVehicleEF	HHD	0.05	0.05
tblVehicleEF	HHD	0.08	4.9085e-007
tblVehicleEF	HHD	1.61	6.34
tblVehicleEF	HHD	0.91	0.40
tblVehicleEF	HHD	3.69	5.9193e-003
tblVehicleEF	HHD	4,386.48	1,065.38
tblVehicleEF	HHD	1,557.95	1,436.68
tblVehicleEF	HHD	11.75	0.05
tblVehicleEF	HHD	13.99	5.44
tblVehicleEF	HHD	1.98	2.68

tblVehicleEF	HHD	19.39	2.32
tblVehicleEF	HHD	8.0650e-003	2.6704e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1860e-003	0.02
tblVehicleEF	HHD	1.0500e-004	7.1941e-007
tblVehicleEF	HHD	7.7170e-003	2.5549e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8320e-003	8.8783e-003
tblVehicleEF	HHD	5.9180e-003	0.02
tblVehicleEF	HHD	9.7000e-005	6.6147e-007
tblVehicleEF	HHD	9.8000e-005	2.5387e-006
tblVehicleEF	HHD	5.1360e-003	1.1586e-004
tblVehicleEF	HHD	0.42	0.43
tblVehicleEF	HHD	6.1000e-005	1.4054e-006
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	4.1700e-004	5.9360e-004
tblVehicleEF	HHD	0.09	2.5671e-006
tblVehicleEF	HHD	0.04	9.9143e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.7800e-004	4.8771e-007
tblVehicleEF	HHD	9.8000e-005	2.5387e-006
tblVehicleEF	HHD	5.1360e-003	1.1586e-004
tblVehicleEF	HHD	0.48	0.49
tblVehicleEF	HHD	6.1000e-005	1.4054e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.1700e-004	5.9360e-004
tblVehicleEF	HHD	0.10	2.8107e-006
tblVehicleEF	HHD	0.32	0.03
tblVehicleEF	HHD	0.05	0.05

tblVehicleEF	HHD	0.08	4.5832e-007
tblVehicleEF	HHD	1.17	6.25
tblVehicleEF	HHD	0.92	0.40
tblVehicleEF	HHD	3.39	5.4412e-003
tblVehicleEF	HHD	4,647.09	1,053.45
tblVehicleEF	HHD	1,557.95	1,436.68
tblVehicleEF	HHD	11.75	0.05
tblVehicleEF	HHD	14.44	5.20
tblVehicleEF	HHD	1.91	2.58
tblVehicleEF	HHD	19.36	2.32
tblVehicleEF	HHD	6.8000e-003	2.3347e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1860e-003	0.02
tblVehicleEF	HHD	1.0500e-004	7.1941e-007
tblVehicleEF	HHD	6.5060e-003	2.2337e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8320e-003	8.8783e-003
tblVehicleEF	HHD	5.9180e-003	0.02
tblVehicleEF	HHD	9.7000e-005	6.6147e-007
tblVehicleEF	HHD	2.1900e-004	6.4969e-006
tblVehicleEF	HHD	5.5190e-003	1.2746e-004
tblVehicleEF	HHD	0.39	0.45
tblVehicleEF	HHD	1.2600e-004	3.5256e-006
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	4.0400e-004	5.9042e-004
tblVehicleEF	HHD	0.09	2.4077e-006
tblVehicleEF	HHD	0.04	9.8026e-003
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.7400e-004	4.8021e-007

tblVehicleEF	HHD	2.1900e-004	6.4969e-006
tblVehicleEF	HHD	5.5190e-003	1.2746e-004
tblVehicleEF	HHD	0.46	0.52
tblVehicleEF	HHD	1.2600e-004	3.5256e-006
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.0400e-004	5.9042e-004
tblVehicleEF	HHD	0.10	2.6361e-006
tblVehicleEF	HHD	0.37	0.02
tblVehicleEF	HHD	0.05	0.05
tblVehicleEF	HHD	0.09	5.1783e-007
tblVehicleEF	HHD	2.21	6.47
tblVehicleEF	HHD	0.90	0.40
tblVehicleEF	HHD	3.96	6.3517e-003
tblVehicleEF	HHD	4,026.60	1,081.85
tblVehicleEF	HHD	1,557.95	1,436.68
tblVehicleEF	HHD	11.75	0.05
tblVehicleEF	HHD	13.37	5.77
tblVehicleEF	HHD	2.02	2.72
tblVehicleEF	HHD	19.40	2.32
tblVehicleEF	HHD	9.8130e-003	3.1341e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.1860e-003	0.02
tblVehicleEF	HHD	1.0500e-004	7.1941e-007
tblVehicleEF	HHD	9.3890e-003	2.9985e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8320e-003	8.8783e-003
tblVehicleEF	HHD	5.9180e-003	0.02
tblVehicleEF	HHD	9.7000e-005	6.6147e-007
tblVehicleEF	HHD	5.1000e-005	1.1794e-006

tblVehicleEF	HHD	5.3340e-003	1.3001e-004
tblVehicleEF	HHD	0.45	0.39
tblVehicleEF	HHD	3.2000e-005	6.3605e-007
tblVehicleEF	HHD	0.09	0.03
tblVehicleEF	HHD	4.6600e-004	6.4501e-004
tblVehicleEF	HHD	0.10	2.6988e-006
tblVehicleEF	HHD	0.04	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	1.8300e-004	4.9450e-007
tblVehicleEF	HHD	5.1000e-005	1.1794e-006
tblVehicleEF	HHD	5.3340e-003	1.3001e-004
tblVehicleEF	HHD	0.52	0.45
tblVehicleEF	HHD	3.2000e-005	6.3605e-007
tblVehicleEF	HHD	0.15	0.08
tblVehicleEF	HHD	4.6600e-004	6.4501e-004
tblVehicleEF	HHD	0.11	2.9548e-006
tblVehicleEF	LDA	3.3580e-003	1.9576e-003
tblVehicleEF	LDA	4.7330e-003	0.05
tblVehicleEF	LDA	0.50	0.56
tblVehicleEF	LDA	1.08	2.16
tblVehicleEF	LDA	234.26	242.23
tblVehicleEF	LDA	55.12	51.37
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.6260e-003	1.3555e-003
tblVehicleEF	LDA	2.2310e-003	1.7500e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003

tblVehicleEF	LDA	1.4980e-003	1.2485e-003
tblVehicleEF	LDA	2.0520e-003	1.6091e-003
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	8.4470e-003	7.4542e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.3450e-003	2.3962e-003
tblVehicleEF	LDA	5.6900e-004	5.0834e-004
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.02	0.03
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	3.7410e-003	2.2113e-003
tblVehicleEF	LDA	3.9240e-003	0.04
tblVehicleEF	LDA	0.59	0.66
tblVehicleEF	LDA	0.86	1.70
tblVehicleEF	LDA	252.52	260.70
tblVehicleEF	LDA	55.12	50.52
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	1.6260e-003	1.3555e-003
tblVehicleEF	LDA	2.2310e-003	1.7500e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003

tblVehicleEF	LDA	1.4980e-003	1.2485e-003
tblVehicleEF	LDA	2.0520e-003	1.6091e-003
tblVehicleEF	LDA	0.06	0.09
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	9.3950e-003	8.2877e-003
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.05	0.18
tblVehicleEF	LDA	2.5290e-003	2.5789e-003
tblVehicleEF	LDA	5.6500e-004	4.9999e-004
tblVehicleEF	LDA	0.06	0.09
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.05	0.07
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.19
tblVehicleEF	LDA	0.06	0.19
tblVehicleEF	LDA	3.2660e-003	1.8807e-003
tblVehicleEF	LDA	5.3590e-003	0.05
tblVehicleEF	LDA	0.49	0.55
tblVehicleEF	LDA	1.26	2.53
tblVehicleEF	LDA	231.25	239.19
tblVehicleEF	LDA	55.12	52.05
tblVehicleEF	LDA	0.05	0.04
tblVehicleEF	LDA	0.07	0.19
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	8.0000e-003	8.0000e-003
tblVehicleEF	LDA	1.6260e-003	1.3555e-003
tblVehicleEF	LDA	2.2310e-003	1.7500e-003
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	2.0000e-003	2.0000e-003

tblVehicleEF	LDA	1.4980e-003	1.2485e-003
tblVehicleEF	LDA	2.0520e-003	1.6091e-003
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.09	0.09
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	8.2190e-003	7.2502e-003
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.07	0.24
tblVehicleEF	LDA	2.3150e-003	2.3662e-003
tblVehicleEF	LDA	5.7200e-004	5.1505e-004
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.09	0.09
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tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.24
tblVehicleEF	LDA	0.08	0.26
tblVehicleEF	LDT1	7.8390e-003	4.1628e-003
tblVehicleEF	LDT1	0.01	0.06
tblVehicleEF	LDT1	1.00	0.95
tblVehicleEF	LDT1	2.29	2.35
tblVehicleEF	LDT1	292.52	289.26
tblVehicleEF	LDT1	68.20	62.09
tblVehicleEF	LDT1	0.10	0.08
tblVehicleEF	LDT1	0.13	0.23
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1830e-003	1.7660e-003
tblVehicleEF	LDT1	2.9190e-003	2.2509e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

tblVehicleEF	LDT1	2.0100e-003	1.6252e-003
tblVehicleEF	LDT1	2.6840e-003	2.0697e-003
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.58
tblVehicleEF	LDT1	0.15	0.31
tblVehicleEF	LDT1	2.9360e-003	2.8625e-003
tblVehicleEF	LDT1	7.2200e-004	6.1441e-004
tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.15	0.58
tblVehicleEF	LDT1	0.16	0.34
tblVehicleEF	LDT1	8.6410e-003	4.6511e-003
tblVehicleEF	LDT1	9.1080e-003	0.05
tblVehicleEF	LDT1	1.16	1.10
tblVehicleEF	LDT1	1.80	1.84
tblVehicleEF	LDT1	314.43	308.27
tblVehicleEF	LDT1	68.20	61.11
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.11	0.20
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1830e-003	1.7660e-003
tblVehicleEF	LDT1	2.9190e-003	2.2509e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

tblVehicleEF	LDT1	2.0100e-003	1.6252e-003
tblVehicleEF	LDT1	2.6840e-003	2.0697e-003
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.13	0.00
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.53
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT1	3.1580e-003	3.0505e-003
tblVehicleEF	LDT1	7.1300e-004	6.0478e-004
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.53
tblVehicleEF	LDT1	0.13	0.28
tblVehicleEF	LDT1	7.6850e-003	4.0211e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.99	0.93
tblVehicleEF	LDT1	2.69	2.75
tblVehicleEF	LDT1	288.91	286.15
tblVehicleEF	LDT1	68.20	62.87
tblVehicleEF	LDT1	0.11	0.09
tblVehicleEF	LDT1	0.14	0.25
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1830e-003	1.7660e-003
tblVehicleEF	LDT1	2.9190e-003	2.2509e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

tblVehicleEF	LDT1	2.0100e-003	1.6252e-003
tblVehicleEF	LDT1	2.6840e-003	2.0697e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.17
tblVehicleEF	LDT1	0.03	0.00
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.18	0.71
tblVehicleEF	LDT1	0.17	0.35
tblVehicleEF	LDT1	2.9000e-003	2.8316e-003
tblVehicleEF	LDT1	7.2900e-004	6.2214e-004
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.17
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.71
tblVehicleEF	LDT1	0.19	0.38
tblVehicleEF	LDT2	4.9930e-003	3.2453e-003
tblVehicleEF	LDT2	6.4640e-003	0.07
tblVehicleEF	LDT2	0.68	0.79
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tblVehicleEF	LDT2	77.35	67.73
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.27
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.42
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3280e-003	3.0947e-003
tblVehicleEF	LDT2	7.9700e-004	6.7020e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.42
tblVehicleEF	LDT2	0.10	0.34
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tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.24
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
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tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.07	0.25
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tblVehicleEF	LDT2	7.9200e-004	6.5915e-004
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tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	4.8570e-003	3.1224e-003
tblVehicleEF	LDT2	7.3180e-003	0.07
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tblVehicleEF	LDT2	0.12	0.29
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.09	0.51
tblVehicleEF	LDT2	0.10	0.35
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tblVehicleEF	LDT2	8.0200e-004	6.7907e-004
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tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.02	0.03
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tblVehicleEF	LDT2	0.11	0.38
tblVehicleEF	LHD1	5.3570e-003	5.1617e-003
tblVehicleEF	LHD1	0.02	8.5454e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	1.02	0.77
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.98	8.94
tblVehicleEF	LHD1	687.79	794.16
tblVehicleEF	LHD1	32.26	11.83
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.10	0.73
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	8.6000e-004	8.2546e-004
tblVehicleEF	LHD1	0.08	0.08

tblVehicleEF	LHD1	0.01	9.7472e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5500e-004	2.5764e-004
tblVehicleEF	LHD1	8.2300e-004	7.8975e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
tblVehicleEF	LHD1	0.01	9.7196e-003
tblVehicleEF	LHD1	8.7800e-004	2.3689e-004
tblVehicleEF	LHD1	2.6370e-003	2.0244e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3460e-003	1.0323e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.32	0.52
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6775e-005
tblVehicleEF	LHD1	6.7510e-003	7.7553e-003
tblVehicleEF	LHD1	3.7100e-004	1.1705e-004
tblVehicleEF	LHD1	2.6370e-003	2.0244e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3460e-003	1.0323e-003
tblVehicleEF	LHD1	0.15	0.11
tblVehicleEF	LHD1	0.32	0.52
tblVehicleEF	LHD1	0.29	0.08
tblVehicleEF	LHD1	5.3570e-003	5.1765e-003
tblVehicleEF	LHD1	0.02	8.7503e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	1.04	0.79

tblVehicleEF	LHD1	2.39	1.01
tblVehicleEF	LHD1	8.98	8.94
tblVehicleEF	LHD1	687.79	794.19
tblVehicleEF	LHD1	32.26	11.69
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.05	0.70
tblVehicleEF	LHD1	0.93	0.30
tblVehicleEF	LHD1	8.6000e-004	8.2546e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7472e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5500e-004	2.5764e-004
tblVehicleEF	LHD1	8.2300e-004	7.8975e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
tblVehicleEF	LHD1	0.01	9.7196e-003
tblVehicleEF	LHD1	8.7800e-004	2.3689e-004
tblVehicleEF	LHD1	5.9200e-003	4.5635e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.7600e-003	2.1346e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.31	0.51
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6775e-005
tblVehicleEF	LHD1	6.7510e-003	7.7556e-003
tblVehicleEF	LHD1	3.6800e-004	1.1570e-004
tblVehicleEF	LHD1	5.9200e-003	4.5635e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	2.7600e-003	2.1346e-003
tblVehicleEF	LHD1	0.15	0.12
tblVehicleEF	LHD1	0.31	0.51
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.3570e-003	5.1491e-003
tblVehicleEF	LHD1	0.02	8.3843e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	1.00	0.76
tblVehicleEF	LHD1	2.77	1.16
tblVehicleEF	LHD1	8.98	8.94
tblVehicleEF	LHD1	687.79	794.13
tblVehicleEF	LHD1	32.26	11.96
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.13	0.75
tblVehicleEF	LHD1	1.05	0.34
tblVehicleEF	LHD1	8.6000e-004	8.2546e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7472e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5500e-004	2.5764e-004
tblVehicleEF	LHD1	8.2300e-004	7.8975e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
tblVehicleEF	LHD1	0.01	9.7196e-003
tblVehicleEF	LHD1	8.7800e-004	2.3689e-004
tblVehicleEF	LHD1	1.3360e-003	1.0188e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	7.1100e-004	5.4146e-004

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tblVehicleEF	LHD1	0.36	0.58
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6775e-005
tblVehicleEF	LHD1	6.7500e-003	7.7551e-003
tblVehicleEF	LHD1	3.7400e-004	1.1835e-004
tblVehicleEF	LHD1	1.3360e-003	1.0188e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	7.1100e-004	5.4146e-004
tblVehicleEF	LHD1	0.15	0.11
tblVehicleEF	LHD1	0.36	0.58
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD2	3.3720e-003	3.1551e-003
tblVehicleEF	LHD2	7.5730e-003	7.0601e-003
tblVehicleEF	LHD2	6.7190e-003	8.4306e-003
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tblVehicleEF	LHD2	0.55	0.62
tblVehicleEF	LHD2	1.16	0.63
tblVehicleEF	LHD2	13.98	14.00
tblVehicleEF	LHD2	705.76	768.73
tblVehicleEF	LHD2	24.06	7.83
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.69	0.88
tblVehicleEF	LHD2	0.44	0.18
tblVehicleEF	LHD2	1.2420e-003	1.4230e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1600e-004	1.3331e-004

tblVehicleEF	LHD2	1.1880e-003	1.3615e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8300e-004	1.2258e-004
tblVehicleEF	LHD2	8.1500e-004	1.0698e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.3700e-004	5.4669e-004
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.07	0.28
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3386e-004
tblVehicleEF	LHD2	6.8630e-003	7.4238e-003
tblVehicleEF	LHD2	2.6100e-004	7.7512e-005
tblVehicleEF	LHD2	8.1500e-004	1.0698e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.3700e-004	5.4669e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.07	0.28
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.3720e-003	3.1635e-003
tblVehicleEF	LHD2	7.6800e-003	7.1394e-003
tblVehicleEF	LHD2	6.3670e-003	7.9698e-003
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tblVehicleEF	LHD2	1.08	0.59
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tblVehicleEF	LHD2	705.76	768.74

tblVehicleEF	LHD2	24.06	7.75
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.67	0.84
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2420e-003	1.4230e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1600e-004	1.3331e-004
tblVehicleEF	LHD2	1.1880e-003	1.3615e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8300e-004	1.2258e-004
tblVehicleEF	LHD2	1.8300e-003	2.4215e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9900e-004	1.1372e-003
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3386e-004
tblVehicleEF	LHD2	6.8630e-003	7.4239e-003
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tblVehicleEF	LHD2	1.8300e-003	2.4215e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9900e-004	1.1372e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.07	0.27

tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.3720e-003	3.1479e-003
tblVehicleEF	LHD2	7.4890e-003	6.9966e-003
tblVehicleEF	LHD2	7.0230e-003	8.8256e-003
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tblVehicleEF	LHD2	0.55	0.62
tblVehicleEF	LHD2	1.24	0.67
tblVehicleEF	LHD2	13.98	14.00
tblVehicleEF	LHD2	705.76	768.72
tblVehicleEF	LHD2	24.06	7.91
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.71	0.89
tblVehicleEF	LHD2	0.47	0.19
tblVehicleEF	LHD2	1.2420e-003	1.4230e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1600e-004	1.3331e-004
tblVehicleEF	LHD2	1.1880e-003	1.3615e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8300e-004	1.2258e-004
tblVehicleEF	LHD2	4.1700e-004	5.4319e-004
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	2.3200e-004	2.8952e-004
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.08	0.31
tblVehicleEF	LHD2	0.09	0.04

tblVehicleEF	LHD2	1.3600e-004	1.3386e-004
tblVehicleEF	LHD2	6.8630e-003	7.4237e-003
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tblVehicleEF	LHD2	4.1700e-004	5.4319e-004
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.3200e-004	2.8952e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.08	0.31
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.45	0.33
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	18.74	18.87
tblVehicleEF	MCY	10.18	9.03
tblVehicleEF	MCY	169.68	210.17
tblVehicleEF	MCY	45.14	61.04
tblVehicleEF	MCY	1.15	1.15
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
tblVehicleEF	MCY	3.7340e-003	3.0393e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	0.90	0.90
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	0.49	0.49
tblVehicleEF	MCY	2.20	2.21

tblVehicleEF	MCY	0.60	1.97
tblVehicleEF	MCY	2.20	1.94
tblVehicleEF	MCY	2.0680e-003	2.0798e-003
tblVehicleEF	MCY	6.8300e-004	6.0403e-004
tblVehicleEF	MCY	0.90	0.90
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	0.49	0.49
tblVehicleEF	MCY	2.73	2.74
tblVehicleEF	MCY	0.60	1.97
tblVehicleEF	MCY	2.39	2.11
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	18.08	18.20
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tblVehicleEF	MCY	169.68	208.84
tblVehicleEF	MCY	45.14	58.13
tblVehicleEF	MCY	1.01	1.01
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
tblVehicleEF	MCY	3.7340e-003	3.0393e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	2.33	2.33
tblVehicleEF	MCY	0.92	0.92
tblVehicleEF	MCY	1.34	1.33
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.84
tblVehicleEF	MCY	1.85	1.62
tblVehicleEF	MCY	2.0550e-003	2.0666e-003
tblVehicleEF	MCY	6.5200e-004	5.7525e-004
tblVehicleEF	MCY	2.33	2.33
tblVehicleEF	MCY	0.92	0.92
tblVehicleEF	MCY	1.34	1.33
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.56	1.84
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.19	0.29
tblVehicleEF	MCY	20.17	20.32
tblVehicleEF	MCY	11.61	10.36
tblVehicleEF	MCY	169.68	212.79
tblVehicleEF	MCY	45.14	64.19
tblVehicleEF	MCY	1.23	1.23
tblVehicleEF	MCY	0.34	0.29
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
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tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	0.39	0.40
tblVehicleEF	MCY	0.84	0.82
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	2.29	2.30

tblVehicleEF	MCY	0.71	2.35
tblVehicleEF	MCY	2.54	2.26
tblVehicleEF	MCY	2.0940e-003	2.1058e-003
tblVehicleEF	MCY	7.1600e-004	6.3521e-004
tblVehicleEF	MCY	0.39	0.40
tblVehicleEF	MCY	0.84	0.82
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	2.84	2.84
tblVehicleEF	MCY	0.71	2.35
tblVehicleEF	MCY	2.77	2.46
tblVehicleEF	MDV	9.4310e-003	3.9103e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.06	0.87
tblVehicleEF	MDV	2.68	3.13
tblVehicleEF	MDV	444.47	378.63
tblVehicleEF	MDV	101.69	81.00
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.23	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	0.11	0.44
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4500e-003	3.7426e-003
tblVehicleEF	MDV	1.0640e-003	8.0152e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.44
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	0.01	4.3946e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.24	1.01
tblVehicleEF	MDV	2.12	2.45
tblVehicleEF	MDV	477.37	397.69
tblVehicleEF	MDV	101.69	79.71
tblVehicleEF	MDV	0.12	0.07
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.14	0.16
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.10	0.41
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	4.7820e-003	3.9311e-003
tblVehicleEF	MDV	1.0540e-003	7.8877e-004
tblVehicleEF	MDV	0.14	0.16
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.41
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	9.2130e-003	3.7721e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.05	0.85
tblVehicleEF	MDV	3.14	3.68
tblVehicleEF	MDV	439.05	375.51
tblVehicleEF	MDV	101.69	82.03
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.25	0.35
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	0.13	0.53
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	4.3960e-003	3.7117e-003
tblVehicleEF	MDV	1.0720e-003	8.1177e-004
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.53
tblVehicleEF	MDV	0.25	0.47
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.96	1.11
tblVehicleEF	MH	5.58	2.13
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tblVehicleEF	MH	58.85	18.68
tblVehicleEF	MH	1.29	1.36
tblVehicleEF	MH	0.81	0.25
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1290e-003	2.7407e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2190e-003	3.2747e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0380e-003	2.5200e-004
tblVehicleEF	MH	0.81	0.71
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.28	0.25
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.02	1.44
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	6.8600e-004	1.8485e-004
tblVehicleEF	MH	0.81	0.71
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.28	0.25
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.02	1.44
tblVehicleEF	MH	0.35	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.04	1.15
tblVehicleEF	MH	5.06	1.94
tblVehicleEF	MH	1,212.08	1,532.82
tblVehicleEF	MH	58.85	18.36
tblVehicleEF	MH	1.21	1.29
tblVehicleEF	MH	0.76	0.23
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1290e-003	2.7407e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2190e-003	3.2747e-003
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tblVehicleEF	MH	1.0380e-003	2.5200e-004
tblVehicleEF	MH	1.81	1.59
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.59	0.52
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.02	1.40
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tblVehicleEF	MH	1.81	1.59
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.59	0.52
tblVehicleEF	MH	0.13	0.09
tblVehicleEF	MH	0.02	1.40
tblVehicleEF	MH	0.33	0.10
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tblVehicleEF	MH	0.03	0.02
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tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
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tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2190e-003	3.2747e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0380e-003	2.5200e-004
tblVehicleEF	MH	0.40	0.36
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.16	0.14
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.02	1.55
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.01	0.02
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tblVehicleEF	MH	0.08	0.07
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tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.02	0.05

tblVehicleEF	SBUS	0.60	0.03
tblVehicleEF	UBUS	0.27	1.35
tblVehicleEF	UBUS	0.04	1.4174e-003
tblVehicleEF	UBUS	4.81	10.12
tblVehicleEF	UBUS	7.98	0.14
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.39
tblVehicleEF	UBUS	9.47	0.73
tblVehicleEF	UBUS	14.57	0.01
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	2.2820e-003	1.9372e-005
tblVehicleEF	UBUS	0.04	1.3321e-004
tblVehicleEF	UBUS	1.1230e-003	7.8236e-006
tblVehicleEF	UBUS	0.58	0.02
tblVehicleEF	UBUS	8.3050e-003	5.9168e-004
tblVehicleEF	UBUS	0.58	5.8827e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.1810e-003	1.3764e-005
tblVehicleEF	UBUS	2.2820e-003	1.9372e-005
tblVehicleEF	UBUS	0.04	1.3321e-004
tblVehicleEF	UBUS	1.1230e-003	7.8236e-006
tblVehicleEF	UBUS	0.90	1.38
tblVehicleEF	UBUS	8.3050e-003	5.9168e-004

tblVehicleEF	UBUS	0.63	6.4408e-003
tblVehicleEF	UBUS	0.27	1.35
tblVehicleEF	UBUS	0.04	1.2560e-003
tblVehicleEF	UBUS	4.86	10.12
tblVehicleEF	UBUS	6.37	0.11
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.35
tblVehicleEF	UBUS	9.09	0.73
tblVehicleEF	UBUS	14.51	9.3546e-003
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	5.3820e-003	5.1276e-005
tblVehicleEF	UBUS	0.04	2.1346e-004
tblVehicleEF	UBUS	2.5900e-003	2.5977e-005
tblVehicleEF	UBUS	0.59	0.02
tblVehicleEF	UBUS	7.6100e-003	5.3006e-004
tblVehicleEF	UBUS	0.50	5.2053e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.1530e-003	1.3334e-005
tblVehicleEF	UBUS	5.3820e-003	5.1276e-005
tblVehicleEF	UBUS	0.04	2.1346e-004
tblVehicleEF	UBUS	2.5900e-003	2.5977e-005
tblVehicleEF	UBUS	0.91	1.38
tblVehicleEF	UBUS	7.6100e-003	5.3006e-004

tblVehicleEF	UBUS	0.55	5.6991e-003
tblVehicleEF	UBUS	0.26	1.35
tblVehicleEF	UBUS	0.05	1.5528e-003
tblVehicleEF	UBUS	4.77	10.12
tblVehicleEF	UBUS	9.51	0.16
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.43
tblVehicleEF	UBUS	9.63	0.73
tblVehicleEF	UBUS	14.62	0.01
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	1.2210e-003	9.0550e-006
tblVehicleEF	UBUS	0.05	1.6004e-004
tblVehicleEF	UBUS	5.9400e-004	3.0537e-006
tblVehicleEF	UBUS	0.58	0.02
tblVehicleEF	UBUS	0.01	7.5546e-004
tblVehicleEF	UBUS	0.64	6.4543e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.2070e-003	1.4156e-005
tblVehicleEF	UBUS	1.2210e-003	9.0550e-006
tblVehicleEF	UBUS	0.05	1.6004e-004
tblVehicleEF	UBUS	5.9400e-004	3.0537e-006
tblVehicleEF	UBUS	0.89	1.38
tblVehicleEF	UBUS	0.01	7.5546e-004

tblVehicleEF	UBUS	0.70	7.0667e-003
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	6.39	4.52
tblVehicleTrips	SU_TR	5.86	4.52
tblVehicleTrips	WD_TR	6.65	4.52

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					
2022	1.6090	21.7431	16.3329	0.0618	2.0029	0.6740	2.3860	0.7487	0.6236	1.1148	0.0000	6,462.8020	6,462.8020	0.6833	0.0000	6,473.8756
2023	10.3281	8.5708	10.7754	0.0226	0.7002	0.3956	1.0959	0.1873	0.3697	0.5569	0.0000	2,219.1115	2,219.1115	0.3949	0.0000	2,228.9833
Maximum	**10.3281**	**21.7431**	**16.3329**	**0.0618**	**2.0029**	**0.6740**	**2.3860**	**0.7487**	**0.6236**	**1.1148**	**0.0000**	**6,462.8020**	**6,462.8020**	**0.6833**	**0.0000**	**6,473.8756**

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					
2022	1.6090	21.7431	16.3329	0.0618	1.4843	0.6740	1.8674	0.4934	0.6236	0.8595	0.0000	6,462.8020	6,462.8020	0.6833	0.0000	6,473.8756

2023	10.3281	8.5708	10.7754	0.0226	0.6644	0.3956	1.0600	0.1785	0.3697	0.5481	0.0000	2,219.1115	2,219.1115	0.3949	0.0000	2,228.9833
Maximum	**10.3281**	**21.7431**	**16.3329**	**0.0618**	**1.4843**	**0.6740**	**1.8674**	**0.4934**	**0.6236**	**0.8595**	**0.0000**	**6,462.8020**	**6,462.8020**	**0.6833**	**0.0000**	**6,473.8756**

	ROG	NOx	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**	**20.51**	**0.00**	**15.92**	**28.22**	**0.00**	**15.80**	**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	36.3980	0.8436	52.5744	0.0883		6.5179	6.5179		6.5179	6.5179	703.1511	323.7744	1,026.9255	0.9742	0.0497	1,066.0920
Energy	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
Mobile	0.8161	1.1562	6.8199	0.0206	2.0844	0.0148	2.0992	0.5556	0.0138	0.5694		2,106.5453	2,106.5453	0.0843		2,108.6520
Total	**37.2356**	**2.1830**	**59.4723**	**0.1101**	**2.0844**	**6.5475**	**8.6319**	**0.5556**	**6.5465**	**7.1021**	**703.1511**	**2,664.2322**	**3,367.3833**	**1.0630**	**0.0540**	**3,410.0466**

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	1.8522	0.0799	6.9325	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4803	12.4803	0.0120	0.0000	12.7804

Energy	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
Mobile	0.8161	1.1562	6.8199	0.0206	2.0844	0.0148	2.0992	0.5556	0.0138	0.5694		2,106.5453	2,106.5453	0.0843		2,108.6520
Total	**2.6897**	**1.4193**	**13.8304**	**0.0221**	**2.0844**	**0.0679**	**2.1524**	**0.5556**	**0.0670**	**0.6225**	**0.0000**	**2,352.9381**	**2,352.9381**	**0.1008**	**4.2900e-003**	**2,356.7349**

	ROG	NOx	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	**92.78**	**34.98**	**76.74**	**79.89**	**0.00**	**98.96**	**75.07**	**0.00**	**98.98**	**91.23**	**100.00**	**11.68**	**30.13**	**90.52**	**92.05**	**30.89**

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	2/1/2022	1/31/2022	5	0	
2	Site Preparation	Site Preparation	2/1/2022	3/14/2022	5	30	
3	Grading	Grading	3/15/2022	5/9/2022	5	40	
4	Paving	Paving	5/10/2022	6/13/2022	5	25	
5	Building Construction	Building Construction	6/13/2022	8/4/2023	5	300	
6	Architectural Coating	Architectural Coating	4/17/2023	8/31/2023	5	99	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.2

Residential Indoor: 131,431; Residential Outdoor: 43,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	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	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	64.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

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

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**

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**

3.3 Site Preparation - 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					

Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**0.5303**	**0.2573**	**0.7876**	**0.0573**	**0.2367**	**0.2940**		**942.5179**	**942.5179**	**0.3048**		**950.1386**

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	0.0150	8.5600e-003	0.1161	3.8000e-004	0.0411	2.4000e-004	0.0413	0.0109	2.2000e-004	0.0111		37.4860	37.4860	7.9000e-004		37.5059
Total	**0.0150**	**8.5600e-003**	**0.1161**	**3.8000e-004**	**0.0411**	**2.4000e-004**	**0.0413**	**0.0109**	**2.2000e-004**	**0.0111**		**37.4860**	**37.4860**	**7.9000e-004**		**37.5059**

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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	**0.5797**	**6.9332**	**3.9597**	**9.7300e-003**	**0.2267**	**0.2573**	**0.4840**	**0.0245**	**0.2367**	**0.2612**	**0.0000**	**942.5179**	**942.5179**	**0.3048**		**950.1386**

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	0.0150	8.5600e-003	0.1161	3.8000e-004	0.0389	2.4000e-004	0.0392	0.0104	2.2000e-004	0.0106		37.4860	37.4860	7.9000e-004		37.5059
Total	**0.0150**	**8.5600e-003**	**0.1161**	**3.8000e-004**	**0.0389**	**2.4000e-004**	**0.0392**	**0.0104**	**2.2000e-004**	**0.0106**		**37.4860**	**37.4860**	**7.9000e-004**		**37.5059**

3.4 Grading - 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					
Fugitive Dust					0.8102	0.0000	0.8102	0.4225	0.0000	0.4225			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	**0.7094**	**6.4138**	**7.4693**	**0.0120**	**0.8102**	**0.3375**	**1.1478**	**0.4225**	**0.3225**	**0.7450**		**1,147.9025**	**1,147.9025**	**0.2119**		**1,153.2001**

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	0.4639	15.3121	3.5318	0.0490	1.1105	0.0451	1.1556	0.3044	0.0431	0.3475		5,239.9274	5,239.9274	0.2295		5,245.6637
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		74.9721	74.9721	1.5900e-003		75.0118
Total	**0.4940**	**15.3292**	**3.7640**	**0.0498**	**1.1927**	**0.0456**	**1.2382**	**0.3262**	**0.0436**	**0.3698**		**5,314.8995**	**5,314.8995**	**0.2310**		**5,320.6755**

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					0.3464	0.0000	0.3464	0.1806	0.0000	0.1806			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	**0.7094**	**6.4138**	**7.4693**	**0.0120**	**0.3464**	**0.3375**	**0.6839**	**0.1806**	**0.3225**	**0.5032**	**0.0000**	**1,147.9025**	**1,147.9025**	**0.2119**		**1,153.2001**

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	0.4639	15.3121	3.5318	0.0490	1.0601	0.0451	1.1052	0.2920	0.0431	0.3351		5,239.9274	5,239.9274	0.2295		5,245.6637

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0300	0.0171	0.2322	7.5000e-004	0.0779	4.9000e-004	0.0784	0.0207	4.5000e-004	0.0212		74.9721	74.9721	1.5900e-003		75.0118
Total	**0.4940**	**15.3292**	**3.7640**	**0.0498**	**1.1380**	**0.0456**	**1.1835**	**0.3128**	**0.0436**	**0.3563**		**5,314.8995**	**5,314.8995**	**0.2310**		**5,320.6755**

3.5 Paving - 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	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6469**	**5.9174**	**7.0348**	**0.0113**		**0.2961**	**0.2961**		**0.2758**	**0.2758**		**1,035.8246**	**1,035.8246**	**0.3017**		**1,043.3677**

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	0.0540	0.0308	0.4180	1.3500e-003	0.1479	8.8000e-004	0.1487	0.0392	8.1000e-004	0.0400		134.9497	134.9497	2.8600e-003		135.0212
Total	**0.0540**	**0.0308**	**0.4180**	**1.3500e-003**	**0.1479**	**8.8000e-004**	**0.1487**	**0.0392**	**8.1000e-004**	**0.0400**		**134.9497**	**134.9497**	**2.8600e-003**		**135.0212**

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	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.6469**	**5.9174**	**7.0348**	**0.0113**		**0.2961**	**0.2961**		**0.2758**	**0.2758**	**0.0000**	**1,035.8246**	**1,035.8246**	**0.3017**		**1,043.3677**

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	0.0540	0.0308	0.4180	1.3500e-003	0.1402	8.8000e-004	0.1410	0.0373	8.1000e-004	0.0381		134.9497	134.9497	2.8600e-003		135.0212
Total	**0.0540**	**0.0308**	**0.4180**	**1.3500e-003**	**0.1402**	**8.8000e-004**	**0.1410**	**0.0373**	**8.1000e-004**	**0.0381**		**134.9497**	**134.9497**	**2.8600e-003**		**135.0212**

3.6 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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	**0.6863**	**7.0258**	**7.1527**	**0.0114**		**0.3719**	**0.3719**		**0.3422**	**0.3422**		**1,103.9393**	**1,103.9393**	**0.3570**		**1,112.8652**

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	0.0297	0.9617	0.2413	2.7000e-003	0.0677	1.9500e-003	0.0697	0.0195	1.8700e-003	0.0214		285.8780	285.8780	0.0115		286.1652
Worker	0.1921	0.1096	1.4862	4.8100e-003	0.5257	3.1200e-003	0.5289	0.1395	2.8800e-003	0.1423		479.8213	479.8213	0.0102		480.0753
Total	**0.2218**	**1.0712**	**1.7275**	**7.5100e-003**	**0.5935**	**5.0700e-003**	**0.5985**	**0.1589**	**4.7500e-003**	**0.1637**		**765.6993**	**765.6993**	**0.0217**		**766.2405**

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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652

Total	**0.6863**	**7.0258**	**7.1527**	**0.0114**		**0.3719**	**0.3719**		**0.3422**	**0.3422**	**0.0000**	**1,103.9393**	**1,103.9393**	**0.3570**		**1,112.8652**

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	0.0297	0.9617	0.2413	2.7000e-003	0.0648	1.9500e-003	0.0668	0.0188	1.8700e-003	0.0207		285.8780	285.8780	0.0115		286.1652
Worker	0.1921	0.1096	1.4862	4.8100e-003	0.4983	3.1200e-003	0.5015	0.1327	2.8800e-003	0.1356		479.8213	479.8213	0.0102		480.0753
Total	**0.2218**	**1.0712**	**1.7275**	**7.5100e-003**	**0.5631**	**5.0700e-003**	**0.5682**	**0.1515**	**4.7500e-003**	**0.1563**		**765.6993**	**765.6993**	**0.0217**		**766.2405**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
Total	**0.6322**	**6.4186**	**7.0970**	**0.0114**		**0.3203**	**0.3203**		**0.2946**	**0.2946**		**1,104.6089**	**1,104.6089**	**0.3573**		**1,113.5402**

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	0.0224	0.7305	0.2179	2.6200e-003	0.0677	8.5000e-004	0.0686	0.0195	8.1000e-004	0.0203		277.7201	277.7201	9.8100e-003		277.9654
Worker	0.1795	0.0986	1.3708	4.6300e-003	0.5257	3.0600e-003	0.5288	0.1395	2.8200e-003	0.1423		461.5767	461.5767	9.1200e-003		461.8047
Total	**0.2019**	**0.8291**	**1.5887**	**7.2500e-003**	**0.5935**	**3.9100e-003**	**0.5974**	**0.1589**	**3.6300e-003**	**0.1626**		**739.2968**	**739.2968**	**0.0189**		**739.7701**

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	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
Total	**0.6322**	**6.4186**	**7.0970**	**0.0114**		**0.3203**	**0.3203**		**0.2946**	**0.2946**	**0.0000**	**1,104.6089**	**1,104.6089**	**0.3573**		**1,113.5402**

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	0.0224	0.7305	0.2179	2.6200e-003	0.0648	8.5000e-004	0.0657	0.0188	8.1000e-004	0.0196		277.7201	277.7201	9.8100e-003		277.9654
Worker	0.1795	0.0986	1.3708	4.6300e-003	0.4983	3.0600e-003	0.5014	0.1327	2.8200e-003	0.1355		461.5767	461.5767	9.1200e-003		461.8047
Total	**0.2019**	**0.8291**	**1.5887**	**7.2500e-003**	**0.5632**	**3.9100e-003**	**0.5671**	**0.1515**	**3.6300e-003**	**0.1551**		**739.2968**	**739.2968**	**0.0189**		**739.7701**

3.7 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	9.2658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**9.4575**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

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	0.0365	0.0200	0.2785	9.4000e-004	0.1068	6.2000e-004	0.1074	0.0283	5.7000e-004	0.0289		93.7578	93.7578	1.8500e-003		93.8041
Total	**0.0365**	**0.0200**	**0.2785**	**9.4000e-004**	**0.1068**	**6.2000e-004**	**0.1074**	**0.0283**	**5.7000e-004**	**0.0289**		**93.7578**	**93.7578**	**1.8500e-003**		**93.8041**

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	9.2658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**9.4575**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

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	0.0365	0.0200	0.2785	9.4000e-004	0.1012	6.2000e-004	0.1019	0.0270	5.7000e-004	0.0275		93.7578	93.7578	1.8500e-003		93.8041
Total	**0.0365**	**0.0200**	**0.2785**	**9.4000e-004**	**0.1012**	**6.2000e-004**	**0.1019**	**0.0270**	**5.7000e-004**	**0.0275**		**93.7578**	**93.7578**	**1.8500e-003**		**93.8041**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8161	1.1562	6.8199	0.0206	2.0844	0.0148	2.0992	0.5556	0.0138	0.5694		2,106.5453	2,106.5453	0.0843		2,108.6520
Unmitigated	0.8161	1.1562	6.8199	0.0206	2.0844	0.0148	2.0992	0.5556	0.0138	0.5694		2,106.5453	2,106.5453	0.0843		2,108.6520

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	379.68	379.68	379.68	987,602	987,602
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	379.68	379.68	379.68	987,602	987,602

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	100	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Enclosed Parking with Elevator	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

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	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
NaturalGas Unmitigated	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026

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	1988.26	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0214**	**0.1832**	**0.0780**	**1.1700e-003**		**0.0148**	**0.0148**		**0.0148**	**0.0148**		**233.9126**	**233.9126**	**4.4800e-003**	**4.2900e-003**	**235.3026**

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	1.98826	0.0214	0.1832	0.0780	1.1700e-003		0.0148	0.0148		0.0148	0.0148		233.9126	233.9126	4.4800e-003	4.2900e-003	235.3026
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0214**	**0.1832**	**0.0780**	**1.1700e-003**		**0.0148**	**0.0148**		**0.0148**	**0.0148**		**233.9126**	**233.9126**	**4.4800e-003**	**4.2900e-003**	**235.3026**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8522	0.0799	6.9325	3.7000e-004		0.0384	0.0384		0.0384	0.0384	0.0000	12.4803	12.4803	0.0120	0.0000	12.7804
Unmitigated	36.3980	0.8436	52.5744	0.0883		6.5179	6.5179		6.5179	6.5179	703.1511	323.7744	1,026.9255	0.9742	0.0497	1,066.0920

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	0.2513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3920					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	34.5459	0.7637	45.6419	0.0879		6.4795	6.4795		6.4795	6.4795	703.1511	311.2941	1,014.4452	0.9622	0.0497	1,053.3116
Landscaping	0.2089	0.0799	6.9325	3.7000e-004		0.0384	0.0384		0.0384	0.0384		12.4803	12.4803	0.0120		12.7804
Total	**36.3980**	**0.8436**	**52.5744**	**0.0883**		**6.5179**	**6.5179**		**6.5179**	**6.5179**	**703.1511**	**323.7744**	**1,026.9255**	**0.9742**	**0.0497**	**1,066.0920**

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	0.2513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3920					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	0.2089	0.0799	6.9325	3.7000e-004		0.0384	0.0384		0.0384	0.0384		12.4803	12.4803	0.0120		12.7804
Total	**1.8522**	**0.0799**	**6.9325**	**3.7000e-004**		**0.0384**	**0.0384**		**0.0384**	**0.0384**	**0.0000**	**12.4803**	**12.4803**	**0.0120**	**0.0000**	**12.7804**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

551 Keyes Street

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	8.50	1000sqft	0.20	8,500.00	0
Apartments Mid Rise	84.00	Dwelling Unit	0.61	64,904.00	240

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project Description

Construction Phase - Project Assumptions

Demolition -

Grading -

Vehicle Trips - Project Assumptions

Woodstoves - No wood burning fireplaces per BAAQMD

Area Coating -

Construction Off-road Equipment Mitigation - BAAqMD rule Compliance

Mobile Land Use Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation - per AB 939

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	99.00
tblConstructionPhase	NumDays	100.00	300.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	40.00
tblConstructionPhase	NumDays	5.00	25.00
tblConstructionPhase	NumDays	1.00	30.00
tblGrading	MaterialExported	0.00	20,328.00
tblLandUse	LandUseSquareFeet	84,000.00	64,904.00
tblLandUse	LotAcreage	2.21	0.61
tblVehicleEF	HHD	0.34	0.02
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tblVehicleEF	HHD	1.98	2.68

tblVehicleEF	HHD	19.39	2.32
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tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	0.05	0.05

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tblVehicleEF	HHD	1.7400e-004	4.8021e-007

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tblVehicleEF	HHD	5.9180e-003	0.02
tblVehicleEF	HHD	9.7000e-005	6.6147e-007
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tblVehicleEF	HHD	0.01	0.01
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tblVehicleEF	LDA	0.06	0.19
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tblVehicleEF	LDA	0.07	0.24
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tblVehicleEF	LDA	0.01	0.02
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tblVehicleEF	LDT1	0.13	0.23
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
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tblVehicleEF	LDT1	2.9190e-003	2.2509e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

tblVehicleEF	LDT1	2.0100e-003	1.6252e-003
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tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.06	0.00
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.15	0.58
tblVehicleEF	LDT1	0.15	0.31
tblVehicleEF	LDT1	2.9360e-003	2.8625e-003
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tblVehicleEF	LDT1	0.08	0.08
tblVehicleEF	LDT1	0.21	0.16
tblVehicleEF	LDT1	0.06	0.07
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.15	0.58
tblVehicleEF	LDT1	0.16	0.34
tblVehicleEF	LDT1	8.6410e-003	4.6511e-003
tblVehicleEF	LDT1	9.1080e-003	0.05
tblVehicleEF	LDT1	1.16	1.10
tblVehicleEF	LDT1	1.80	1.84
tblVehicleEF	LDT1	314.43	308.27
tblVehicleEF	LDT1	68.20	61.11
tblVehicleEF	LDT1	0.09	0.07
tblVehicleEF	LDT1	0.11	0.20
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1830e-003	1.7660e-003
tblVehicleEF	LDT1	2.9190e-003	2.2509e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

tblVehicleEF	LDT1	2.0100e-003	1.6252e-003
tblVehicleEF	LDT1	2.6840e-003	2.0697e-003
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.13	0.00
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.14	0.53
tblVehicleEF	LDT1	0.12	0.25
tblVehicleEF	LDT1	3.1580e-003	3.0505e-003
tblVehicleEF	LDT1	7.1300e-004	6.0478e-004
tblVehicleEF	LDT1	0.19	0.19
tblVehicleEF	LDT1	0.23	0.18
tblVehicleEF	LDT1	0.13	0.14
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.14	0.53
tblVehicleEF	LDT1	0.13	0.28
tblVehicleEF	LDT1	7.6850e-003	4.0211e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	0.99	0.93
tblVehicleEF	LDT1	2.69	2.75
tblVehicleEF	LDT1	288.91	286.15
tblVehicleEF	LDT1	68.20	62.87
tblVehicleEF	LDT1	0.11	0.09
tblVehicleEF	LDT1	0.14	0.25
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	8.0000e-003	8.0000e-003
tblVehicleEF	LDT1	2.1830e-003	1.7660e-003
tblVehicleEF	LDT1	2.9190e-003	2.2509e-003
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	2.0000e-003	2.0000e-003

tblVehicleEF	LDT1	2.0100e-003	1.6252e-003
tblVehicleEF	LDT1	2.6840e-003	2.0697e-003
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.17
tblVehicleEF	LDT1	0.03	0.00
tblVehicleEF	LDT1	0.02	0.02
tblVehicleEF	LDT1	0.18	0.71
tblVehicleEF	LDT1	0.17	0.35
tblVehicleEF	LDT1	2.9000e-003	2.8316e-003
tblVehicleEF	LDT1	7.2900e-004	6.2214e-004
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.17
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.18	0.71
tblVehicleEF	LDT1	0.19	0.38
tblVehicleEF	LDT2	4.9930e-003	3.2453e-003
tblVehicleEF	LDT2	6.4640e-003	0.07
tblVehicleEF	LDT2	0.68	0.79
tblVehicleEF	LDT2	1.42	2.79
tblVehicleEF	LDT2	332.30	312.82
tblVehicleEF	LDT2	77.35	67.73
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.27
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.42
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3280e-003	3.0947e-003
tblVehicleEF	LDT2	7.9700e-004	6.7020e-004
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.10	0.12
tblVehicleEF	LDT2	0.04	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.42
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.5520e-003	3.6499e-003
tblVehicleEF	LDT2	5.3620e-003	0.06
tblVehicleEF	LDT2	0.80	0.92
tblVehicleEF	LDT2	1.13	2.19
tblVehicleEF	LDT2	357.57	331.51
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tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.10	0.24
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
tblVehicleEF	LDT2	0.09	0.14
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.07	0.25
tblVehicleEF	LDT2	3.5820e-003	3.2796e-003
tblVehicleEF	LDT2	7.9200e-004	6.5915e-004
tblVehicleEF	LDT2	0.09	0.14
tblVehicleEF	LDT2	0.12	0.13
tblVehicleEF	LDT2	0.07	0.12
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.39
tblVehicleEF	LDT2	0.08	0.28
tblVehicleEF	LDT2	4.8570e-003	3.1224e-003
tblVehicleEF	LDT2	7.3180e-003	0.07
tblVehicleEF	LDT2	0.67	0.77
tblVehicleEF	LDT2	1.67	3.27
tblVehicleEF	LDT2	328.13	309.75
tblVehicleEF	LDT2	77.35	68.62
tblVehicleEF	LDT2	0.08	0.07
tblVehicleEF	LDT2	0.12	0.29
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	8.0000e-003	8.0000e-003
tblVehicleEF	LDT2	1.6420e-003	1.3891e-003
tblVehicleEF	LDT2	2.2820e-003	1.7509e-003
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	2.0000e-003	2.0000e-003

tblVehicleEF	LDT2	1.5110e-003	1.2786e-003
tblVehicleEF	LDT2	2.0990e-003	1.6099e-003
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.09	0.51
tblVehicleEF	LDT2	0.10	0.35
tblVehicleEF	LDT2	3.2860e-003	3.0643e-003
tblVehicleEF	LDT2	8.0200e-004	6.7907e-004
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.11	0.13
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tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.09	0.51
tblVehicleEF	LDT2	0.11	0.38
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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	1.02	0.77
tblVehicleEF	LHD1	2.58	1.08
tblVehicleEF	LHD1	8.98	8.94
tblVehicleEF	LHD1	687.79	794.16
tblVehicleEF	LHD1	32.26	11.83
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.10	0.73
tblVehicleEF	LHD1	0.99	0.32
tblVehicleEF	LHD1	8.6000e-004	8.2546e-004
tblVehicleEF	LHD1	0.08	0.08

tblVehicleEF	LHD1	0.01	9.7472e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5500e-004	2.5764e-004
tblVehicleEF	LHD1	8.2300e-004	7.8975e-004
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tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
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tblVehicleEF	LHD1	2.6370e-003	2.0244e-003
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tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.3460e-003	1.0323e-003
tblVehicleEF	LHD1	0.12	0.09
tblVehicleEF	LHD1	0.32	0.52
tblVehicleEF	LHD1	0.26	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6775e-005
tblVehicleEF	LHD1	6.7510e-003	7.7553e-003
tblVehicleEF	LHD1	3.7100e-004	1.1705e-004
tblVehicleEF	LHD1	2.6370e-003	2.0244e-003
tblVehicleEF	LHD1	0.10	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.3460e-003	1.0323e-003
tblVehicleEF	LHD1	0.15	0.11
tblVehicleEF	LHD1	0.32	0.52
tblVehicleEF	LHD1	0.29	0.08
tblVehicleEF	LHD1	5.3570e-003	5.1765e-003
tblVehicleEF	LHD1	0.02	8.7503e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	1.04	0.79

tblVehicleEF	LHD1	2.39	1.01
tblVehicleEF	LHD1	8.98	8.94
tblVehicleEF	LHD1	687.79	794.19
tblVehicleEF	LHD1	32.26	11.69
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.05	0.70
tblVehicleEF	LHD1	0.93	0.30
tblVehicleEF	LHD1	8.6000e-004	8.2546e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7472e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	9.5500e-004	2.5764e-004
tblVehicleEF	LHD1	8.2300e-004	7.8975e-004
tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
tblVehicleEF	LHD1	0.01	9.7196e-003
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tblVehicleEF	LHD1	5.9200e-003	4.5635e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
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tblVehicleEF	LHD1	0.31	0.51
tblVehicleEF	LHD1	0.25	0.07
tblVehicleEF	LHD1	9.0000e-005	8.6775e-005
tblVehicleEF	LHD1	6.7510e-003	7.7556e-003
tblVehicleEF	LHD1	3.6800e-004	1.1570e-004
tblVehicleEF	LHD1	5.9200e-003	4.5635e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03

tblVehicleEF	LHD1	2.7600e-003	2.1346e-003
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tblVehicleEF	LHD1	0.31	0.51
tblVehicleEF	LHD1	0.27	0.08
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tblVehicleEF	LHD1	0.02	8.3843e-003
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.15	0.19
tblVehicleEF	LHD1	1.00	0.76
tblVehicleEF	LHD1	2.77	1.16
tblVehicleEF	LHD1	8.98	8.94
tblVehicleEF	LHD1	687.79	794.13
tblVehicleEF	LHD1	32.26	11.96
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	1.13	0.75
tblVehicleEF	LHD1	1.05	0.34
tblVehicleEF	LHD1	8.6000e-004	8.2546e-004
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	0.01	9.7472e-003
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tblVehicleEF	LHD1	0.03	0.03
tblVehicleEF	LHD1	2.5220e-003	2.4368e-003
tblVehicleEF	LHD1	0.01	9.7196e-003
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tblVehicleEF	LHD1	1.3360e-003	1.0188e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	7.1100e-004	5.4146e-004

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tblVehicleEF	LHD1	0.36	0.58
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	9.0000e-005	8.6775e-005
tblVehicleEF	LHD1	6.7500e-003	7.7551e-003
tblVehicleEF	LHD1	3.7400e-004	1.1835e-004
tblVehicleEF	LHD1	1.3360e-003	1.0188e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	7.1100e-004	5.4146e-004
tblVehicleEF	LHD1	0.15	0.11
tblVehicleEF	LHD1	0.36	0.58
tblVehicleEF	LHD1	0.30	0.09
tblVehicleEF	LHD2	3.3720e-003	3.1551e-003
tblVehicleEF	LHD2	7.5730e-003	7.0601e-003
tblVehicleEF	LHD2	6.7190e-003	8.4306e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.55	0.62
tblVehicleEF	LHD2	1.16	0.63
tblVehicleEF	LHD2	13.98	14.00
tblVehicleEF	LHD2	705.76	768.73
tblVehicleEF	LHD2	24.06	7.83
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.69	0.88
tblVehicleEF	LHD2	0.44	0.18
tblVehicleEF	LHD2	1.2420e-003	1.4230e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1600e-004	1.3331e-004

tblVehicleEF	LHD2	1.1880e-003	1.3615e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8300e-004	1.2258e-004
tblVehicleEF	LHD2	8.1500e-004	1.0698e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.3700e-004	5.4669e-004
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.07	0.28
tblVehicleEF	LHD2	0.09	0.04
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tblVehicleEF	LHD2	6.8630e-003	7.4238e-003
tblVehicleEF	LHD2	2.6100e-004	7.7512e-005
tblVehicleEF	LHD2	8.1500e-004	1.0698e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	4.3700e-004	5.4669e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.07	0.28
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	LHD2	3.3720e-003	3.1635e-003
tblVehicleEF	LHD2	7.6800e-003	7.1394e-003
tblVehicleEF	LHD2	6.3670e-003	7.9698e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.56	0.63
tblVehicleEF	LHD2	1.08	0.59
tblVehicleEF	LHD2	13.98	14.00
tblVehicleEF	LHD2	705.76	768.74

tblVehicleEF	LHD2	24.06	7.75
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.67	0.84
tblVehicleEF	LHD2	0.42	0.17
tblVehicleEF	LHD2	1.2420e-003	1.4230e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1600e-004	1.3331e-004
tblVehicleEF	LHD2	1.1880e-003	1.3615e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
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tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	8.9900e-004	1.1372e-003
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.07	0.27
tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	1.3600e-004	1.3386e-004
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tblVehicleEF	LHD2	2.6000e-004	7.6734e-005
tblVehicleEF	LHD2	1.8300e-003	2.4215e-003
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.9900e-004	1.1372e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.07	0.27

tblVehicleEF	LHD2	0.09	0.04
tblVehicleEF	LHD2	3.3720e-003	3.1479e-003
tblVehicleEF	LHD2	7.4890e-003	6.9966e-003
tblVehicleEF	LHD2	7.0230e-003	8.8256e-003
tblVehicleEF	LHD2	0.12	0.14
tblVehicleEF	LHD2	0.55	0.62
tblVehicleEF	LHD2	1.24	0.67
tblVehicleEF	LHD2	13.98	14.00
tblVehicleEF	LHD2	705.76	768.72
tblVehicleEF	LHD2	24.06	7.91
tblVehicleEF	LHD2	0.10	0.10
tblVehicleEF	LHD2	0.71	0.89
tblVehicleEF	LHD2	0.47	0.19
tblVehicleEF	LHD2	1.2420e-003	1.4230e-003
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	4.1600e-004	1.3331e-004
tblVehicleEF	LHD2	1.1880e-003	1.3615e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	2.6910e-003	2.6876e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.8300e-004	1.2258e-004
tblVehicleEF	LHD2	4.1700e-004	5.4319e-004
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	2.3200e-004	2.8952e-004
tblVehicleEF	LHD2	0.10	0.11
tblVehicleEF	LHD2	0.08	0.31
tblVehicleEF	LHD2	0.09	0.04

tblVehicleEF	LHD2	1.3600e-004	1.3386e-004
tblVehicleEF	LHD2	6.8630e-003	7.4237e-003
tblVehicleEF	LHD2	2.6300e-004	7.8262e-005
tblVehicleEF	LHD2	4.1700e-004	5.4319e-004
tblVehicleEF	LHD2	0.03	0.05
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	2.3200e-004	2.8952e-004
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.08	0.31
tblVehicleEF	LHD2	0.10	0.05
tblVehicleEF	MCY	0.45	0.33
tblVehicleEF	MCY	0.16	0.26
tblVehicleEF	MCY	18.74	18.87
tblVehicleEF	MCY	10.18	9.03
tblVehicleEF	MCY	169.68	210.17
tblVehicleEF	MCY	45.14	61.04
tblVehicleEF	MCY	1.15	1.15
tblVehicleEF	MCY	0.32	0.27
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
tblVehicleEF	MCY	3.7340e-003	3.0393e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	0.90	0.90
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	0.49	0.49
tblVehicleEF	MCY	2.20	2.21

tblVehicleEF	MCY	0.60	1.97
tblVehicleEF	MCY	2.20	1.94
tblVehicleEF	MCY	2.0680e-003	2.0798e-003
tblVehicleEF	MCY	6.8300e-004	6.0403e-004
tblVehicleEF	MCY	0.90	0.90
tblVehicleEF	MCY	0.70	0.69
tblVehicleEF	MCY	0.49	0.49
tblVehicleEF	MCY	2.73	2.74
tblVehicleEF	MCY	0.60	1.97
tblVehicleEF	MCY	2.39	2.11
tblVehicleEF	MCY	0.43	0.32
tblVehicleEF	MCY	0.14	0.22
tblVehicleEF	MCY	18.08	18.20
tblVehicleEF	MCY	8.95	7.88
tblVehicleEF	MCY	169.68	208.84
tblVehicleEF	MCY	45.14	58.13
tblVehicleEF	MCY	1.01	1.01
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
tblVehicleEF	MCY	3.7340e-003	3.0393e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	2.33	2.33
tblVehicleEF	MCY	0.92	0.92
tblVehicleEF	MCY	1.34	1.33
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.84
tblVehicleEF	MCY	1.85	1.62
tblVehicleEF	MCY	2.0550e-003	2.0666e-003
tblVehicleEF	MCY	6.5200e-004	5.7525e-004
tblVehicleEF	MCY	2.33	2.33
tblVehicleEF	MCY	0.92	0.92
tblVehicleEF	MCY	1.34	1.33
tblVehicleEF	MCY	2.64	2.65
tblVehicleEF	MCY	0.56	1.84
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.46	0.34
tblVehicleEF	MCY	0.19	0.29
tblVehicleEF	MCY	20.17	20.32
tblVehicleEF	MCY	11.61	10.36
tblVehicleEF	MCY	169.68	212.79
tblVehicleEF	MCY	45.14	64.19
tblVehicleEF	MCY	1.23	1.23
tblVehicleEF	MCY	0.34	0.29
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	4.0000e-003	4.0000e-003
tblVehicleEF	MCY	2.0080e-003	1.9689e-003
tblVehicleEF	MCY	3.7340e-003	3.0393e-003
tblVehicleEF	MCY	5.0400e-003	5.0400e-003
tblVehicleEF	MCY	1.0000e-003	1.0000e-003
tblVehicleEF	MCY	1.8770e-003	1.8402e-003
tblVehicleEF	MCY	3.5160e-003	2.8589e-003
tblVehicleEF	MCY	0.39	0.40
tblVehicleEF	MCY	0.84	0.82
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	2.29	2.30

tblVehicleEF	MCY	0.71	2.35
tblVehicleEF	MCY	2.54	2.26
tblVehicleEF	MCY	2.0940e-003	2.1058e-003
tblVehicleEF	MCY	7.1600e-004	6.3521e-004
tblVehicleEF	MCY	0.39	0.40
tblVehicleEF	MCY	0.84	0.82
tblVehicleEF	MCY	0.19	0.19
tblVehicleEF	MCY	2.84	2.84
tblVehicleEF	MCY	0.71	2.35
tblVehicleEF	MCY	2.77	2.46
tblVehicleEF	MDV	9.4310e-003	3.9103e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.06	0.87
tblVehicleEF	MDV	2.68	3.13
tblVehicleEF	MDV	444.47	378.63
tblVehicleEF	MDV	101.69	81.00
tblVehicleEF	MDV	0.13	0.08
tblVehicleEF	MDV	0.23	0.32
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	0.11	0.44
tblVehicleEF	MDV	0.20	0.38
tblVehicleEF	MDV	4.4500e-003	3.7426e-003
tblVehicleEF	MDV	1.0640e-003	8.0152e-004
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.16	0.14
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.44
tblVehicleEF	MDV	0.22	0.42
tblVehicleEF	MDV	0.01	4.3946e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.24	1.01
tblVehicleEF	MDV	2.12	2.45
tblVehicleEF	MDV	477.37	397.69
tblVehicleEF	MDV	101.69	79.71
tblVehicleEF	MDV	0.12	0.07
tblVehicleEF	MDV	0.21	0.29
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.14	0.16
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.10	0.41
tblVehicleEF	MDV	0.17	0.32
tblVehicleEF	MDV	4.7820e-003	3.9311e-003
tblVehicleEF	MDV	1.0540e-003	7.8877e-004
tblVehicleEF	MDV	0.14	0.16
tblVehicleEF	MDV	0.18	0.15
tblVehicleEF	MDV	0.11	0.13
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.10	0.41
tblVehicleEF	MDV	0.18	0.35
tblVehicleEF	MDV	9.2130e-003	3.7721e-003
tblVehicleEF	MDV	0.02	0.09
tblVehicleEF	MDV	1.05	0.85
tblVehicleEF	MDV	3.14	3.68
tblVehicleEF	MDV	439.05	375.51
tblVehicleEF	MDV	101.69	82.03
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.25	0.35
tblVehicleEF	MDV	0.04	0.04
tblVehicleEF	MDV	8.0000e-003	8.0000e-003
tblVehicleEF	MDV	1.8000e-003	1.5106e-003
tblVehicleEF	MDV	2.4830e-003	1.9154e-003
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	2.0000e-003	2.0000e-003
tblVehicleEF	MDV	1.6590e-003	1.3932e-003
tblVehicleEF	MDV	2.2840e-003	1.7614e-003
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.02	0.02

tblVehicleEF	MDV	0.13	0.53
tblVehicleEF	MDV	0.23	0.43
tblVehicleEF	MDV	4.3960e-003	3.7117e-003
tblVehicleEF	MDV	1.0720e-003	8.1177e-004
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.17	0.14
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.53
tblVehicleEF	MDV	0.25	0.47
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.96	1.11
tblVehicleEF	MH	5.58	2.13
tblVehicleEF	MH	1,212.08	1,532.75
tblVehicleEF	MH	58.85	18.68
tblVehicleEF	MH	1.29	1.36
tblVehicleEF	MH	0.81	0.25
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1290e-003	2.7407e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2190e-003	3.2747e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0380e-003	2.5200e-004
tblVehicleEF	MH	0.81	0.71
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.28	0.25
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.02	1.44
tblVehicleEF	MH	0.32	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	6.8600e-004	1.8485e-004
tblVehicleEF	MH	0.81	0.71
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.28	0.25
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.02	1.44
tblVehicleEF	MH	0.35	0.11
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	2.04	1.15
tblVehicleEF	MH	5.06	1.94
tblVehicleEF	MH	1,212.08	1,532.82
tblVehicleEF	MH	58.85	18.36
tblVehicleEF	MH	1.21	1.29
tblVehicleEF	MH	0.76	0.23
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1290e-003	2.7407e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2190e-003	3.2747e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0380e-003	2.5200e-004
tblVehicleEF	MH	1.81	1.59
tblVehicleEF	MH	0.07	0.06
tblVehicleEF	MH	0.59	0.52
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.02	1.40
tblVehicleEF	MH	0.30	0.09
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	6.7700e-004	1.8165e-004
tblVehicleEF	MH	1.81	1.59
tblVehicleEF	MH	0.07	0.06
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tblVehicleEF	MH	0.13	0.09
tblVehicleEF	MH	0.02	1.40
tblVehicleEF	MH	0.33	0.10
tblVehicleEF	MH	0.03	0.01
tblVehicleEF	MH	0.03	0.02
tblVehicleEF	MH	1.89	1.08
tblVehicleEF	MH	6.07	2.30
tblVehicleEF	MH	1,212.08	1,532.69
tblVehicleEF	MH	58.85	18.97
tblVehicleEF	MH	1.33	1.40
tblVehicleEF	MH	0.86	0.26
tblVehicleEF	MH	0.13	0.13
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.1290e-003	2.7407e-004
tblVehicleEF	MH	0.06	0.06
tblVehicleEF	MH	3.2190e-003	3.2747e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.0380e-003	2.5200e-004
tblVehicleEF	MH	0.40	0.36
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.16	0.14
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.02	1.55
tblVehicleEF	MH	0.34	0.10
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	6.9400e-004	1.8771e-004
tblVehicleEF	MH	0.40	0.36
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.16	0.14
tblVehicleEF	MH	0.12	0.09
tblVehicleEF	MH	0.02	1.55
tblVehicleEF	MH	0.37	0.11
tblVehicleEF	MHD	0.02	3.5451e-003
tblVehicleEF	MHD	4.5180e-003	1.9320e-003
tblVehicleEF	MHD	0.05	9.4870e-003
tblVehicleEF	MHD	0.38	0.39
tblVehicleEF	MHD	0.36	0.26
tblVehicleEF	MHD	5.92	1.14
tblVehicleEF	MHD	132.71	73.35
tblVehicleEF	MHD	1,189.79	1,095.06
tblVehicleEF	MHD	61.47	9.38
tblVehicleEF	MHD	0.36	0.43
tblVehicleEF	MHD	1.11	1.44
tblVehicleEF	MHD	10.17	1.70
tblVehicleEF	MHD	1.2300e-004	4.2699e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	3.1090e-003	6.9550e-003
tblVehicleEF	MHD	9.0500e-004	1.1918e-004
tblVehicleEF	MHD	1.1800e-004	4.0851e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003

tblVehicleEF	MHD	2.9680e-003	6.6477e-003
tblVehicleEF	MHD	8.3200e-004	1.0958e-004
tblVehicleEF	MHD	8.9400e-004	4.1676e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	4.6300e-004	2.1069e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.35	0.05
tblVehicleEF	MHD	1.2790e-003	6.9591e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1800e-004	9.2825e-005
tblVehicleEF	MHD	8.9400e-004	4.1676e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	4.6300e-004	2.1069e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.38	0.06
tblVehicleEF	MHD	0.02	3.3400e-003
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tblVehicleEF	MHD	0.04	8.9390e-003
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tblVehicleEF	MHD	0.36	0.27
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tblVehicleEF	MHD	140.74	73.48
tblVehicleEF	MHD	1,189.79	1,095.07
tblVehicleEF	MHD	61.47	9.22
tblVehicleEF	MHD	0.37	0.42
tblVehicleEF	MHD	1.06	1.39

tblVehicleEF	MHD	10.11	1.69
tblVehicleEF	MHD	1.0400e-004	3.6312e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	3.1090e-003	6.9550e-003
tblVehicleEF	MHD	9.0500e-004	1.1918e-004
tblVehicleEF	MHD	9.9000e-005	3.4741e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.9680e-003	6.6477e-003
tblVehicleEF	MHD	8.3200e-004	1.0958e-004
tblVehicleEF	MHD	2.0590e-003	9.6563e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.9800e-004	4.5880e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.33	0.05
tblVehicleEF	MHD	1.3540e-003	6.9720e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.1000e-004	9.1281e-005
tblVehicleEF	MHD	2.0590e-003	9.6563e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	9.9800e-004	4.5880e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.11
tblVehicleEF	MHD	0.36	0.05
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tblVehicleEF	MHD	0.49	0.45
tblVehicleEF	MHD	0.35	0.26
tblVehicleEF	MHD	6.36	1.22
tblVehicleEF	MHD	122.01	73.31
tblVehicleEF	MHD	1,189.79	1,095.06
tblVehicleEF	MHD	61.47	9.52
tblVehicleEF	MHD	0.35	0.44
tblVehicleEF	MHD	1.13	1.47
tblVehicleEF	MHD	10.22	1.70
tblVehicleEF	MHD	1.5000e-004	5.1519e-004
tblVehicleEF	MHD	0.13	0.13
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	3.1090e-003	6.9550e-003
tblVehicleEF	MHD	9.0500e-004	1.1918e-004
tblVehicleEF	MHD	1.4300e-004	4.9290e-004
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.0000e-003	3.0000e-003
tblVehicleEF	MHD	2.9680e-003	6.6477e-003
tblVehicleEF	MHD	8.3200e-004	1.0958e-004
tblVehicleEF	MHD	4.4600e-004	2.0664e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	2.3900e-004	1.0791e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.37	0.05
tblVehicleEF	MHD	1.1780e-003	6.9536e-004
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.2600e-004	9.4215e-005

tblVehicleEF	MHD	4.4600e-004	2.0664e-004
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	0.04	0.03
tblVehicleEF	MHD	2.3900e-004	1.0791e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.13
tblVehicleEF	MHD	0.40	0.06
tblVehicleEF	OBUS	0.01	7.0634e-003
tblVehicleEF	OBUS	6.3660e-003	4.0128e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.24	0.57
tblVehicleEF	OBUS	0.44	0.47
tblVehicleEF	OBUS	5.01	1.90
tblVehicleEF	OBUS	99.56	91.93
tblVehicleEF	OBUS	1,293.67	1,341.74
tblVehicleEF	OBUS	66.88	15.48
tblVehicleEF	OBUS	0.21	0.37
tblVehicleEF	OBUS	0.88	1.44
tblVehicleEF	OBUS	2.72	1.09
tblVehicleEF	OBUS	1.9000e-005	1.2007e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6550e-003	7.0285e-003
tblVehicleEF	OBUS	8.0900e-004	1.4163e-004
tblVehicleEF	OBUS	1.8000e-005	1.1488e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5210e-003	6.7121e-003
tblVehicleEF	OBUS	7.4400e-004	1.3022e-004
tblVehicleEF	OBUS	1.1720e-003	1.0839e-003

tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	5.1500e-004	4.8024e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.03	0.18
tblVehicleEF	OBUS	0.31	0.09
tblVehicleEF	OBUS	9.6200e-004	8.7347e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.5700e-004	1.5317e-004
tblVehicleEF	OBUS	1.1720e-003	1.0839e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	5.1500e-004	4.8024e-004
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.03	0.18
tblVehicleEF	OBUS	0.34	0.10
tblVehicleEF	OBUS	0.01	7.1514e-003
tblVehicleEF	OBUS	6.5330e-003	4.1374e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.24	0.57
tblVehicleEF	OBUS	0.45	0.48
tblVehicleEF	OBUS	4.57	1.73
tblVehicleEF	OBUS	104.50	90.82
tblVehicleEF	OBUS	1,293.67	1,341.76
tblVehicleEF	OBUS	66.88	15.19
tblVehicleEF	OBUS	0.22	0.35
tblVehicleEF	OBUS	0.84	1.38
tblVehicleEF	OBUS	2.67	1.08
tblVehicleEF	OBUS	1.6000e-005	1.0669e-004
tblVehicleEF	OBUS	0.13	0.13

tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6550e-003	7.0285e-003
tblVehicleEF	OBUS	8.0900e-004	1.4163e-004
tblVehicleEF	OBUS	1.6000e-005	1.0208e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5210e-003	6.7121e-003
tblVehicleEF	OBUS	7.4400e-004	1.3022e-004
tblVehicleEF	OBUS	2.6050e-003	2.3810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.05
tblVehicleEF	OBUS	1.0740e-003	9.8276e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.03	0.17
tblVehicleEF	OBUS	0.29	0.08
tblVehicleEF	OBUS	1.0090e-003	8.6303e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.4900e-004	1.5034e-004
tblVehicleEF	OBUS	2.6050e-003	2.3810e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	1.0740e-003	9.8276e-004
tblVehicleEF	OBUS	0.05	0.04
tblVehicleEF	OBUS	0.03	0.17
tblVehicleEF	OBUS	0.32	0.09
tblVehicleEF	OBUS	0.01	6.9549e-003
tblVehicleEF	OBUS	6.2370e-003	3.9163e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.25	0.58
tblVehicleEF	OBUS	0.44	0.46

tblVehicleEF	OBUS	5.41	2.04
tblVehicleEF	OBUS	92.74	93.46
tblVehicleEF	OBUS	1,293.67	1,341.72
tblVehicleEF	OBUS	66.88	15.73
tblVehicleEF	OBUS	0.20	0.39
tblVehicleEF	OBUS	0.90	1.47
tblVehicleEF	OBUS	2.77	1.10
tblVehicleEF	OBUS	2.3000e-005	1.3855e-004
tblVehicleEF	OBUS	0.13	0.13
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	2.6550e-003	7.0285e-003
tblVehicleEF	OBUS	8.0900e-004	1.4163e-004
tblVehicleEF	OBUS	2.2000e-005	1.3255e-004
tblVehicleEF	OBUS	0.06	0.06
tblVehicleEF	OBUS	3.0000e-003	3.0000e-003
tblVehicleEF	OBUS	2.5210e-003	6.7121e-003
tblVehicleEF	OBUS	7.4400e-004	1.3022e-004
tblVehicleEF	OBUS	6.3300e-004	5.9470e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	2.9300e-004	2.7596e-004
tblVehicleEF	OBUS	0.04	0.03
tblVehicleEF	OBUS	0.03	0.19
tblVehicleEF	OBUS	0.33	0.10
tblVehicleEF	OBUS	8.9700e-004	8.8790e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6300e-004	1.5567e-004
tblVehicleEF	OBUS	6.3300e-004	5.9470e-004
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06

tblVehicleEF	OBUS	2.9300e-004	2.7596e-004
tblVehicleEF	OBUS	0.05	0.03
tblVehicleEF	OBUS	0.03	0.19
tblVehicleEF	OBUS	0.36	0.10
tblVehicleEF	SBUS	0.83	0.05
tblVehicleEF	SBUS	0.02	6.3564e-003
tblVehicleEF	SBUS	0.08	4.7835e-003
tblVehicleEF	SBUS	8.17	2.18
tblVehicleEF	SBUS	1.05	0.52
tblVehicleEF	SBUS	9.75	0.70
tblVehicleEF	SBUS	1,109.35	347.39
tblVehicleEF	SBUS	1,051.90	1,060.99
tblVehicleEF	SBUS	56.07	3.98
tblVehicleEF	SBUS	8.47	3.53
tblVehicleEF	SBUS	3.71	4.87
tblVehicleEF	SBUS	12.10	0.81
tblVehicleEF	SBUS	8.0590e-003	3.9045e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.0100e-004	4.5501e-005
tblVehicleEF	SBUS	7.7100e-003	3.7356e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6280e-003	2.7271e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.2900e-004	4.1836e-005
tblVehicleEF	SBUS	3.4510e-003	5.3742e-004
tblVehicleEF	SBUS	0.04	5.2206e-003
tblVehicleEF	SBUS	0.97	0.24
tblVehicleEF	SBUS	1.4880e-003	2.2686e-004

tblVehicleEF	SBUS	0.11	0.09
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	0.48	0.03
tblVehicleEF	SBUS	0.01	3.3058e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.2900e-004	3.9403e-005
tblVehicleEF	SBUS	3.4510e-003	5.3742e-004
tblVehicleEF	SBUS	0.04	5.2206e-003
tblVehicleEF	SBUS	1.40	0.35
tblVehicleEF	SBUS	1.4880e-003	2.2686e-004
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.02	0.04
tblVehicleEF	SBUS	0.53	0.03
tblVehicleEF	SBUS	0.83	0.05
tblVehicleEF	SBUS	0.02	6.4556e-003
tblVehicleEF	SBUS	0.07	4.0213e-003
tblVehicleEF	SBUS	8.07	2.14
tblVehicleEF	SBUS	1.08	0.53
tblVehicleEF	SBUS	7.16	0.51
tblVehicleEF	SBUS	1,158.83	356.82
tblVehicleEF	SBUS	1,051.90	1,061.01
tblVehicleEF	SBUS	56.07	3.67
tblVehicleEF	SBUS	8.74	3.61
tblVehicleEF	SBUS	3.55	4.68
tblVehicleEF	SBUS	12.05	0.81
tblVehicleEF	SBUS	6.7940e-003	3.2991e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.0100e-004	4.5501e-005

tblVehicleEF	SBUS	6.5000e-003	3.1564e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6280e-003	2.7271e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.2900e-004	4.1836e-005
tblVehicleEF	SBUS	7.6490e-003	1.2029e-003
tblVehicleEF	SBUS	0.04	5.4575e-003
tblVehicleEF	SBUS	0.97	0.24
tblVehicleEF	SBUS	3.0940e-003	4.7869e-004
tblVehicleEF	SBUS	0.11	0.09
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.41	0.02
tblVehicleEF	SBUS	0.01	3.3948e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.8500e-004	3.6344e-005
tblVehicleEF	SBUS	7.6490e-003	1.2029e-003
tblVehicleEF	SBUS	0.04	5.4575e-003
tblVehicleEF	SBUS	1.40	0.34
tblVehicleEF	SBUS	3.0940e-003	4.7869e-004
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.01	0.03
tblVehicleEF	SBUS	0.44	0.03
tblVehicleEF	SBUS	0.83	0.05
tblVehicleEF	SBUS	0.02	6.2767e-003
tblVehicleEF	SBUS	0.09	5.4684e-003
tblVehicleEF	SBUS	8.32	2.23
tblVehicleEF	SBUS	1.03	0.51
tblVehicleEF	SBUS	12.35	0.89
tblVehicleEF	SBUS	1,041.03	334.38
tblVehicleEF	SBUS	1,051.90	1,060.98

tblVehicleEF	SBUS	56.07	4.29
tblVehicleEF	SBUS	8.10	3.41
tblVehicleEF	SBUS	3.78	4.96
tblVehicleEF	SBUS	12.14	0.81
tblVehicleEF	SBUS	9.8060e-003	4.7406e-003
tblVehicleEF	SBUS	0.74	0.74
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	9.0100e-004	4.5501e-005
tblVehicleEF	SBUS	9.3820e-003	4.5355e-003
tblVehicleEF	SBUS	0.32	0.32
tblVehicleEF	SBUS	2.6280e-003	2.7271e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	8.2900e-004	4.1836e-005
tblVehicleEF	SBUS	1.8830e-003	2.8902e-004
tblVehicleEF	SBUS	0.04	5.3218e-003
tblVehicleEF	SBUS	0.98	0.24
tblVehicleEF	SBUS	8.5400e-004	1.2934e-004
tblVehicleEF	SBUS	0.11	0.09
tblVehicleEF	SBUS	0.02	0.05
tblVehicleEF	SBUS	0.55	0.03
tblVehicleEF	SBUS	0.01	3.1828e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.7200e-004	4.2468e-005
tblVehicleEF	SBUS	1.8830e-003	2.8902e-004
tblVehicleEF	SBUS	0.04	5.3218e-003
tblVehicleEF	SBUS	1.41	0.35
tblVehicleEF	SBUS	8.5400e-004	1.2934e-004
tblVehicleEF	SBUS	0.14	0.10
tblVehicleEF	SBUS	0.02	0.05

tblVehicleEF	SBUS	0.60	0.03
tblVehicleEF	UBUS	0.27	1.35
tblVehicleEF	UBUS	0.04	1.4174e-003
tblVehicleEF	UBUS	4.81	10.12
tblVehicleEF	UBUS	7.98	0.14
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.39
tblVehicleEF	UBUS	9.47	0.73
tblVehicleEF	UBUS	14.57	0.01
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	2.2820e-003	1.9372e-005
tblVehicleEF	UBUS	0.04	1.3321e-004
tblVehicleEF	UBUS	1.1230e-003	7.8236e-006
tblVehicleEF	UBUS	0.58	0.02
tblVehicleEF	UBUS	8.3050e-003	5.9168e-004
tblVehicleEF	UBUS	0.58	5.8827e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.1810e-003	1.3764e-005
tblVehicleEF	UBUS	2.2820e-003	1.9372e-005
tblVehicleEF	UBUS	0.04	1.3321e-004
tblVehicleEF	UBUS	1.1230e-003	7.8236e-006
tblVehicleEF	UBUS	0.90	1.38
tblVehicleEF	UBUS	8.3050e-003	5.9168e-004

tblVehicleEF	UBUS	0.63	6.4408e-003
tblVehicleEF	UBUS	0.27	1.35
tblVehicleEF	UBUS	0.04	1.2560e-003
tblVehicleEF	UBUS	4.86	10.12
tblVehicleEF	UBUS	6.37	0.11
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.35
tblVehicleEF	UBUS	9.09	0.73
tblVehicleEF	UBUS	14.51	9.3546e-003
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	5.3820e-003	5.1276e-005
tblVehicleEF	UBUS	0.04	2.1346e-004
tblVehicleEF	UBUS	2.5900e-003	2.5977e-005
tblVehicleEF	UBUS	0.59	0.02
tblVehicleEF	UBUS	7.6100e-003	5.3006e-004
tblVehicleEF	UBUS	0.50	5.2053e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.1530e-003	1.3334e-005
tblVehicleEF	UBUS	5.3820e-003	5.1276e-005
tblVehicleEF	UBUS	0.04	2.1346e-004
tblVehicleEF	UBUS	2.5900e-003	2.5977e-005
tblVehicleEF	UBUS	0.91	1.38
tblVehicleEF	UBUS	7.6100e-003	5.3006e-004

tblVehicleEF	UBUS	0.55	5.6991e-003
tblVehicleEF	UBUS	0.26	1.35
tblVehicleEF	UBUS	0.05	1.5528e-003
tblVehicleEF	UBUS	4.77	10.12
tblVehicleEF	UBUS	9.51	0.16
tblVehicleEF	UBUS	2,067.88	1,597.13
tblVehicleEF	UBUS	103.85	1.43
tblVehicleEF	UBUS	9.63	0.73
tblVehicleEF	UBUS	14.62	0.01
tblVehicleEF	UBUS	0.59	0.07
tblVehicleEF	UBUS	0.01	0.03
tblVehicleEF	UBUS	0.21	5.3281e-003
tblVehicleEF	UBUS	1.1460e-003	1.5176e-005
tblVehicleEF	UBUS	0.25	0.03
tblVehicleEF	UBUS	3.0000e-003	8.3315e-003
tblVehicleEF	UBUS	0.20	5.0960e-003
tblVehicleEF	UBUS	1.0540e-003	1.3953e-005
tblVehicleEF	UBUS	1.2210e-003	9.0550e-006
tblVehicleEF	UBUS	0.05	1.6004e-004
tblVehicleEF	UBUS	5.9400e-004	3.0537e-006
tblVehicleEF	UBUS	0.58	0.02
tblVehicleEF	UBUS	0.01	7.5546e-004
tblVehicleEF	UBUS	0.64	6.4543e-003
tblVehicleEF	UBUS	0.02	0.01
tblVehicleEF	UBUS	1.2070e-003	1.4156e-005
tblVehicleEF	UBUS	1.2210e-003	9.0550e-006
tblVehicleEF	UBUS	0.05	1.6004e-004
tblVehicleEF	UBUS	5.9400e-004	3.0537e-006
tblVehicleEF	UBUS	0.89	1.38
tblVehicleEF	UBUS	0.01	7.5546e-004

tblVehicleEF	UBUS	0.70	7.0667e-003
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	6.39	4.52
tblVehicleTrips	SU_TR	5.86	4.52
tblVehicleTrips	WD_TR	6.65	4.52

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1071	1.2079	1.0148	2.8800e-003	0.0912	0.0426	0.1338	0.0275	0.0395	0.0670	0.0000	263.5093	263.5093	0.0406	0.0000	264.5246
2023	0.5340	0.6286	0.7660	1.6100e-003	0.0495	0.0287	0.0782	0.0133	0.0267	0.0399	0.0000	143.7239	143.7239	0.0273	0.0000	144.4053
Maximum	**0.5340**	**1.2079**	**1.0148**	**2.8800e-003**	**0.0912**	**0.0426**	**0.1338**	**0.0275**	**0.0395**	**0.0670**	**0.0000**	**263.5093**	**263.5093**	**0.0406**	**0.0000**	**264.5246**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1071	1.2079	1.0148	2.8800e-003	0.0741	0.0426	0.1167	0.0213	0.0395	0.0608	0.0000	263.5092	263.5092	0.0406	0.0000	264.5244

2023	0.5340	0.6286	0.7660	1.6100e-003	0.0470	0.0287	0.0757	0.0127	0.0267	0.0393	0.0000	143.7238	143.7238	0.0273	0.0000	144.4052
Maximum	**0.5340**	**1.2079**	**1.0148**	**2.8800e-003**	**0.0741**	**0.0426**	**0.1167**	**0.0213**	**0.0395**	**0.0608**	**0.0000**	**263.5092**	**263.5092**	**0.0406**	**0.0000**	**264.5244**

	ROG	NOx	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**	**13.95**	**0.00**	**9.26**	**16.54**	**0.00**	**6.32**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**2-1-2022**	**4-30-2022**	0.5004	0.5004
2	**5-1-2022**	**7-31-2022**	0.3145	0.3145
3	**8-1-2022**	**10-31-2022**	0.2964	0.2964
4	**11-1-2022**	**1-31-2023**	0.2871	0.2871
5	**2-1-2023**	**4-30-2023**	0.3118	0.3118
6	**5-1-2023**	**7-31-2023**	0.6210	0.6210
7	**8-1-2023**	**9-30-2023**	0.1313	0.1313
		Highest	0.6210	0.6210

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5125	0.0117	0.8908	5.6000e-004		0.0416	0.0416		0.0416	0.0416	3.8295	2.5920	6.4215	7.1300e-003	2.5000e-004	6.6747
Energy	3.9100e-003	0.0334	0.0142	2.1000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	154.0998	154.0998	5.9600e-003	1.7900e-003	154.7820
Mobile	0.1390	0.2243	1.1996	3.5600e-003	0.3664	2.6800e-003	0.3691	0.0979	2.5000e-003	0.1004	0.0000	330.3796	330.3796	0.0148	0.0000	330.7496
Waste						0.0000	0.0000		0.0000	0.0000	7.8436	0.0000	7.8436	0.4635	0.0000	19.4321
Water						0.0000	0.0000		0.0000	0.0000	1.7363	12.1282	13.8645	0.1789	4.3200e-003	19.6252

Total	**0.6555**	**0.2694**	**2.1046**	**4.3300e-003**	**0.3664**	**0.0470**	**0.4134**	**0.0979**	**0.0468**	**0.1448**	**13.4094**	**499.1996**	**512.6090**	**0.6703**	**6.3600e-003**	**531.2637**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3187	7.1900e-003	0.6239	3.0000e-005		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	1.0190	1.0190	9.8000e-004	0.0000	1.0435
Energy	3.9100e-003	0.0334	0.0142	2.1000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	154.0998	154.0998	5.9600e-003	1.7900e-003	154.7820
Mobile	0.1390	0.2243	1.1996	3.5600e-003	0.3664	2.6800e-003	0.3691	0.0979	2.5000e-003	0.1004	0.0000	330.3796	330.3796	0.0148	0.0000	330.7496
Waste						0.0000	0.0000		0.0000	0.0000	3.9218	0.0000	3.9218	0.2318	0.0000	9.7161
Water						0.0000	0.0000		0.0000	0.0000	1.3891	10.1909	11.5799	0.1431	3.4600e-003	16.1904
Total	**0.4617**	**0.2649**	**1.8377**	**3.8000e-003**	**0.3664**	**8.8300e-003**	**0.3752**	**0.0979**	**8.6500e-003**	**0.1066**	**5.3108**	**495.6893**	**501.0001**	**0.3966**	**5.2500e-003**	**512.4816**

	ROG	NOx	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	**29.57**	**1.66**	**12.68**	**12.24**	**0.00**	**81.21**	**9.23**	**0.00**	**81.52**	**26.36**	**60.39**	**0.70**	**2.26**	**40.83**	**17.45**	**3.54**

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	2/1/2022	1/31/2022	5	0	
2	Site Preparation	Site Preparation	2/1/2022	3/14/2022	5	30	
3	Grading	Grading	3/15/2022	5/9/2022	5	40	
4	Paving	Paving	5/10/2022	6/13/2022	5	25	

5	Building Construction	Building Construction	6/13/2022	8/4/2023	5	300	
6	Architectural Coating	Architectural Coating	4/17/2023	8/31/2023	5	99	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.2

Residential Indoor: 131,431; Residential Outdoor: 43,810; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	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	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,541.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	64.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

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

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.9500e-003	0.0000	7.9500e-003	8.6000e-004	0.0000	8.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-003	0.1040	0.0594	1.5000e-004		3.8600e-003	3.8600e-003		3.5500e-003	3.5500e-003	0.0000	12.8256	12.8256	4.1500e-003	0.0000	12.9293
Total	**8.7000e-003**	**0.1040**	**0.0594**	**1.5000e-004**	**7.9500e-003**	**3.8600e-003**	**0.0118**	**8.6000e-004**	**3.5500e-003**	**4.4100e-003**	**0.0000**	**12.8256**	**12.8256**	**4.1500e-003**	**0.0000**	**12.9293**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.4000e-004	1.5800e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4745	0.4745	1.0000e-005	0.0000	0.4748

Total	**2.2000e-004**	**1.4000e-004**	**1.5800e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**6.0000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4745**	**0.4745**	**1.0000e-005**	**0.0000**	**0.4748**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.4000e-003	0.0000	3.4000e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-003	0.1040	0.0594	1.5000e-004		3.8600e-003	3.8600e-003		3.5500e-003	3.5500e-003	0.0000	12.8256	12.8256	4.1500e-003	0.0000	12.9293
Total	**8.7000e-003**	**0.1040**	**0.0594**	**1.5000e-004**	**3.4000e-003**	**3.8600e-003**	**7.2600e-003**	**3.7000e-004**	**3.5500e-003**	**3.9200e-003**	**0.0000**	**12.8256**	**12.8256**	**4.1500e-003**	**0.0000**	**12.9293**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.4000e-004	1.5800e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4745	0.4745	1.0000e-005	0.0000	0.4748
Total	**2.2000e-004**	**1.4000e-004**	**1.5800e-003**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**5.7000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.4745**	**0.4745**	**1.0000e-005**	**0.0000**	**0.4748**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0162	0.0000	0.0162	8.4500e-003	0.0000	8.4500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0142	0.1283	0.1494	2.4000e-004		6.7500e-003	6.7500e-003		6.4500e-003	6.4500e-003	0.0000	20.8272	20.8272	3.8400e-003	0.0000	20.9233
Total	**0.0142**	**0.1283**	**0.1494**	**2.4000e-004**	**0.0162**	**6.7500e-003**	**0.0230**	**8.4500e-003**	**6.4500e-003**	**0.0149**	**0.0000**	**20.8272**	**20.8272**	**3.8400e-003**	**0.0000**	**20.9233**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.3900e-003	0.3120	0.0728	9.7000e-004	0.0215	9.1000e-004	0.0225	5.9200e-003	8.7000e-004	6.7900e-003	0.0000	94.3830	94.3830	4.2400e-003	0.0000	94.4891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	3.8000e-004	4.2100e-003	1.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2654	1.2654	3.0000e-005	0.0000	1.2661
Total	**9.9700e-003**	**0.3124**	**0.0770**	**9.8000e-004**	**0.0231**	**9.2000e-004**	**0.0241**	**6.3400e-003**	**8.8000e-004**	**7.2200e-003**	**0.0000**	**95.6484**	**95.6484**	**4.2700e-003**	**0.0000**	**95.7552**

Mitigated Construction On-Site

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

Fugitive Dust					6.9300e-003	0.0000	6.9300e-003	3.6100e-003	0.0000	3.6100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0142	0.1283	0.1494	2.4000e-004		6.7500e-003	6.7500e-003		6.4500e-003	6.4500e-003	0.0000	20.8272	20.8272	3.8400e-003	0.0000	20.9233
Total	**0.0142**	**0.1283**	**0.1494**	**2.4000e-004**	**6.9300e-003**	**6.7500e-003**	**0.0137**	**3.6100e-003**	**6.4500e-003**	**0.0101**	**0.0000**	**20.8272**	**20.8272**	**3.8400e-003**	**0.0000**	**20.9233**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.3900e-003	0.3120	0.0728	9.7000e-004	0.0206	9.1000e-004	0.0215	5.6900e-003	8.7000e-004	6.5600e-003	0.0000	94.3830	94.3830	4.2400e-003	0.0000	94.4891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	3.8000e-004	4.2100e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.2654	1.2654	3.0000e-005	0.0000	1.2661
Total	**9.9700e-003**	**0.3124**	**0.0770**	**9.8000e-004**	**0.0221**	**9.2000e-004**	**0.0230**	**6.0900e-003**	**8.8000e-004**	**6.9700e-003**	**0.0000**	**95.6484**	**95.6484**	**4.2700e-003**	**0.0000**	**95.7552**

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0900e-003	0.0740	0.0879	1.4000e-004		3.7000e-003	3.7000e-003		3.4500e-003	3.4500e-003	0.0000	11.7461	11.7461	3.4200e-003	0.0000	11.8316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0900e-003**	**0.0740**	**0.0879**	**1.4000e-004**		**3.7000e-003**	**3.7000e-003**		**3.4500e-003**	**3.4500e-003**	**0.0000**	**11.7461**	**11.7461**	**3.4200e-003**	**0.0000**	**11.8316**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.3000e-004	4.7300e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4236	1.4236	3.0000e-005	0.0000	1.4243
Total	**6.5000e-004**	**4.3000e-004**	**4.7300e-003**	**2.0000e-005**	**1.7800e-003**	**1.0000e-005**	**1.8000e-003**	**4.7000e-004**	**1.0000e-005**	**4.8000e-004**	**0.0000**	**1.4236**	**1.4236**	**3.0000e-005**	**0.0000**	**1.4243**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0900e-003	0.0740	0.0879	1.4000e-004		3.7000e-003	3.7000e-003		3.4500e-003	3.4500e-003	0.0000	11.7460	11.7460	3.4200e-003	0.0000	11.8316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.0900e-003**	**0.0740**	**0.0879**	**1.4000e-004**		**3.7000e-003**	**3.7000e-003**		**3.4500e-003**	**3.4500e-003**	**0.0000**	**11.7460**	**11.7460**	**3.4200e-003**	**0.0000**	**11.8316**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	4.3000e-004	4.7300e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.4236	1.4236	3.0000e-005	0.0000	1.4243
Total	**6.5000e-004**	**4.3000e-004**	**4.7300e-003**	**2.0000e-005**	**1.6900e-003**	**1.0000e-005**	**1.7000e-003**	**4.5000e-004**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**1.4236**	**1.4236**	**3.0000e-005**	**0.0000**	**1.4243**

3.6 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	tons/yr										MT/yr					
Off-Road	0.0498	0.5094	0.5186	8.3000e-004		0.0270	0.0270		0.0248	0.0248	0.0000	72.6071	72.6071	0.0235	0.0000	73.1941
Total	**0.0498**	**0.5094**	**0.5186**	**8.3000e-004**		**0.0270**	**0.0270**		**0.0248**	**0.0248**	**0.0000**	**72.6071**	**72.6071**	**0.0235**	**0.0000**	**73.1941**

Unmitigated Construction Off-Site

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

Vendor	2.2100e-003	0.0704	0.0187	1.9000e-004	4.7700e-003	1.4000e-004	4.9100e-003	1.3800e-003	1.4000e-004	1.5200e-003	0.0000	18.6000	18.6000	7.8000e-004	0.0000	18.6195
Worker	0.0133	8.8800e-003	0.0976	3.2000e-004	0.0368	2.3000e-004	0.0370	9.7900e-003	2.1000e-004	0.0100	0.0000	29.3570	29.3570	6.2000e-004	0.0000	29.3725
Total	**0.0156**	**0.0793**	**0.1162**	**5.1000e-004**	**0.0416**	**3.7000e-004**	**0.0419**	**0.0112**	**3.5000e-004**	**0.0115**	**0.0000**	**47.9570**	**47.9570**	**1.4000e-003**	**0.0000**	**47.9920**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0498	0.5094	0.5186	8.3000e-004		0.0270	0.0270		0.0248	0.0248	0.0000	72.6070	72.6070	0.0235	0.0000	73.1941
Total	**0.0498**	**0.5094**	**0.5186**	**8.3000e-004**		**0.0270**	**0.0270**		**0.0248**	**0.0248**	**0.0000**	**72.6070**	**72.6070**	**0.0235**	**0.0000**	**73.1941**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2100e-003	0.0704	0.0187	1.9000e-004	4.5700e-003	1.4000e-004	4.7100e-003	1.3300e-003	1.4000e-004	1.4700e-003	0.0000	18.6000	18.6000	7.8000e-004	0.0000	18.6195
Worker	0.0133	8.8800e-003	0.0976	3.2000e-004	0.0349	2.3000e-004	0.0351	9.3200e-003	2.1000e-004	9.5300e-003	0.0000	29.3570	29.3570	6.2000e-004	0.0000	29.3725
Total	**0.0156**	**0.0793**	**0.1162**	**5.1000e-004**	**0.0395**	**3.7000e-004**	**0.0398**	**0.0107**	**3.5000e-004**	**0.0110**	**0.0000**	**47.9570**	**47.9570**	**1.4000e-003**	**0.0000**	**47.9920**

3.6 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0490	0.4974	0.5500	8.8000e-004		0.0248	0.0248		0.0228	0.0228	0.0000	77.6615	77.6615	0.0251	0.0000	78.2895
Total	**0.0490**	**0.4974**	**0.5500**	**8.8000e-004**		**0.0248**	**0.0248**		**0.0228**	**0.0228**	**0.0000**	**77.6615**	**77.6615**	**0.0251**	**0.0000**	**78.2895**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7800e-003	0.0571	0.0179	2.0000e-004	5.1000e-003	7.0000e-005	5.1700e-003	1.4700e-003	6.0000e-005	1.5400e-003	0.0000	19.3174	19.3174	7.1000e-004	0.0000	19.3352
Worker	0.0134	8.5400e-003	0.0960	3.3000e-004	0.0393	2.4000e-004	0.0396	0.0105	2.2000e-004	0.0107	0.0000	30.1896	30.1896	6.0000e-004	0.0000	30.2045
Total	**0.0151**	**0.0656**	**0.1139**	**5.3000e-004**	**0.0444**	**3.1000e-004**	**0.0448**	**0.0119**	**2.8000e-004**	**0.0122**	**0.0000**	**49.5070**	**49.5070**	**1.3100e-003**	**0.0000**	**49.5397**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0490	0.4974	0.5500	8.8000e-004		0.0248	0.0248		0.0228	0.0228	0.0000	77.6614	77.6614	0.0251	0.0000	78.2894
Total	**0.0490**	**0.4974**	**0.5500**	**8.8000e-004**		**0.0248**	**0.0248**		**0.0228**	**0.0228**	**0.0000**	**77.6614**	**77.6614**	**0.0251**	**0.0000**	**78.2894**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7800e-003	0.0571	0.0179	2.0000e-004	4.8800e-003	7.0000e-005	4.9500e-003	1.4200e-003	6.0000e-005	1.4900e-003	0.0000	19.3174	19.3174	7.1000e-004	0.0000	19.3352
Worker	0.0134	8.5400e-003	0.0960	3.3000e-004	0.0373	2.4000e-004	0.0375	9.9600e-003	2.2000e-004	0.0102	0.0000	30.1896	30.1896	6.0000e-004	0.0000	30.2045
Total	**0.0151**	**0.0656**	**0.1139**	**5.3000e-004**	**0.0422**	**3.1000e-004**	**0.0425**	**0.0114**	**2.8000e-004**	**0.0117**	**0.0000**	**49.5070**	**49.5070**	**1.3100e-003**	**0.0000**	**49.5397**

3.7 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	tons/yr										MT/yr					
Archit. Coating	0.4587					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	9.4900e-003	0.0645	0.0897	1.5000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	12.6386	12.6386	7.6000e-004	0.0000	12.6575
Total	**0.4682**	**0.0645**	**0.0897**	**1.5000e-004**		**3.5100e-003**	**3.5100e-003**		**3.5100e-003**	**3.5100e-003**	**0.0000**	**12.6386**	**12.6386**	**7.6000e-004**	**0.0000**	**12.6575**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7300e-003	1.1100e-003	0.0125	4.0000e-005	5.1000e-003	3.0000e-005	5.1300e-003	1.3600e-003	3.0000e-005	1.3900e-003	0.0000	3.9167	3.9167	8.0000e-005	0.0000	3.9187
Total	**1.7300e-003**	**1.1100e-003**	**0.0125**	**4.0000e-005**	**5.1000e-003**	**3.0000e-005**	**5.1300e-003**	**1.3600e-003**	**3.0000e-005**	**1.3900e-003**	**0.0000**	**3.9167**	**3.9167**	**8.0000e-005**	**0.0000**	**3.9187**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4587					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.4900e-003	0.0645	0.0897	1.5000e-004		3.5100e-003	3.5100e-003		3.5100e-003	3.5100e-003	0.0000	12.6386	12.6386	7.6000e-004	0.0000	12.6575
Total	**0.4682**	**0.0645**	**0.0897**	**1.5000e-004**		**3.5100e-003**	**3.5100e-003**		**3.5100e-003**	**3.5100e-003**	**0.0000**	**12.6386**	**12.6386**	**7.6000e-004**	**0.0000**	**12.6575**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7300e-003	1.1100e-003	0.0125	4.0000e-005	4.8400e-003	3.0000e-005	4.8700e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	3.9167	3.9167	8.0000e-005	0.0000	3.9187
Total	**1.7300e-003**	**1.1100e-003**	**0.0125**	**4.0000e-005**	**4.8400e-003**	**3.0000e-005**	**4.8700e-003**	**1.2900e-003**	**3.0000e-005**	**1.3200e-003**	**0.0000**	**3.9167**	**3.9167**	**8.0000e-005**	**0.0000**	**3.9187**

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	tons/yr										MT/yr					
Mitigated	0.1390	0.2243	1.1996	3.5600e-003	0.3664	2.6800e-003	0.3691	0.0979	2.5000e-003	0.1004	0.0000	330.3796	330.3796	0.0148	0.0000	330.7496
Unmitigated	0.1390	0.2243	1.1996	3.5600e-003	0.3664	2.6800e-003	0.3691	0.0979	2.5000e-003	0.1004	0.0000	330.3796	330.3796	0.0148	0.0000	330.7496

4.2 Trip Summary Information

	Average Daily Trip Rate		Unmitigated	Mitigated

Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	379.68	379.68	379.68	987,602	987,602
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	379.68	379.68	379.68	987,602	987,602

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-...	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	100	0	0
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720
Enclosed Parking with Elevator	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.3730	115.3730	5.2200e-003	1.0800e-003	115.8251
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.3730	115.3730	5.2200e-003	1.0800e-003	115.8251
NaturalGas Mitigated	3.9100e-003	0.0334	0.0142	2.1000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	38.7269	38.7269	7.4000e-004	7.1000e-004	38.9570

NaturalGas Unmitigated	3.9100e-003	0.0334	0.0142	2.1000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	38.7269	38.7269	7.4000e-004	7.1000e-004	38.9570

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	725714	3.9100e-003	0.0334	0.0142	2.1000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	38.7269	38.7269	7.4000e-004	7.1000e-004	38.9570
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.9100e-003**	**0.0334**	**0.0142**	**2.1000e-004**		**2.7000e-003**	**2.7000e-003**		**2.7000e-003**	**2.7000e-003**	**0.0000**	**38.7269**	**38.7269**	**7.4000e-004**	**7.1000e-004**	**38.9570**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	725714	3.9100e-003	0.0334	0.0142	2.1000e-004		2.7000e-003	2.7000e-003		2.7000e-003	2.7000e-003	0.0000	38.7269	38.7269	7.4000e-004	7.1000e-004	38.9570
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.9100e-003**	**0.0334**	**0.0142**	**2.1000e-004**		**2.7000e-003**	**2.7000e-003**		**2.7000e-003**	**2.7000e-003**	**0.0000**	**38.7269**	**38.7269**	**7.4000e-004**	**7.1000e-004**	**38.9570**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	346781	100.8827	4.5600e-003	9.4000e-004	101.2780
Enclosed Parking with Elevator	49810	14.4903	6.6000e-004	1.4000e-004	14.5471
Total		**115.3730**	**5.2200e-003**	**1.0800e-003**	**115.8251**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	346781	100.8827	4.5600e-003	9.4000e-004	101.2780
Enclosed Parking with Elevator	49810	14.4903	6.6000e-004	1.4000e-004	14.5471
Total		**115.3730**	**5.2200e-003**	**1.0800e-003**	**115.8251**

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3187	7.1900e-003	0.6239	3.0000e-005		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	1.0190	1.0190	9.8000e-004	0.0000	1.0435
Unmitigated	0.5125	0.0117	0.8908	5.6000e-004		0.0416	0.0416		0.0416	0.0416	3.8295	2.5920	6.4215	7.1300e-003	2.5000e-004	6.6747

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0459					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2540					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1938	4.4600e-003	0.2669	5.3000e-004		0.0382	0.0382		0.0382	0.0382	3.8295	1.5730	5.4025	6.1500e-003	2.5000e-004	5.6312
Landscaping	0.0188	7.1900e-003	0.6239	3.0000e-005		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	1.0190	1.0190	9.8000e-004	0.0000	1.0435
Total	**0.5125**	**0.0117**	**0.8908**	**5.6000e-004**		**0.0416**	**0.0416**		**0.0416**	**0.0416**	**3.8295**	**2.5920**	**6.4215**	**7.1300e-003**	**2.5000e-004**	**6.6747**

Mitigated

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

Architectural Coating	0.0459					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2540					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0188	7.1900e-003	0.6239	3.0000e-005		3.4500e-003	3.4500e-003		3.4500e-003	3.4500e-003	0.0000	1.0190	1.0190	9.8000e-004	0.0000	1.0435
Total	**0.3187**	**7.1900e-003**	**0.6239**	**3.0000e-005**		**3.4500e-003**	**3.4500e-003**		**3.4500e-003**	**3.4500e-003**	**0.0000**	**1.0190**	**1.0190**	**9.8000e-004**	**0.0000**	**1.0435**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.5799	0.1431	3.4600e-003	16.1904
Unmitigated	13.8645	0.1789	4.3200e-003	19.6252

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.47294 / 3.45033	13.8645	0.1789	4.3200e-003	19.6252
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**13.8645**	**0.1789**	**4.3200e-003**	**19.6252**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.37835 / 3.23986	11.5799	0.1431	3.4600e-003	16.1904
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**11.5799**	**0.1431**	**3.4600e-003**	**16.1904**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.9218	0.2318	0.0000	9.7161
Unmitigated	7.8436	0.4635	0.0000	19.4321

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	38.64	7.8436	0.4635	0.0000	19.4321
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**7.8436**	**0.4635**	**0.0000**	**19.4321**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	19.32	3.9218	0.2318	0.0000	9.7161

Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		**3.9218**	**0.2318**	**0.0000**	**9.7161**

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

551 Keyes Street

Construction

$PM_{2.5}$ On-Site Exhaust

		Mitigated		Unmitigated	
Year	**Construction Phase**	**Tons/Year**	**g/s**	**Tons/Year**	**g/s**
2022	Demolition	0.0000	0.00E+00	0.000	0.00E+00
2022	Site Preparation	0.0036	1.02E-04	0.0036	1.02E-04
2022	Grading	0.0065	1.86E-04	0.0065	1.86E-04
2022	Paving	0.0035	9.92E-05	0.0035	9.92E-05
2022	Building Construction	0.0248	7.13E-04	0.0248	7.13E-04
2023	Building Construction	0.0228	6.56E-04	0.0228	6.56E-04
2023	Arch. Coating	0.0035	1.01E-04	0.0035	1.01E-04
		max:	7.13E-04	max:	7.13E-04
		0.06		0.06	

Conversions:

1 ton = 907184.7 grams

1 year = 3.15E+07 seconds

County Population: 1,938,000 Santa Clara County

See 70 FR 68218, November 9, 2005

	µg/m³		
	1 hr	24 hr	Annual
Unmitigated Concentration from AERSCREEN	1.15E-01	6.88E-02	1.15E-02

HARP 2 Risk Summary

Unmitigated (V2)

INDEX	**POLID**			**Cancer**		**Per 1 million**	**Chronic**	**Acute**	
				CONC	**INH_RISK**		**RESP**	**CONC**	**RESP**
1		9901	Diesel ExhPM	1.15E-02	4.38E-06	4.38	2.30E-03	1.15E-01	0.00E+00
2		107028	Acrolein					1.15E-01	4.59E-02

AERSCREEN 16216 / AERMOD 19191 12/06/20
15:06:04

TITLE: 551 KEYES

********** VOLUME PARAMETERS **********

SOURCE EMISSION RATE:	0.713E-03	g/s	0.566E-02	lb/hr
VOLUME HEIGHT:	5.00	meters	16.40	feet
INITIAL LATERAL DIMENSION:	39.53	meters	129.69	feet
INITIAL VERTICAL DIMENSION:	1.00	meters	3.28	feet
RURAL OR URBAN:	URBAN			
POPULATION:	1938000			

INITIAL PROBE DISTANCE = 5000. meters 16404. feet

********** BUILDING DOWNWASH PARAMETERS **********

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

********** PROBE ANALYSIS **********

25 meter receptor spacing: 44. meters - 5000. meters

SECTOR	Zo ROUGHNESS LENGTH	1-HR CONC (ug/m3)	DIST (m)	TEMPORAL PERIOD
1*	1.000	0.8893E-01	100.0	ANN

* = worst case flow sector

********** MAKEMET METEOROLOGY PARAMETERS **********

MIN/MAX TEMPERATURE: 278.0 / 298.0 (K)

MINIMUM WIND SPEED: 1.3 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: USER ENTERED

ALBEDO: 0.21
BOWEN RATIO: 1.63
ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR	MO	DY	JDY	HR
10	01	04	4	01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS
-11.45	0.130	-9.000	0.020	-999.	108.	17.7	1.000	1.63	0.21	1.50

HT	REF TA	HT
10.0	298.0	2.0

METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR	MO	DY	JDY	HR
10	01	04	4	01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS
-11.45	0.130	-9.000	0.020	-999.	108.	17.7	1.000	1.63	0.21	1.50

HT	REF TA	HT
10.0	298.0	2.0

****
********** AERSCREEN AUTOMATED DISTANCES **********
OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
44.00	0.000	2525.00	0.8211E-03
50.00	0.000	2550.00	0.8120E-03
75.00	0.000	2575.00	0.8032E-03
100.00	0.8893E-01	2600.00	0.7947E-03
125.00	0.6099E-01	2625.00	0.7864E-03
150.00	0.4481E-01	2650.00	0.7784E-03
175.00	0.3454E-01	2675.00	0.7706E-03
200.00	0.2904E-01	2700.00	0.7630E-03
225.00	0.2547E-01	2725.00	0.7557E-03
250.00	0.2251E-01	2750.00	0.7485E-03
275.00	0.2005E-01	2775.00	0.7415E-03
300.00	0.1798E-01	2800.00	0.7348E-03
325.00	0.1622E-01	2825.00	0.7282E-03
350.00	0.1471E-01	2850.00	0.7218E-03
375.00	0.1340E-01	2875.00	0.7155E-03
400.00	0.1225E-01	2900.00	0.7094E-03
425.00	0.1125E-01	2925.00	0.7035E-03
450.00	0.1037E-01	2950.00	0.6977E-03
475.00	0.9588E-02	2975.00	0.6921E-03
500.00	0.8893E-02	3000.00	0.6866E-03
525.00	0.8272E-02	3025.00	0.6812E-03
550.00	0.7714E-02	3050.00	0.6760E-03
575.00	0.7210E-02	3075.00	0.6709E-03
600.00	0.6754E-02	3100.00	0.6659E-03
625.00	0.6339E-02	3125.00	0.6610E-03
650.00	0.5960E-02	3150.00	0.6562E-03
675.00	0.5615E-02	3175.00	0.6516E-03
700.00	0.5298E-02	3200.00	0.6470E-03
725.00	0.5007E-02	3225.00	0.6425E-03
750.00	0.4739E-02	3250.00	0.6382E-03
775.00	0.4492E-02	3275.00	0.6339E-03
800.00	0.4263E-02	3300.00	0.6297E-03
825.00	0.4051E-02	3325.00	0.6256E-03
850.00	0.3853E-02	3350.00	0.6216E-03
875.00	0.3670E-02	3375.00	0.6177E-03
900.00	0.3499E-02	3400.00	0.6138E-03
925.00	0.3347E-02	3425.00	0.6100E-03
950.00	0.3221E-02	3450.00	0.6063E-03
975.00	0.3102E-02	3475.00	0.6026E-03
1000.00	0.2990E-02	3500.00	0.5990E-03
1025.00	0.2885E-02	3525.00	0.5955E-03

1050.00	0.2786E-02	3550.00	0.5920E-03
1075.00	0.2692E-02	3575.00	0.5886E-03
1100.00	0.2604E-02	3600.00	0.5853E-03
1125.00	0.2520E-02	3625.00	0.5820E-03
1150.00	0.2440E-02	3650.00	0.5788E-03
1175.00	0.2365E-02	3675.00	0.5756E-03
1200.00	0.2293E-02	3700.00	0.5725E-03
1225.00	0.2225E-02	3725.00	0.5694E-03
1250.00	0.2160E-02	3750.00	0.5664E-03
1275.00	0.2098E-02	3775.00	0.5634E-03
1300.00	0.2040E-02	3800.00	0.5604E-03
1325.00	0.1984E-02	3825.00	0.5575E-03
1350.00	0.1930E-02	3850.00	0.5547E-03
1375.00	0.1879E-02	3875.00	0.5519E-03
1400.00	0.1830E-02	3900.00	0.5491E-03
1425.00	0.1783E-02	3925.00	0.5463E-03
1450.00	0.1738E-02	3950.00	0.5436E-03
1475.00	0.1695E-02	3975.00	0.5410E-03
1500.00	0.1654E-02	4000.00	0.5383E-03
1525.00	0.1615E-02	4025.00	0.5358E-03
1550.00	0.1577E-02	4050.00	0.5332E-03
1575.00	0.1541E-02	4075.00	0.5307E-03
1600.00	0.1506E-02	4100.00	0.5282E-03
1625.00	0.1473E-02	4125.00	0.5257E-03
1650.00	0.1440E-02	4150.00	0.5233E-03
1675.00	0.1409E-02	4175.00	0.5209E-03
1700.00	0.1380E-02	4200.00	0.5185E-03
1725.00	0.1351E-02	4225.00	0.5161E-03
1750.00	0.1324E-02	4250.00	0.5138E-03
1775.00	0.1297E-02	4275.00	0.5115E-03
1800.00	0.1272E-02	4300.00	0.5093E-03
1825.00	0.1247E-02	4325.00	0.5070E-03
1850.00	0.1224E-02	4350.00	0.5048E-03
1875.00	0.1201E-02	4375.00	0.5026E-03
1900.00	0.1179E-02	4400.00	0.5004E-03
1925.00	0.1158E-02	4425.00	0.4983E-03
1950.00	0.1138E-02	4450.00	0.4962E-03
1975.00	0.1118E-02	4475.00	0.4941E-03
2000.00	0.1099E-02	4500.00	0.4920E-03
2025.00	0.1081E-02	4525.00	0.4899E-03
2050.00	0.1063E-02	4550.00	0.4879E-03
2075.00	0.1046E-02	4575.00	0.4859E-03
2100.00	0.1030E-02	4600.00	0.4839E-03
2125.00	0.1014E-02	4625.00	0.4819E-03
2150.00	0.9985E-03	4650.00	0.4800E-03
2175.00	0.9837E-03	4675.00	0.4780E-03
2200.00	0.9694E-03	4700.00	0.4761E-03
2225.00	0.9556E-03	4725.00	0.4742E-03

2250.00	0.9423E-03	4750.00	0.4723E-03
2275.00	0.9294E-03	4775.00	0.4705E-03
2300.00	0.9169E-03	4800.00	0.4686E-03
2325.00	0.9048E-03	4825.00	0.4668E-03
2350.00	0.8931E-03	4850.00	0.4650E-03
2375.00	0.8818E-03	4875.00	0.4632E-03
2400.00	0.8709E-03	4900.00	0.4614E-03
2425.00	0.8603E-03	4925.00	0.4597E-03
2450.00	0.8500E-03	4950.00	0.4579E-03
2475.00	0.8401E-03	4975.00	0.4562E-03
2500.00	0.8304E-03	5000.00	0.4545E-03

********** AERSCREEN MAXIMUM IMPACT SUMMARY **********

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	0.1147	0.1147	0.1033	0.6884E-01	0.1147E-01

DISTANCE FROM SOURCE 86.00 meters

IMPACT AT THE AMBIENT BOUNDARY	0.000	0.000	0.000	0.000	0.000

DISTANCE FROM SOURCE 44.00 meters

*HARP - HRACalc v19044 12/6/2020 3:09:16 PM - Cancer Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\551 Keyes\Keyes_Const_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBRE	CONC	RISK_SUM	SCENARIO	DETAILS	INH_RISK	SOIL_RISK	DERMAL_RISK	MMILK_RISK	WATER_RISK	FISH_RISK	CROP_RISK	BEEF_RISK
1			9901	DieselExhF	0.0115	4.38E-06	3YrCancerHigh	*	4.38E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0	0.00E+00	3YrCancerHigh	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

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

*HARP - HRACalc v19044 12/6/2020 3:09:16 PM - Acute Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\551 Keyes\Keyes_Const_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEETH	ENDO	BLOOD	ODOR	GENERAL
1			9901	DieselExhPM	0.1147	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2			107028	Acrolein	0.1147	NonCancerAcute	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.59E-02	0.00E+00	4.59E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

*HARP - HRACalc v19044 12/6/2020 3:09:16 PM - Chronic Risk - Input File: C:\Users\noemi.wyss\Desktop\HARP\551 Keyes\Keyes_Const_HRAInput.hra

INDEX	GRP1	GRP2	POLID	POLABBREV	CONC	SCENARIO	CV	CNS	IMMUN	KIDNEY	GILV	REPRO/DEVEL	RESP	SKIN	EYE	BONE/TEE	ENDO	BLOOD	ODOR	GENERAL
	1		9901	DieselExhPM	0.0115	NonCancerChr	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	2		107028	Acrolein	0	NonCancerChr	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

	DETAILS	INH_CONC	SOIL_DOSE	DERMAL_DOSE	MMILK_DOSE	WATER_DOSE	FISH_DOSE	CROP_DOSE	BEEF_DOSE	DAIRY_DOSE	PIG_DOSE	CHICKEN_DOSE	EGG_DOSE	1ST_DRIVE	2ND_DRIV	3RD_DRIV	PASTURE_	FISH_CON	WATER_CONC
	*	1.15E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIC	NA	NA	0.00E+00	0.00E+00	0.00E+00
	*	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	INHALATIC	NA	NA	0.00E+00	0.00E+00	0.00E+00