

November 8, 2021

Mr. Ross Geller
Applied Planning, Inc.
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Corona, CA 92883

SUBJECT: PROPOSED TORRANCE COMMERCE CENTER PHASE 3 AIR QUALITY, GREENHOUSE GAS, & HEALTH RISK ASSESSMENT

Dear Mr. Ross Geller:

Urban Crossroads, Inc. is pleased to provide the following Air Quality, Greenhouse Gas, & Health Risk Assessment (referred to as Memo) for the Proposed Torrance Commerce Center Phase 3 (Project) which is located at the southwest corner of the Western Avenue and 190th Street intersection in the City of Torrance.

PROJECT DESCRIPTION

The Project proposed up to 730,000 square feet of industrial park use, as shown on Exhibit B. The Project is anticipated to be open by the year 2023. The purpose of this work effort is to demonstrate if the Project is anticipated to generate a significant air quality and greenhouse gas (GHG), or health risk impact.

PROJECT AIR QUALITY IMPACT ANALYSIS

REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) for six of the most common air pollutants: carbon monoxide (CO), lead (Pb), ozone (O₃), particulate matter 10 microns in diameter or less (PM₁₀), particulate matter 2.5 microns in diameter or less (PM_{2.5}), nitrogen dioxide (NO₂), and sulfur dioxide (SO₂) which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (1). On February 21, 2019, California Air Resources Board (CARB) posted the 2018 amendments to the state and national area designations. See Table 1 for attainment designations for the South Coast Air Basin (SCAB) (2).

EXHIBIT A: PRELIMINARY SITE PLAN

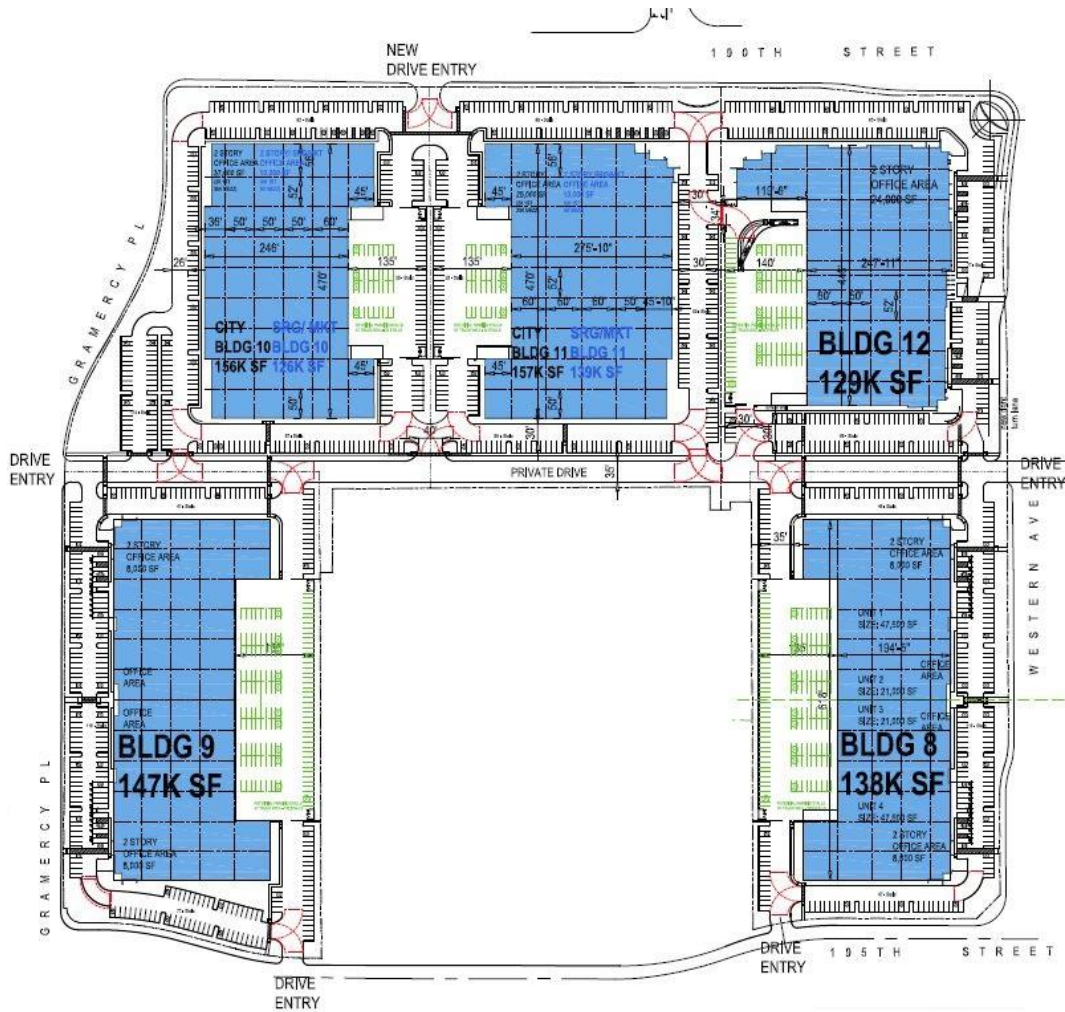


TABLE 1: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O ₃ – 1-hour standard	Nonattainment	--
O ₃ – 8-hour standard	Nonattainment	Nonattainment
PM ₁₀	Nonattainment	Attainment
PM _{2.5}	Nonattainment	Nonattainment
CO	Attainment	Unclassifiable/Attainment
NO ₂	Attainment	Unclassifiable/Attainment
SO ₂	Unclassifiable/Attainment	Unclassifiable/Attainment
Pb ¹	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB
 "--" = The national 1-hour O₃ standard was revoked effective June 15, 2005.

AIR QUALITY REGIONAL EMISSIONS THRESHOLDS

The South Coast Air Quality Management District has developed regional significance thresholds for criteria pollutants, as summarized at Table 2 (3). The SCAQMD’s California Environmental Quality Act (CEQA) Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 2: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
NO _x	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
SO _x	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

lbs/day – Pounds Per Day

Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, March 2015

¹ The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

APPLICABLE REGULATORY REQUIREMENTS

SCAQMD Rules applicable to Project construction activities are listed below. The Project is required to comply with these Rules, acting to reduce construction-source emissions generally. The two most pertinent regulatory requirements that could be modeled, are Rule 403 (Fugitive Dust) (4) and Rule 1113 (Architectural Coatings) (5). Emissions reductions credit for Rule 403 and Rule 1113 have been taken in the analysis. Emissions reductions for other Rules are not quantifiable under current modeling protocols and no emissions reduction credits for these other Rules has been assumed. Additionally, this analysis assumes the Project's compliance with the 2019 Title 24 Standards.

SCAQMD Rule 403

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities.

SCAQMD Rule 1113

This rule serves to limit the Volatile Organic Compound (VOC) content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects.

SCAQMD Rule 402

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

SCAQMD Rule 1301

This rule is intended to provide that pre-construction review requirements to ensure that new or relocated facilities do not interfere with progress in attainment of the National Ambient Air Quality Standards (NAAQS), while future economic growth within the SCAQMD is not unnecessarily restricted. The specific air quality goal is to achieve no net increases from new or modified permitted sources of nonattainment air contaminants or their precursors. Rule 1301 also limits emission increases of ammonia, and Ozone Depleting Compounds (ODCs) from new, modified or relocated facilities by requiring the use of Best Available Control Technology (BACT).

SCAQMD Rule 1401

A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any 1 hour that is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the U.S. Bureau of Mines.

Although the Project would comply with the above regulatory requirements, it should be noted that there is no way to quantify these reductions in the California Emissions Estimator Model (CalEEMod). The two most pertinent regulatory requirements that could be modeled, are Rule 403 (Fugitive Dust) (4) and Rule 1113 (Architectural Coatings) (5). Because they are required by law, credit for Rule 403 and Rule 1113 have been taken in the analysis.

REGIONAL CONSTRUCTION EMISSIONS

Construction activities associated with the Project would result in emissions of CO, VOCs, NO_x, SO_x, PM₁₀, and PM_{2.5}. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

Demolition Activities

The site is developed with 748,269 sf of existing office buildings and up to 915,726 sf of existing asphalt/concrete. Demolition of the existing structures and asphalt/concrete would generate approximately 138,264 tons of material.

Grading Activities

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called “fugitive emissions”. Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). California Emissions Estimator Model (CalEEMod) was utilized to calculate fugitive dust emissions resulting from this phase of activity. This analysis assumes that earthwork activities are expected to balance on site and no import or export of soils would be required.

Construction Duration

For purposes of analysis, construction of Project is expected to commence in October 2022 and be completed in December 2023. The construction schedule utilized in the analysis, shown in Table 3, represents a “worst-case” analysis scenario. That is, should construction occur any time after the dates presented at Table 3, construction-source emissions would be reduced.²

TABLE 3: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Demolition	10/03/2022	12/09/2022	50
Site Preparation	12/10/2022	01/20/2023	30
Grading	01/21/2023	05/05/2023	75
Building Construction	05/06/2023	12/15/2023	160
Paving	10/01/2023	12/15/2023	55
Architectural Coating	07/15/2023	12/15/2023	110

Construction Equipment

A summary of construction equipment by activity is provided at Table 4. Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4 is assumed to operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the City of Torrance Municipal Code.

TABLE 4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Phase Name	Equipment	Amount	Hours Per Day
Demolition	Concrete/Industrial Saws	1	8
	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Preparation	Crawler Tractors	4	8
	Rubber Tired Dozers	3	8

² As shown in the CalEEMod User’s Guide Version 2020.3.2, Section 4.3 “Offroad Equipment” as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 4: CONSTRUCTION EQUIPMENT ASSUMPTIONS (2 OF 2)

Phase Name	Equipment	Amount	Hours Per Day
Grading	Crawler Tractors	2	8
	Excavators	2	8
	Graders	1	8
	Rubber Tired Dozers	1	8
	Scrapers	2	8
Building Construction	Cranes	2	8
	Crawler Tractors	6	8
	Forklifts	6	8
	Generator Sets	2	8
	Welders	2	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

Regional Construction Emissions Summary without Mitigation

The estimated maximum daily construction emissions without mitigation are summarized on Table 5. Detailed construction model outputs are presented in Attachment A to this Memo. Under the assumed scenarios, emissions resulting from the Project construction would not exceed thresholds established by the SCAQMD for emissions of any criteria pollutant. Project construction-source emissions impacts would therefore be less-than-significant.

TABLE 5 OVERALL REGIONAL CONSTRUCTION EMISSIONS SUMMARY (WITHOUT MITIGATION)

Year	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
2022	4.59	73.83	32.63	0.22	29.92	6.87
2023	66.19	71.75	85.58	0.23	17.45	6.49
Winter						
2022	4.59	75.79	32.80	0.22	29.92	6.87
2023	66.39	72.21	83.08	0.22	17.45	6.49
Maximum Daily Emissions	66.39	75.79	85.58	0.23	29.92	6.87
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

REGIONAL OPERATIONAL EMISSIONS

Operational activities associated with the Project would result in emissions of CO, VOCs, NO_x, SO_x, PM₁₀, and PM_{2.5}. Operational related emissions are expected from the following primary sources: area source emissions, energy source emissions, mobile source emissions, on-site equipment emissions, and emissions that would be generated by the Project retail gasoline dispensing operations. Characteristics of these emissions sources are described below.

Area Source Emissions

Architectural Coatings –The Project facilities would require periodic and on-going maintenance that would produce emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings. The emissions associated with architectural coatings were calculated using CalEEMod.

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

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

Energy Source Emissions

Combustion Emissions Associated with Natural Gas and Electricity – Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because the Project does not include electrical generating facilities, criteria pollutant emissions from offsite generation of electricity is excluded from the evaluation herein. Additionally, based on information provided by the Project Applicant, the Project would not utilize natural gas.

Mobile Source Emissions

Project-related operational air quality emissions derive primarily from vehicle trips generated by the Project. Trip characteristics available from the *Proposed Torrance Commerce Center Phase 3 Traffic Analysis (TA)* were utilized in this analysis (6).

On-Site Cargo Handling Equipment Emissions

It is common for industrial uses to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. For this particular Project, on-site modeled operational equipment includes up to three (3) 200 horsepower (hp), compressed natural gas or gasoline-powered tractors/loaders/backhoes operating at 4 hours a day for 365 days of the year.

Existing Regional Operational Air Quality Emissions

As previously stated, the site is currently occupied by 748,269 sf of existing office buildings. The estimated operation-source emissions from the existing development are summarized on Table 6. Detailed operation model outputs are presented in Memo Attachment C.

Project Regional Operational Air Quality Emissions

The estimated operational-source emissions are summarized on Table 7. It should be noted that the existing development emissions were subtracted from the Project operational emissions to determine the new emissions from the proposed Project. Detailed operation model outputs for the Project are presented in Attachment B. As shown on Table 7, the Project's daily regional emissions from on-going operations would not exceed the thresholds of significance for emissions of any criteria pollutant

TABLE 6: EXISTING OPERATIONAL EMISSIONS

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Area Source	17.14	2.58E-03	0.28	2.00E-05	1.01E-03	1.01E-03
Energy Source	0.20	1.82	1.53	0.01	0.14	0.14
Mobile Source	21.97	22.47	223.78	0.49	49.77	13.49
Total Maximum Daily Emissions	39.31	24.30	225.59	0.50	49.91	13.63
Winter						
Area Source	17.14	2.58E-03	0.28	2.00E-05	1.01E-03	1.01E-03
Energy Source	0.20	1.82	1.53	0.01	0.14	0.14
Mobile Source	21.57	24.29	218.66	0.47	49.77	13.49
Total Maximum Daily Emissions	38.91	26.11	220.47	0.48	49.91	13.63

TABLE 7: PROJECT OPERATIONAL EMISSIONS (1 OF 2)

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer						
Area Source	16.76	2.49E-03	0.27	2.00E-05	9.80E-04	9.80E-04
Energy Source	0.20	1.77	1.49	0.01	0.13	0.13
Mobile Source	8.13	44.91	90.80	0.35	24.25	6.74
On-Site Equipment Source	0.33	3.11	2.25	9.50E-03	0.11	0.10
Total Maximum Daily Emissions	25.41	49.80	94.81	0.37	24.50	6.98
<i>Existing Emissions</i>	39.31	24.30	225.59	0.50	49.91	13.63
Net Emissions (Project – Existing)	-13.90	25.50	-130.78	-0.13	-25.42	-6.65
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

TABLE 7: PROJECT OPERATIONAL EMISSIONS (2 OF 2)

Source	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Winter						
Area Source	16.76	2.49E-03	0.27	2.00E-05	9.80E-04	9.80E-04
Energy Source	0.20	1.77	1.49	0.01	0.13	0.13
Mobile Source	7.98	47.17	88.48	0.34	24.25	6.74
On-Site Equipment Source	0.33	3.11	2.25	9.50E-03	0.11	0.10
Total Maximum Daily Emissions	25.26	52.06	92.49	0.36	24.50	6.98
<i>Existing Emissions</i>	<i>38.91</i>	<i>26.11</i>	<i>220.47</i>	<i>0.48</i>	<i>49.91</i>	<i>13.63</i>
Net Emissions (Project – Existing)	-13.65	25.95	-127.98	-0.11	-25.41	-6.65
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

LOCALIZED CONSTRUCTION EMISSIONS

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (7). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs). The SCAQMD established LSTs in response to the SCAQMD Governing Board’s Environmental Justice Initiative I-4³. LSTs represent the maximum emissions from a project that would not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

Sensitive Receptors

Receptor locations are off-site locations where individuals may be exposed to emissions from Project activities. This Memorandum analyzes localized construction and operational emissions impacts at the nearest sensitive receptors.

³The purpose of SCAQMD’s Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as “...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution.”

Residential Receptors – Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that house these persons or places where they gather to exercise are defined as “sensitive receptors”; they are also known to be locations where an individual can remain for 24 hours.

Non-Residential Receptors – Per the *LST Methodology*, commercial, office, and industrial facilities are not included in the definition of sensitive receptor because employees and visitors do not typically remain onsite for a full 24 hours but are typically onsite for approximately eight hours. However, it should be noted that the *LST Methodology* explicitly states that “LSTs based on shorter averaging periods, such as the NO₂ and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours (7).” Consistent with the guidance provided in the SCAQMD’s Final LST Methodology, potential LST impacts at proximate industrial/commercial uses is provided within this analysis.

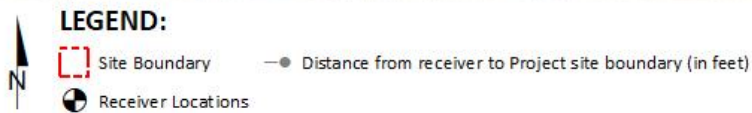
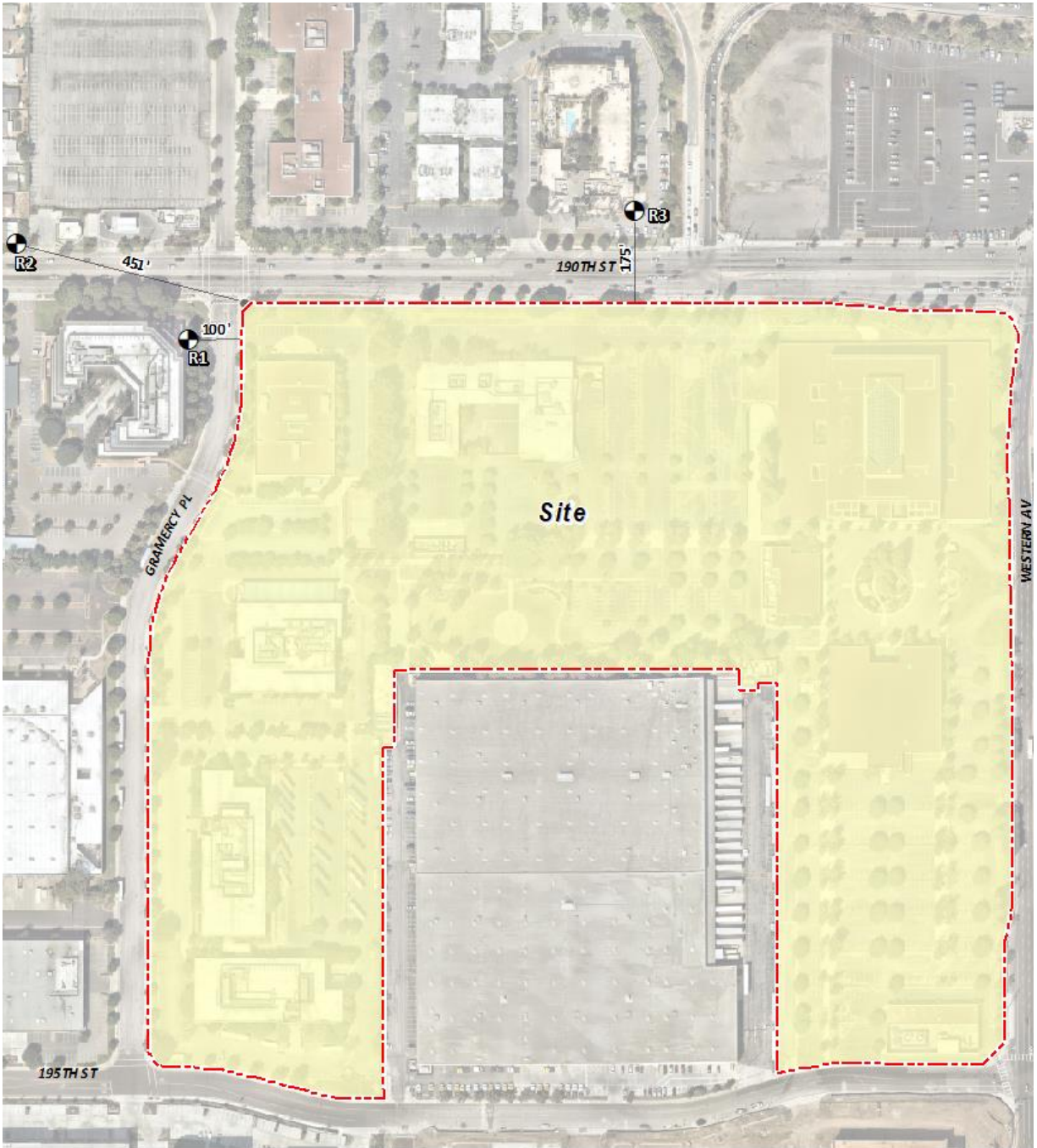
The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project’s potential to cause an individual a cumulatively significant impact. The nearest land use where an individual could remain for 24 hours to the Project site has been used to determine localized construction and operational air quality impacts for emissions of PM₁₀ and PM_{2.5} (since PM₁₀ and PM_{2.5} thresholds are based on a 24-hour averaging time). The nearest receptor used for evaluation of localized impacts of PM₁₀ and PM_{2.5} is represented by the Sonesta Select Los Angeles Torrance hotel at 1925 West 195th Street, approximately 175 feet (53 meters) north of the Project site.

As previously stated, and consistent with *LST Methodology*, the nearest industrial/commercial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO_x and CO as the averaging periods for these pollutants are shorter (8 hours or less) and it is reasonable to assume that an individual could be present at these sites for periods of one to 8 hours. The nearest receptor used for evaluation of localized impacts of NO_x and CO is represented by the industrial park use located west across Gramercy Place, approximately 100 feet (31 meters) west of the Project site. Sensitive receptors in the Project study area are illustrated on Exhibit C.

Localized Construction Emissions Summary without Mitigation

Table 8 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Outputs from the model runs for construction LSTs are provided in Attachment A. For analytical purposes, emissions associated with peak demolition, site preparation, and grading activities are considered for purposes of LSTs since these phases represents the maximum localized emissions that would occur. Any other construction phases of development that overlap would result in lesser emissions and consequently lesser impacts than what is disclosed herein. As shown in Table 8, emissions resulting from the Project construction would not exceed thresholds of significance established by the

EXHIBIT C: SENSITIVE RECEPTOR LOCATIONS



SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for localized Project-related construction-source emissions.

TABLE 8: PROJECT LOCALIZED SIGNIFICANCE SUMMARY OF CONSTRUCTION EMISSIONS (WITHOUT MITIGATION)

On-Site Emissions	Emissions (lbs/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Demolition				
Maximum Daily Emissions	25.72	20.59	24.32	4.65
SCAQMD Localized Threshold	195	1,841	45	10
Threshold Exceeded?	NO	NO	NO	NO
Site Preparation				
Maximum Daily Emissions	50.35	19.98	17.47	6.75
SCAQMD Localized Threshold	195	1,841	45	10
Threshold Exceeded?	NO	NO	NO	NO
Grading				
Maximum Daily Emissions	41.69	28.08	12.29	3.72
SCAQMD Localized Threshold	195	1,841	45	10
Threshold Exceeded?	NO	NO	NO	NO

LOCALIZED OPERATIONAL EMISSIONS

Table 9 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Outputs from the model runs for construction LSTs are provided in Attachment B. As shown in Table 9, emissions resulting from the Project operations would not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for localized Project-related operational-source emissions and no mitigation is required.

TABLE 9: LOCALIZED SIGNIFICANCE SUMMARY OF OPERATIONS

On-Site Emissions	Emissions (lbs/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Maximum Daily Emissions	7.24	8.55	1.46	0.58
SCAQMD Localized Threshold	195	1,841	12	3
Threshold Exceeded?	NO	NO	NO	NO

CO “HOT SPOT” ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or “hot spots.” Further, detailed modeling of Project-specific CO “hot spots” is not needed to reach this conclusion. An adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur.

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

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO “hot spot” analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This “hot spot” analysis did not predict any violation of CO standards, as shown on Table 10.

TABLE 10: CO MODEL RESULTS

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

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

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the “hot spot” analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (8). In contrast, an adverse CO concentration, known as a “hot spot”, would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 1.5 ppm and 1.2 ppm, respectively (data from Metropolitan Riverside County station for 2019). Therefore, even if the traffic volumes for the Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going improvements in ambient air quality, the Project would not be capable of resulting in a CO “hot spot” at any study area intersections.

Traffic volumes generating the CO concentrations for the “hot spot” analysis is shown on Table 11. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (8). The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm)⁴. As shown on Table 12, the highest AM/PM trips on a segment of road for the proposed Project is 4,991 vph and 5,526 vph, respectively, on Western Avenue and 190th Street. As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP. The Project considered herein would not produce the volume of traffic required to generate a CO “hot spot” either in the context of the 2003 Los Angeles hot spot study. Therefore, CO “hot spots” are not an environmental impact of concern for the Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (9).

TABLE 11: 2003 AQMP STUDY TRAFFIC VOLUMES

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

Source: 2003 AQMP

⁴ Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

TABLE 12: PROJECT TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Gramercy Place and 190th Street	1,093/28	77/18	1,303/1,769	1,093/831	3,566/2,646
Western Avenue and I-405 NB Ramps	966/433	1,753/1,451	523/579	0/0	3,242/2,463
Western Avenue and 190th Street	1,335/1,701	1,800/1,489	657/1,373	1,199/963	4,991/5,526
Western Avenue and Del Amo Boulevard	1,183/1,514	1,250/1,547	43/131	792/467	3,268/3,659

AQMP

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

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

In March 2017, the SCAQMD released the *Final 2016 AQMP (2016 AQMP, AQMP)*. The *2016 AQMP* continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (10). Similar to the 2012 AQMP, the *2016 AQMP* incorporates scientific and technological information and planning assumptions, including the *2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (2016-2040 RTP/SCS)*, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (11). The Project’s consistency with the AQMP is discussed below.

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

Consistency Criterion No. 1

The Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

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

Construction Impacts – Consistency Criterion 1

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

Operational Impacts – Consistency Criterion 1

The Project’s operational emissions would not exceed the applicable regional significance thresholds and LST thresholds for operational activity. Therefore, the Project would not conflict with the AQMP according to this criterion.

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

Consistency Criterion No. 2

The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Torrance General Plan is considered to be consistent with the AQMP.

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site’s land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities. As such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

Operational Impacts – Consistency Criterion 2

Per the City's General Plan, the Project site is designated for Business Park uses. The Business Park uses include a mixture of business, professional and medical office, research and development, and light industrial uses. Ancillary retail uses are allowed to support these uses. Development standards are more stringent than for other industrial designations to maximize compatibility with neighboring uses (13). As previously stated, the Project is proposed to 730,000 sf of industrial park use, which is consistent with the site's General Plan land use designation. Since the Project's proposed land uses are consistent with the General Plan and as the Project's construction and operational-source air pollutant emissions would not exceed the regional or localized significance thresholds, the Project is determined to be consistent with the second criterion.

AQMP Consistency Conclusion

On the basis of the preceding discussion, the Project would not result in or cause NAAQS or CAAQS violations. Additionally, the Project's proposed land use designation for the subject site is consistent with the development intensities as reflected in the General Plan. As such, the Project is therefore considered to be consistent with the AQMP.

ODORS

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

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

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

completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the solid waste regulations. The Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of odor-source public nuisances. Therefore, odors associated with the Project construction and operations would be less than significant and no mitigation is required (14).

POTENTIAL CRITERIA POLLUTANT HEALTH IMPACTS AT SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.

Additionally, the Project will not exceed the SCAQMD localized significance thresholds during operational activity. Further Project traffic would not create or result in a CO “hotspot.” Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations. Relevant case law supporting these conclusions is summarized below.

Friant Ranch Case

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, the California Supreme Court held that an Environmental Impact Report’s (EIR) air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided.

As discussed in briefs filed in the Friant Ranch case, correlating a project’s criteria air pollutant emissions to specific health impacts is challenging. The SCAQMD, which has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, and thus it is uniquely situated to express an opinion on how lead agencies should correlate air quality impacts with specific health outcomes (15) noted that it may be “difficult to quantify health impacts for criteria pollutants.” SCAQMD used O₃ as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but very large, regional-scale projects. First, forming O₃ “takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources.” (SCAQMD, 2015a, p. 11) Second, “it takes a large amount of additional precursor emissions (NO_x and VOCs) to cause a modeled increase in ambient ozone levels over an entire region,” with a 2012 study showing that “reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD’s monitor site with the highest levels by only 9 parts per billion.” (SCAQMD, 2015a, pp. 12-14)

SCAQMD concluded that it “does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_x or VOC emissions from relatively small projects.” (SCAQMD, 2015a, pp. 12-14) The San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) ties the difficulty of

correlating the emission of criteria pollutants to health impacts to how ozone and particulate matter are formed, stating that “[b]ecause of the complexity of ozone formation, a specific tonnage amount of NO_x or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area.” (SJVUAPCD, 2015, p. 4) Similarly, the tonnage of PM “emitted does not always equate to the local PM concentration because it can be transported long distances by wind,” and “[s]econdary PM, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO_x) and NO_x,” meaning that “the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area.” (SJVUAPCD, 2015, p. 5) The disconnect between the amount of precursor pollutants and the concentration of ozone or PM formed makes it difficult to determine potential health impacts, which are related to the concentration of ozone and PM experienced by the receptor rather than levels of NO_x, SO_x, and VOCs produced by a source.

Most local agencies lack the data to do their own assessment of potential health impacts from criteria air pollutant emissions, as would be required to establish customized, locally specific thresholds of significance based on potential health impacts from an individual development project. The use of national or “generic” data to fill the gap of missing local data would not yield accurate results because such data does not capture local air patterns, local background conditions, or local population characteristics, all of which play a role in how a population experiences air pollution. Because it is impracticable to accurately isolate the exact cause of a human disease (for example, the role a particular air pollutant plays compared to the role of other allergens and genetics in cause asthma), existing scientific tools cannot accurately estimate health impacts of the Project’s air emissions without undue speculation. Instead, readers are directed to the Project’s air quality impact analysis above, which provides extensive information concerning the quantifiable and non-quantifiable health risks related to the Project’s construction and long-term operation.

The LST analysis presented herein substantiates that the Project would not result in emissions exceeding SCAQMD’s LSTs. Therefore, the Project would not be expected to exceed the most stringent applicable federal or state ambient air quality standards for emissions of CO, NO_x, PM₁₀, and PM_{2.5}.

As the Project’s emissions would comply with federal, state, and local air quality standards, the Project’s emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level and would not provide a reliable indicator of health effects if modeled. Please refer also to the Project Health Risk Assessment which addresses potential cancer risks associated with Project-source DPM emissions.

PROJECT OPERATIONAL HEALTH RISK ASSESSMENT

This analysis also evaluates the potential mobile source health risk impacts to receptors (residents or workers) associated with the development of the proposed Project. Health risk exposures were modeled in accordance with the guidelines in the SCAQMD’s Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Idling Emissions for CEQA Air Quality Analysis. SCAQMD

recommends using the Environmental Protection Agency's (U.S. EPA's) AERMOD model which has been employed accordingly. Risk calculations were conducted consistent with the Office of Environmental Health Hazards Assessment (OEHHA)'s 2015 Risk Assessment Guidelines. Detailed health risk modeling results are presented at Attachment C to this Memorandum.

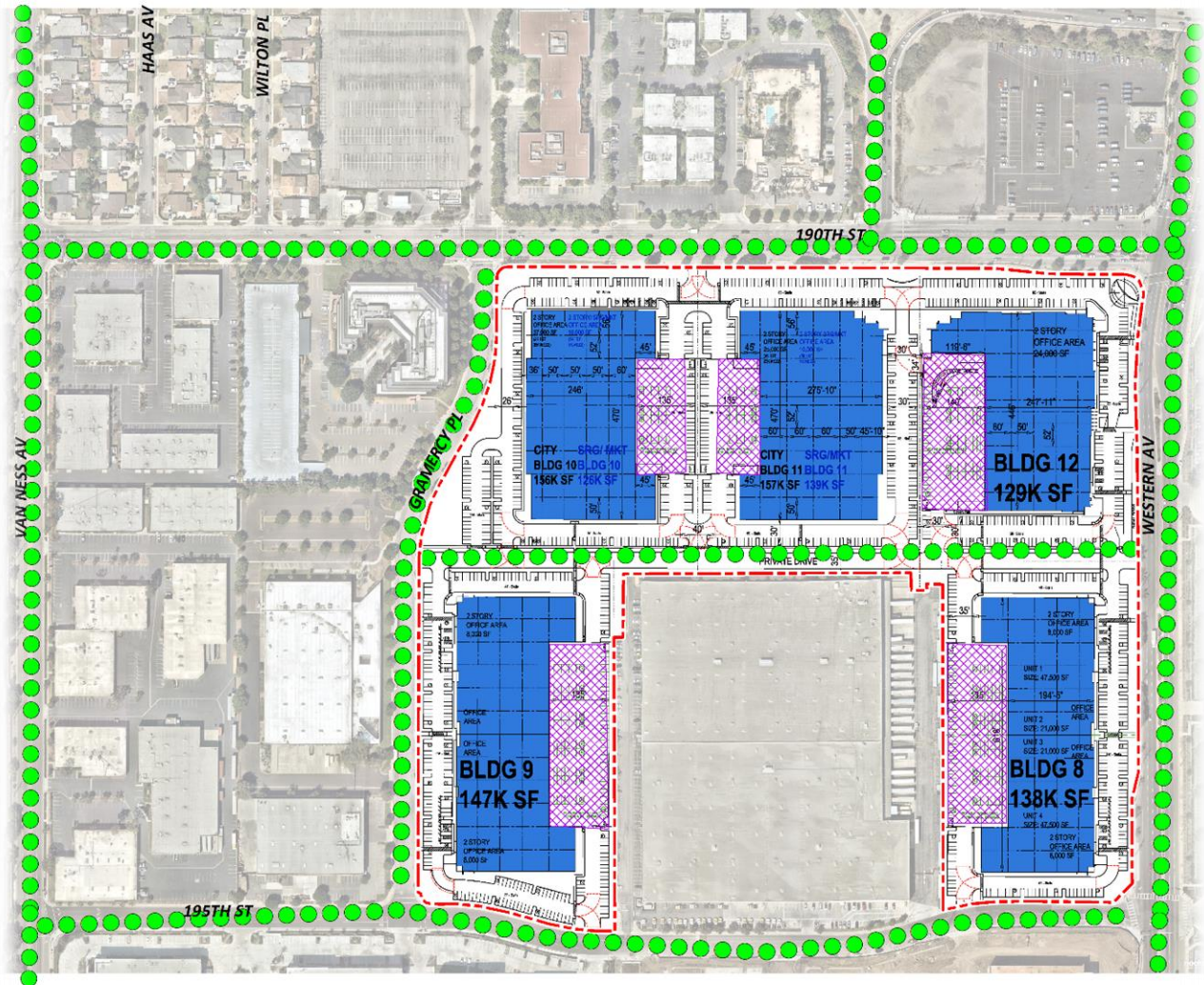
More specifically the analysis presented here evaluates potential health risk impacts that could result from exposure to Toxic Air Contaminants (TACs), including diesel particulate matter (DPM) generated by heavy-duty diesel trucks accessing the Project.

At the maximally exposed individual receptor (MEIR), located at R2, the maximum incremental cancer risk attributable to the Project is estimated at 0.86 in one million, which is less than the SCAQMD threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable SCAQMD threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk at any potentially affected receptors during operational activity. The modeled source configuration is illustrated on Exhibit D (receptors were previously presented on Exhibit C).

PROJECT CONSTRUCTION HEALTH RISK ASSESSMENT

This analysis also evaluates the potential construction health risk impacts to associated with construction of the proposed Project. Construction activities would result in a MEIR of 0.37 in one million which is less than the SCAQMD threshold of 10 in one million. At this same location, non-cancer risks were estimated to be <0.01, which would not exceed the applicable SCAQMD threshold of 1.0. As such, the Project will not cause a significant human health or cancer risk at any potentially affected receptors during construction activity. The modeled source configuration is illustrated on Exhibit E (receptors were previously presented on Exhibit C).

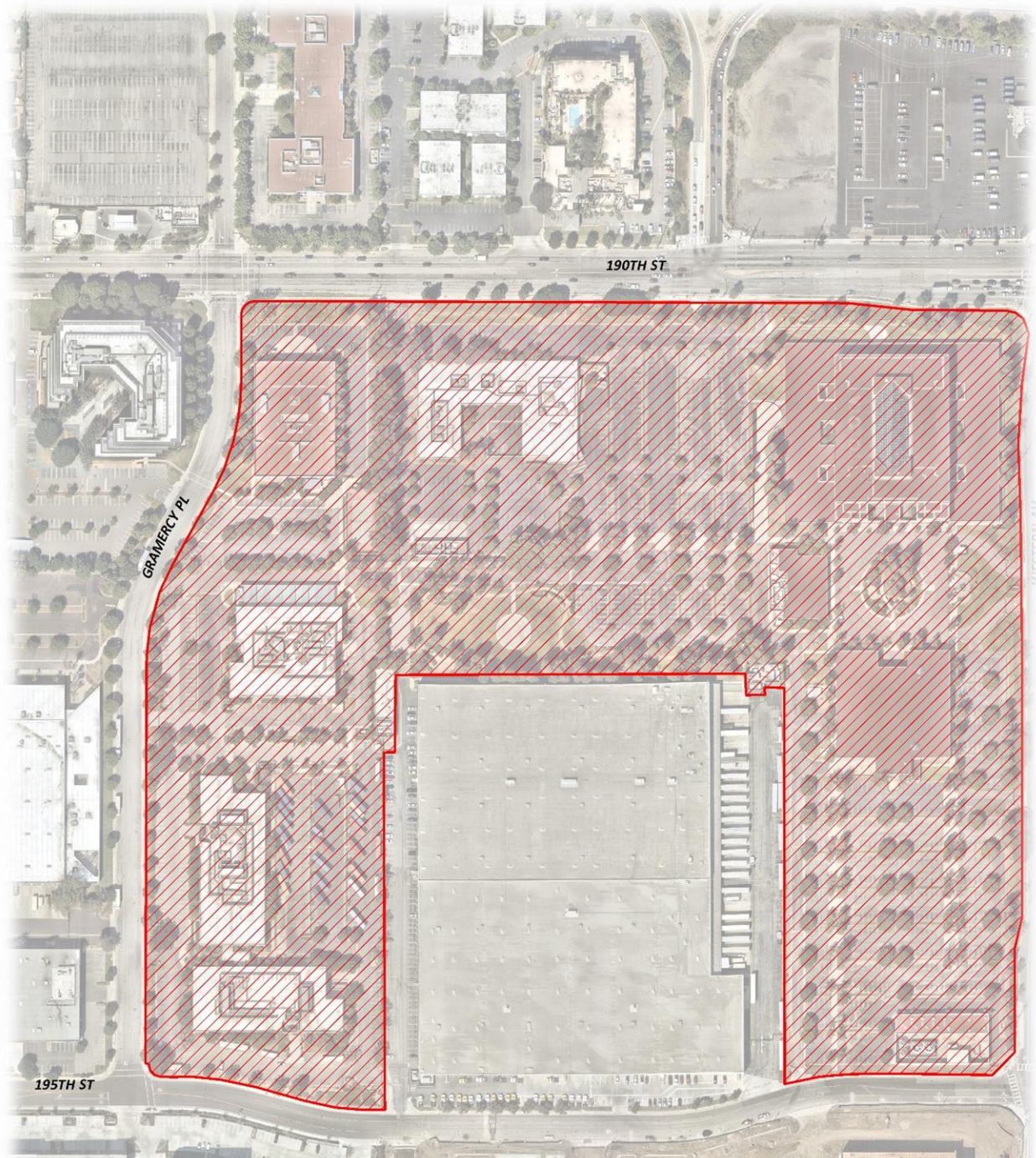
EXHIBIT D: MODELED OPERATIONAL SOURCES



LEGEND:

- Site Boundary
- On-Site Idling
- On-Site and Off-Site Truck Travel

EXHIBIT E: MODELED CONSTRUCTION SOURCE



CUMULATIVE IMPACTS

The CAAQS designate the Project site as nonattainment for O₃, PM₁₀, and PM_{2.5} while the NAAQS designates the Project site as nonattainment for O₃ and PM_{2.5}.

The SCAQMD has published a report on how to address cumulative impacts from air pollution: *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution* (16). In this report the SCAQMD clearly states (Page D-3):

“...the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant.”

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

Construction Impacts

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

Operational Impacts

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

PROJECT GHG ANALYSIS

GHG EMISSIONS THRESHOLDS

According to the CEQA Guidelines Appendix G thresholds, to determine whether impacts from GHG emissions are significant. Would the project:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

The evaluation of an impact under CEQA requires measuring data from a project against both existing conditions and a “threshold of significance.” With regard to establishing a significance threshold, the California Office of Planning and Research’s amendments to the CEQA Guidelines Section 15064.7(c) state that “[w]hen adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence.”

CEQA Guidelines Section 15064.4(a) further states, “...A lead agency shall have discretion to determine, in the context of a particular project, whether to: (1) Use a model or methodology to quantify GHG emissions resulting from a project, and which model or methodology to use ...; or (2) Rely on a qualitative analysis or performance-based standards.”

The City of Torrance in coordination with South Bay Cities Council of Governments (SBCCOG), has developed a Climate Action Plan (CAP) to reduce GHG emissions and thereby reduce the City’s contribution to global climate change concerns. However, this CAP is not a Qualified GHG Emissions Reduction Plan under CEQA per the requirements outlined in the CEQA Guidelines, Section 15183.5(D); therefore, no CEQA document can tier from the City CAP. Therefore, the City of Torrance accepts the Tier 3 quantitative interim significance thresholds recommended by the SCAQMD for commercial, industrial, mixed-use, and industrial development projects as follows:

- Industrial Projects: 10,000 metric tons of carbon dioxide equivalents per year (MTCO₂e/yr).
- Commercial, Residential, and Mixed-Use Projects (including industrial parks, warehouses, etc.): 3,000 MTCO₂e/yr.

Existing GHG Emissions

As previously stated, the site is currently occupied by 748,269 sf of existing office buildings. The estimated GHG emissions from the existing development are summarized on Table 13. Detailed operation model outputs are presented in Memo Attachment C.

TABLE 13: EXISTING GHG EMISSIONS

Source	Emissions (MT/yr)			
	CO ₂	CH ₄	N ₂ O	Total CO ₂ e
Area Source	0.07	1.80E-04	0.00	0.07
Energy Source	2,201.83	0.16	0.03	2,213.47
Mobile Source	6,056.87	0.42	0.27	6,146.28
Waste Source	141.26	8.35	0.00	349.96
Water Usage Source	509.91	4.37	0.11	651.15
Total CO₂e (All Sources)	9,360.94			

Project GHG Emissions

The annual GHG emissions associated with the operation of the proposed Project are summarized in Table 14. It should be noted that the existing development emissions were subtracted from the Project emissions to determine the new emissions from the proposed Project. As shown in Table 15, construction and operation of the Project would generate a net decrease of approximately -454.30 MTCO₂e/yr when compared to the existing use.

TABLE 14: PROJECT GHG EMISSIONS

Emission Source	Emissions (MT/yr)			
	CO ₂	CH ₄	N ₂ O	Total CO ₂ e
Annual construction-related emissions amortized over 30 years	78.73	0.01	0.00	80.24
Area Source	0.07	1.70E-04	0.00	0.07
Energy Source	2,129.09	0.16	0.02	2,140.35
Mobile Source	5,289.10	0.29	0.53	5,455.65
On-Site Equipment	152.26	0.05	0.00	153.49
Waste	183.75	10.86	0.00	455.23
Water Usage	443.38	5.53	0.13	621.62
Total CO₂e (All Sources)	8,906.63			
<i>Existing Emissions</i>	<i>9,360.94</i>			
Net Emissions	-454.30			

GHG EMISSIONS FINDINGS AND RECOMMENDATIONS

GHG Impact 1

Potential to generate direct or indirect GHG emissions that would result in a significant impact on the environment.

As previously stated, the City of Torrance accepts the Tier 3 quantitative interim significance thresholds recommended by the SCAQMD of 10,000 MTCO₂e/yr for industrial uses. The SCAQMD’s adopted numerical threshold of 10,000 MTCO₂e/yr for industrial stationary source emissions is typically selected as the significance criterion. However, the City has determined that the SCAQMD’s draft threshold of 3,000 MTCO₂e per year is more conservative and appropriate for industrial and warehouse land use development projects. The 3,000 MTCO₂e/yr threshold is based on the SCAQMD staff’s proposed GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD Interim Thresholds. The SCAQMD Interim Threshold identifies a screening threshold to determine whether additional analysis is required.

As shown on Table 14, the Project would generate approximately -454.30 MTCO₂e/yr. Project GHG emissions therefore would not exceed the screening threshold of 3,000 MTCO₂e/yr. GHG emissions not exceeding 3,000 MTCO₂e/yr screening threshold would not result in a significant impact on the environment. Please note further that any TDMs that may be implemented by the Project would act to reduce VMT and vehicular-source GHG emissions. Conservatively, any resulting GHG emissions reductions are not assumed in this analysis.

Based on the preceding, the potential for the Project to generate direct or indirect GHG emissions that would result in a significant impact on the environment is considered less-than-significant.

GHG Impact 2

The Project would have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

As summarized below, the Project would be consistent with the City of Torrance Climate Action Plan and by extension would be consistent with and would not conflict with any other applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

CLIMATE ACTION PLAN CONSISTENCY

The Climate Action Plan identifies GHG emissions sources, presents current and future GHG emissions estimates, identifies a GHG reduction target for future years, and provides strategic policies and actions to reduce GHG emissions from energy, transportation, land use, water use, and waste sectors. The Climate Action Plan is consistent with and implements GHG emissions legislation, GHG emissions reduction strategies, and GHG emissions reduction policies of the State of California. The Climate Action Plan is also consistent with and implements GHG emissions legislation, GHG emissions reduction strategies, and GHG emissions reduction policies implemented by the South Bay Cities Council of Governments (SBCCOG)⁵.

The Climate Action Plan's existing and projected GHG inventories are based on land use designations and buildout of the City reflected in the City of Torrance General Plan. The Project is consistent with the land use designation and projected buildout conditions presented in the General Plan. Since the Project is consistent with the buildout conditions reflected under the General Plan, the Project by extension would not result in GHG emissions beyond those considered and addressed in the Climate Action Plan.

All development in the City, including the Project, is required to conform to all City-adopted policies including those presented in the Climate Action Plan. The City, through established design and development review processes, would ensure that applicable Climate Action Plan GHG-reducing strategies would be incorporated in the Project.

Based on the preceding, the potential for the Project to conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases would be less-than-significant.

⁵ The Climate Action Plan can be accessed at:

<https://www.torranceca.gov/home/showpublisheddocument/56796/637117407753400000>

PROPOSED PROJECT ENERGY ANALYSIS

CONSTRUCTION ENERGY USAGE

Project Construction Power Cost

As shown on Table 17, the total power cost of the on-site electricity usage during the construction of the Project is estimated to be approximately \$56,394.11.

TABLE 17: CONSTRUCTION POWER COST

Land Use	Power Cost (per 1,000 SF)	Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
Industrial Park	\$2.37	730.000	14	\$24,221.40
Other Non-Asphalt Surfaces	\$2.37	484.842	14	\$16,087.04
Parking Lot	\$2.37	484.800	14	\$16,085.66
CONSTRUCTION POWER COST				\$56,394.11

Project Construction Electricity Usage

As shown on Table 18, the total electricity usage from on-site Project construction related activities is estimated to be approximately 505,324 kWh.

TABLE 18: CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
Industrial Park	\$0.11	217,038
Other Non-Asphalt Surfaces	\$0.11	144,149
Parking Lot	\$0.11	144,137
CONSTRUCTION ELECTRICITY USAGE		505,324

Construction Equipment Fuel Estimates

As presented in Table 19, Project construction activities would consume an estimated 119,000 gallons of diesel fuel.

TABLE 19: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Phase Name	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
Demolition	50	Concrete/Industrial Saws	81	1	8	0.73	473	1,278
		Excavators	158	3	8	0.38	1,441	3,894
		Rubber Tired Dozers	247	2	8	0.40	1,581	4,272
Site Preparation	30	Crawler Tractors	212	4	8	0.43	2,917	4,730
		Rubber Tired Dozers	247	3	8	0.40	2,371	3,845
Grading	75	Crawler Tractors	212	2	8	0.43	1,459	5,913
		Excavators	158	2	8	0.38	961	3,894
		Graders	187	1	8	0.41	613	2,487
		Rubber Tired Dozers	247	1	8	0.40	790	3,204
		Scrapers	367	2	8	0.48	2,819	11,427
Building Construction	160	Cranes	231	2	8	0.29	1,072	9,270
		Crawler Tractors	212	6	8	0.43	4,376	37,844
		Forklifts	89	6	8	0.20	854	7,389
		Generator Sets	84	2	8	0.74	995	8,602
		Welders	46	2	8	0.45	331	2,864
Paving	55	Pavers	130	2	8	0.42	874	2,597
		Paving Equipment	132	2	8	0.36	760	2,260
		Rollers	80	2	8	0.38	486	1,446
Architectural Coating	110	Air Compressors	78	1	8	0.48	300	1,781
CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)								119,000

Construction Worker Fuel Estimates

Based on Table 20, it is estimated that 68,563 gallons of fuel will be consumed related to construction worker trips during full construction of the Project. It should be noted that construction worker trips would represent a “single-event” gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

TABLE 20: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES

Phase Name	Year	Duration (Days)	Worker Trips/Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
LDA							
Demolition	2022	50	8	14.7	5,880	31.02	190
Site Preparation		15	9	14.7	1,985	31.02	64
Site Preparation	2023	15	9	14.7	1,985	32.02	62
Grading		75	10	14.7	11,025	32.02	344
Building Construction		160	359	14.7	844,368	32.02	26,374
Paving		55	8	14.7	6,468	32.02	202
Architectural Coating		110	72	14.7	116,424	32.02	3,636
LDT1							
Demolition	2022	50	4	14.7	2,940	26.34	112
Site Preparation		15	5	14.7	1,103	26.34	42
Site Preparation	2023	15	5	14.7	1,103	27.10	41
Grading		75	5	14.7	5,513	27.10	203
Building Construction		160	180	14.7	423,360	27.10	15,620
Paving		55	4	14.7	3,234	27.10	119
Architectural Coating		110	36	14.7	58,212	27.10	2,148
LDA							
Demolition	2022	50	4	14.7	2,940	24.60	120
Site Preparation		15	5	14.7	1,103	24.60	45
Site Preparation	2023	15	5	14.7	1,103	25.54	43
Grading		75	5	14.7	5,513	25.54	216
Building Construction		160	180	14.7	423,360	25.54	16,576
Paving		55	4	14.7	3,234	25.54	127
Architectural Coating		110	36	14.7	58,212	25.54	2,279
TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION							68,563

Construction Vendor Fuel Estimates

Based on Table 21, it is estimated that 70,395 gallons of fuel will be consumed from construction vendor trips during full construction of the Project. It should be noted that Project construction vendor trips would represent a “single-event” diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

TABLE 21: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES

Phase Name	Year	Duration (Days)	Vendor/Hauling Trips/Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
MHDT							
Demolition	2022	50	22	6.9	7,590	8.90	852
Site Preparation		15	14	6.9	1,449	8.90	163
Site Preparation	2023	15	14	6.9	1,449	9.25	157
Grading		75	34	6.9	17,595	9.25	1,902
Building Construction		160	71	6.9	78,384	9.25	8,474
HHDT (Vendor)							
Demolition	2022	50	22	6.9	7,590	6.37	1,191
Site Preparation		15	14	6.9	1,449	6.37	227
Site Preparation	2023	15	14	6.9	1,449	6.75	215
Grading		75	34	6.9	17,595	6.75	2,608
Building Construction		160	71	6.9	78,384	6.75	11,618
HHDT (Hauling)							
Demolition	2022	50	274	20	274,000	6.37	42,989
TOTAL CONSTRUCTION VENDOR FUEL CONSUMPTION							70,395

OPERATIONAL ENERGY USAGE

Existing Transportation Energy Demands

As previously stated, the site is currently occupied by 748,269 sf of existing office buildings. The transportation energy demands for the existing development are summarized on Table 22.

TABLE 22: TOTAL EXISTING DEVELOPMENT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION

Vehicle Type	Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
LDA	9,682,092	32.02	302,418
LDT1	1,116,890	27.10	41,209
LDT2	3,331,937	25.54	130,459
MDV	2,261,273	20.81	108,681
LHDT1	410,347	13.65	30,059
LHDT2	108,110	14.07	7,684
MHDT	186,166	9.25	20,127
HHDT	142,393	6.75	21,104
OBUS	16,439	6.64	2,476
UBUS	10,859	3.97	2,733
MCY	433,540	35.68	12,150
SBUS	12,405	8.18	1,516
MH	59,964	5.98	10,033
TOTAL (ALL VEHICLES)	17,772,415	-	690,649

Project Transportation Energy Demands

The transportation energy demands for the proposed Project land uses are summarized on Table 23. It should be noted that the existing development fuel consumption were subtracted from the Project fuel consumption to determine the fuel consumption from the proposed Project. As summarized on Table 23 the Project will result in a net annual VMT of -8,100,245 and an estimated net annual fuel consumption of -116,718 gallons of fuel.

TABLE 23: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (1 OF 2)

Vehicle Type	Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
LDA	4,283,082	32.02	133,781
LDT1	494,259	27.10	18,236
LDT2	1,473,845	25.54	57,707
MDV	1,000,428	20.81	48,083
MCY	192,046	35.68	5,382
LHDT1	137,722	13.65	10,088
LHDT2	36,325	14.07	2,582

TABLE 23: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (2 OF 2)

Vehicle Type	Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
MHDT	160,230	9.25	17,323
HHDT	1,894,234	6.75	280,749
TOTAL (ALL VEHICLES)	9,672,170	-	573,932
EXISTING FUEL CONSUMPTION	17,772,415	-	690,649
NET FUEL CONSUMPTION	-8,100,245	-	-116,718

Existing Energy Demands

Annual natural gas and electricity demands of the existing development are summarized in Table 24.

TABLE 24: EXISTING ANNUAL ENERGY DEMAND SUMMARY

Land Use	Natural Gas Demand (kBtu/year)
General Office Building	6,771,830
Other Asphalt Surfaces	0
Parking Lot	0
TOTAL PROJECT NATURAL GAS DEMAND	6,771,830
Land Use	Electricity Demand (kWh/year)
General Office Building	10,094,100
Other Asphalt Surfaces	0
Parking Lot	283,640
TOTAL PROJECT ELECTRICITY DEMAND	10,377,740

Project Facility Energy Demands

Annual natural gas and electricity demands of the proposed Project are summarized in Table 25. It should be noted that the existing development energy usage were subtracted from the Project energy usage to determine the energy consumption from the proposed Project. Project facility net operational energy demands are estimated at: -165,330 kBtu/year of natural gas; and -360,360 kWh/year of electricity.

TABLE 25: PROJECT ANNUAL ENERGY DEMAND SUMMARY

Land Use	Natural Gas Demand (kBTU/year)
Industrial Park	6,606,500
Other Non-Asphalt Surfaces	0
Parking Lot	0
TOTAL PROJECT NATURAL GAS DEMAND	6,606,500
<i>EXISTING NATURAL GAS DEMAND</i>	<i>6,771,830</i>
NET NATURAL GAS DEMAND	-165,330
Land Use	Electricity Demand (kWh/year)
Industrial Park	9,847,700
Other Non-Asphalt Surfaces	0
Parking Lot	169,680
TOTAL PROJECT ELECTRICITY DEMAND	10,017,380
<i>EXISTING ELECTRICITY DEMAND</i>	<i>10,377,740</i>
NET ELECTRICITY DEMAND	-360,360

CONCLUSION

The results of the analysis indicate that the Project would not result in a significant air quality, GHG, or energy impacts.

If you have any questions, please contact me at (949) 660-1994.

Respectfully submitted,

URBAN CROSSROADS, INC.



Haseeb Qureshi,
 Associate Principal

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ATTACHMENT A:

CALEEMOD CONSTRUCTION EMISSIONS MODEL OUTPUTS

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Torrance III (Construction - Unmitigated)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	730.00	1000sqft	16.76	730,000.00	0
Parking Lot	1,212.00	Space	10.91	484,800.00	0
Other Non-Asphalt Surfaces	11.36	Acre	11.36	494,841.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 39.03 acres

Construction Phase - Construction adjusted to be completed by Opening Year 2023

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment -

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

Grading - Analysis conservatively assumes that 20 acres can be disturbed per day

Demolition -

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT - Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction

Architectural Coating - Rule 1113

Vehicle Trips - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstructionPhase	NumDays	55.00	110.00
tblConstructionPhase	NumDays	740.00	160.00
tblConstructionPhase	PhaseEndDate	8/7/2026	12/15/2023
tblConstructionPhase	PhaseEndDate	3/6/2026	12/15/2023
tblConstructionPhase	PhaseEndDate	5/22/2026	12/15/2023
tblConstructionPhase	PhaseStartDate	5/23/2026	7/15/2023
tblConstructionPhase	PhaseStartDate	3/7/2026	10/1/2023
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	T24E	4.21	0.00
tblEnergyUse	T24NG	8.50	0.00
tblGrading	AcresOfGrading	300.00	1,500.00
tblGrading	AcresOfGrading	105.00	600.00
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	905.20	0.00
tblTripsAndVMT	HaulingTripNumber	13,672.00	13,671.00
tblTripsAndVMT	VendorTripNumber	0.00	44.00
tblTripsAndVMT	VendorTripNumber	0.00	27.00
tblTripsAndVMT	VendorTripNumber	0.00	67.00
tblTripsAndVMT	VendorTripNumber	280.00	142.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblWater	IndoorWaterUseRate	168,812,500.00	0.00

2.0 Emissions Summary

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.5889	73.8332	32.6312	0.2189	64.4096	2.1703	66.0150	12.3240	1.9971	14.3212	0.0000	23,442.59 76	23,442.59 76	2.0763	3.0905	24,415.47 60
2023	66.1894	71.7462	85.5848	0.2259	39.6504	2.9249	41.4123	12.3240	2.7288	13.9452	0.0000	22,523.95 19	22,523.95 19	3.2731	0.6113	22,787.94 53
Maximum	66.1894	73.8332	85.5848	0.2259	64.4096	2.9249	66.0150	12.3240	2.7288	14.3212	0.0000	23,442.59 76	23,442.59 76	3.2731	3.0905	24,415.47 60

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	4.5889	73.8332	32.6312	0.2189	28.3133	2.1703	29.9187	4.9320	1.9971	6.8664	0.0000	23,442.59 76	23,442.59 76	2.0763	3.0905	24,415.47 60
2023	66.1894	71.7461	85.5848	0.2259	15.6919	2.9249	17.4538	4.8693	2.7288	6.4905	0.0000	22,523.95 19	22,523.95 19	3.2731	0.6113	22,787.94 53
Maximum	66.1894	73.8332	85.5848	0.2259	28.3133	2.9249	29.9187	4.9320	2.7288	6.8664	0.0000	23,442.59 76	23,442.59 76	3.2731	3.0905	24,415.47 60

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	57.71	0.00	55.90	60.24	0.00	52.75	0.00	0.00	0.00	0.00	0.00	0.00

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	16.7481	1.8200e-003	0.1994	1.0000e-005	0.0000	7.1000e-004	7.1000e-004	0.0000	7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003	0.0000	0.4555

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	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	16.7481	1.8200e-003	0.1994	1.0000e-005	0.0000	7.1000e-004	7.1000e-004	0.0000	7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003	0.0000	0.4555

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	12/9/2022	5	50	
2	Site Preparation	Site Preparation	12/10/2022	1/20/2023	5	30	
3	Grading	Grading	1/21/2023	5/5/2023	5	75	
4	Building Construction	Building Construction	5/6/2023	12/15/2023	5	160	
5	Paving	Paving	10/1/2023	12/15/2023	5	55	
6	Architectural Coating	Architectural Coating	7/15/2023	12/15/2023	5	110	

Acres of Grading (Site Preparation Phase): 600

Acres of Grading (Grading Phase): 1500

Acres of Paving: 22.27

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,095,000; Non-Residential Outdoor: 365,000; Striped Parking Area: 58,778 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	2	8.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Grading	Crawler Tractors	2	8.00	212	0.43
Building Construction	Crawler Tractors	6	8.00	212	0.43

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	44.00	13,671.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	67.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	718.00	142.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	144.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Water Exposed Area

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					59.1742	0.0000	59.1742	8.9595	0.0000	8.9595			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	59.1742	1.2427	60.4169	8.9595	1.1553	10.1148		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2738	45.9206	10.7070	0.1699	4.7859	0.3412	5.1270	1.3121	0.3264	1.6385		18,613.7663	18,613.7663	0.9887	2.9533	19,518.5702
Vendor	0.0866	2.1553	0.7390	8.6200e-003	0.2818	0.0205	0.3024	0.0812	0.0196	0.1008		926.0310	926.0310	0.0310	0.1334	966.5706
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
Total	1.4123	48.1138	12.0371	0.1801	5.2354	0.3628	5.5981	1.4378	0.3470	1.7848		19,695.8164	19,695.8164	1.0238	3.0905	20,642.3839

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					23.0780	0.0000	23.0780	3.4942	0.0000	3.4942			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	23.0780	1.2427	24.3206	3.4942	1.1553	4.6495	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2738	45.9206	10.7070	0.1699	4.7859	0.3412	5.1270	1.3121	0.3264	1.6385		18,613.7663	18,613.7663	0.9887	2.9533	19,518.5702
Vendor	0.0866	2.1553	0.7390	8.6200e-003	0.2818	0.0205	0.3024	0.0812	0.0196	0.1008		926.0310	926.0310	0.0310	0.1334	966.5706
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
Total	1.4123	48.1138	12.0371	0.1801	5.2354	0.3628	5.5981	1.4378	0.3470	1.7848		19,695.8164	19,695.8164	1.0238	3.0905	20,642.3839

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					39.2763	0.0000	39.2763	12.2209	0.0000	12.2209			0.0000			0.0000
Off-Road	4.4735	50.3453	19.9794	0.0569		2.1564	2.1564		1.9839	1.9839		5,508.7626	5,508.7626	1.7817		5,553.3037
Total	4.4735	50.3453	19.9794	0.0569	39.2763	2.1564	41.4327	12.2209	1.9839	14.2048		5,508.7626	5,508.7626	1.7817		5,553.3037

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0531	1.3226	0.4535	5.2900e-003	0.1729	0.0126	0.1855	0.0498	0.0121	0.0619		568.2463	568.2463	0.0190	0.0819	593.1229
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
Total	0.1154	1.3681	1.1629	7.1300e-003	0.3741	0.0139	0.3880	0.1032	0.0132	0.1164		755.4692	755.4692	0.0241	0.0864	781.8147

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					15.3177	0.0000	15.3177	4.7661	0.0000	4.7661			0.0000			0.0000
Off-Road	4.4735	50.3453	19.9794	0.0569		2.1564	2.1564		1.9839	1.9839	0.0000	5,508.7626	5,508.7626	1.7817		5,553.3037
Total	4.4735	50.3453	19.9794	0.0569	15.3177	2.1564	17.4742	4.7661	1.9839	6.7500	0.0000	5,508.7626	5,508.7626	1.7817		5,553.3037

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0531	1.3226	0.4535	5.2900e-003	0.1729	0.0126	0.1855	0.0498	0.0121	0.0619		568.2463	568.2463	0.0190	0.0819	593.1229
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
Total	0.1154	1.3681	1.1629	7.1300e-003	0.3741	0.0139	0.3880	0.1032	0.0132	0.1164		755.4692	755.4692	0.0241	0.0864	781.8147

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					39.2763	0.0000	39.2763	12.2209	0.0000	12.2209			0.0000			0.0000
Off-Road	3.8257	41.8226	18.2686	0.0568		1.7555	1.7555		1.6151	1.6151		5,505.6246	5,505.6246	1.7806		5,550.1404
Total	3.8257	41.8226	18.2686	0.0568	39.2763	1.7555	41.0318	12.2209	1.6151	13.8359		5,505.6246	5,505.6246	1.7806		5,550.1404

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0311	1.0364	0.4015	5.0300e-003	0.1730	5.2100e-003	0.1782	0.0498	4.9800e-003	0.0548		540.7627	540.7627	0.0181	0.0778	564.3840
Worker	0.0576	0.0402	0.6523	1.7800e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		182.2703	182.2703	4.5400e-003	4.1500e-003	183.6218
Total	0.0887	1.0765	1.0538	6.8100e-003	0.3742	6.4200e-003	0.3806	0.1032	6.1000e-003	0.1093		723.0330	723.0330	0.0227	0.0819	748.0057

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					15.3177	0.0000	15.3177	4.7661	0.0000	4.7661			0.0000			0.0000
Off-Road	3.8257	41.8226	18.2686	0.0568		1.7555	1.7555		1.6151	1.6151	0.0000	5,505.6246	5,505.6246	1.7806		5,550.1404
Total	3.8257	41.8226	18.2686	0.0568	15.3177	1.7555	17.0732	4.7661	1.6151	6.3812	0.0000	5,505.6246	5,505.6246	1.7806		5,550.1404

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0311	1.0364	0.4015	5.0300e-003	0.1730	5.2100e-003	0.1782	0.0498	4.9800e-003	0.0548		540.7627	540.7627	0.0181	0.0778	564.3840
Worker	0.0576	0.0402	0.6523	1.7800e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		182.2703	182.2703	4.5400e-003	4.1500e-003	183.6218
Total	0.0887	1.0765	1.0538	6.8100e-003	0.3742	6.4200e-003	0.3806	0.1032	6.1000e-003	0.1093		723.0330	723.0330	0.0227	0.0819	748.0057

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.2321	0.0000	27.2321	5.6004	0.0000	5.6004			0.0000			0.0000
Off-Road	3.9073	41.6934	28.0758	0.0715		1.6703	1.6703		1.5367	1.5367		6,924.8682	6,924.8682	2.2396		6,980.8593
Total	3.9073	41.6934	28.0758	0.0715	27.2321	1.6703	28.9024	5.6004	1.5367	7.1371		6,924.8682	6,924.8682	2.2396		6,980.8593

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0771	2.5717	0.9963	0.0125	0.4292	0.0129	0.4421	0.1236	0.0124	0.1359		1,341.8926	1,341.8926	0.0450	0.1929	1,400.5084
Worker	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242
Total	0.1412	2.6163	1.7210	0.0145	0.6527	0.0143	0.6670	0.1829	0.0136	0.1965		1,544.4151	1,544.4151	0.0500	0.1975	1,604.5326

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					10.6205	0.0000	10.6205	2.1842	0.0000	2.1842			0.0000			0.0000
Off-Road	3.9073	41.6934	28.0758	0.0715		1.6703	1.6703		1.5367	1.5367	0.0000	6,924.8682	6,924.8682	2.2396		6,980.8593
Total	3.9073	41.6934	28.0758	0.0715	10.6205	1.6703	12.2909	2.1842	1.5367	3.7209	0.0000	6,924.8682	6,924.8682	2.2396		6,980.8593

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0771	2.5717	0.9963	0.0125	0.4292	0.0129	0.4421	0.1236	0.0124	0.1359		1,341.8926	1,341.8926	0.0450	0.1929	1,400.5084
Worker	0.0640	0.0447	0.7248	1.9800e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		202.5226	202.5226	5.0400e-003	4.6200e-003	204.0242
Total	0.1412	2.6163	1.7210	0.0145	0.6527	0.0143	0.6670	0.1829	0.0136	0.1965		1,544.4151	1,544.4151	0.0500	0.1975	1,604.5326

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.1037	52.4088	34.6941	0.0860		2.2337	2.2337		2.0843	2.0843		8,216.4785	8,216.4785	2.2203		8,271.9848
Total	5.1037	52.4088	34.6941	0.0860		2.2337	2.2337		2.0843	2.0843		8,216.4785	8,216.4785	2.2203		8,271.9848

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1635	5.4504	2.1115	0.0264	0.9096	0.0274	0.9370	0.2619	0.0262	0.2881		2,844.011 1	2,844.011 1	0.0953	0.4089	2,968.241 7
Worker	2.2992	1.6030	26.0184	0.0710	8.0256	0.0484	8.0740	2.1284	0.0446	2.1730		7,270.559 8	7,270.559 8	0.1811	0.1657	7,324.467 7
Total	2.4627	7.0534	28.1299	0.0975	8.9351	0.0758	9.0110	2.3903	0.0708	2.4611		10,114.57 09	10,114.57 09	0.2764	0.5746	10,292.70 95

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	5.1037	52.4088	34.6941	0.0860		2.2337	2.2337		2.0843	2.0843	0.0000	8,216.478 5	8,216.478 5	2.2203		8,271.984 8
Total	5.1037	52.4088	34.6941	0.0860		2.2337	2.2337		2.0843	2.0843	0.0000	8,216.478 5	8,216.478 5	2.2203		8,271.984 8

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1635	5.4504	2.1115	0.0264	0.9096	0.0274	0.9370	0.2619	0.0262	0.2881		2,844.011 1	2,844.011 1	0.0953	0.4089	2,968.241 7
Worker	2.2992	1.6030	26.0184	0.0710	8.0256	0.0484	8.0740	2.1284	0.0446	2.1730		7,270.559 8	7,270.559 8	0.1811	0.1657	7,324.467 7
Total	2.4627	7.0534	28.1299	0.0975	8.9351	0.0758	9.0110	2.3903	0.0708	2.4611		10,114.57 09	10,114.57 09	0.2764	0.5746	10,292.70 95

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5525	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5525	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181

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	56.3059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	56.5615	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4611	0.3215	5.2182	0.0143	1.6096	9.7100e-003	1.6193	0.4269	8.9400e-003	0.4358		1,458.1624	1,458.1624	0.0363	0.0332	1,468.9740
Total	0.4611	0.3215	5.2182	0.0143	1.6096	9.7100e-003	1.6193	0.4269	8.9400e-003	0.4358		1,458.1624	1,458.1624	0.0363	0.0332	1,468.9740

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	56.3059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	56.5615	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4611	0.3215	5.2182	0.0143	1.6096	9.7100e-003	1.6193	0.4269	8.9400e-003	0.4358		1,458.1624	1,458.1624	0.0363	0.0332	1,468.9740
Total	0.4611	0.3215	5.2182	0.0143	1.6096	9.7100e-003	1.6193	0.4269	8.9400e-003	0.4358		1,458.1624	1,458.1624	0.0363	0.0332	1,468.9740

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Unmitigated	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555

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	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Total	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Total	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555

7.0 Water Detail

7.1 Mitigation Measures Water

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Torrance III (Construction - Unmitigated)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	730.00	1000sqft	16.76	730,000.00	0
Parking Lot	1,212.00	Space	10.91	484,800.00	0
Other Non-Asphalt Surfaces	11.36	Acre	11.36	494,841.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 39.03 acres

Construction Phase - Construction adjusted to be completed by Opening Year 2023

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment -

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

Grading - Analysis conservatively assumes that 20 acres can be disturbed per day

Demolition -

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT - Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction

Architectural Coating - Rule 1113

Vehicle Trips - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstructionPhase	NumDays	55.00	110.00
tblConstructionPhase	NumDays	740.00	160.00
tblConstructionPhase	PhaseEndDate	8/7/2026	12/15/2023
tblConstructionPhase	PhaseEndDate	3/6/2026	12/15/2023
tblConstructionPhase	PhaseEndDate	5/22/2026	12/15/2023
tblConstructionPhase	PhaseStartDate	5/23/2026	7/15/2023
tblConstructionPhase	PhaseStartDate	3/7/2026	10/1/2023
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	T24E	4.21	0.00
tblEnergyUse	T24NG	8.50	0.00
tblGrading	AcresOfGrading	300.00	1,500.00
tblGrading	AcresOfGrading	105.00	600.00
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	905.20	0.00
tblTripsAndVMT	HaulingTripNumber	13,672.00	13,671.00
tblTripsAndVMT	VendorTripNumber	0.00	44.00
tblTripsAndVMT	VendorTripNumber	0.00	27.00
tblTripsAndVMT	VendorTripNumber	0.00	67.00
tblTripsAndVMT	VendorTripNumber	280.00	142.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblWater	IndoorWaterUseRate	168,812,500.00	0.00

2.0 Emissions Summary

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	4.5927	75.7895	32.7968	0.2189	64.4096	2.1704	66.0158	12.3240	1.9972	14.3212	0.0000	23,440.15 30	23,440.15 30	2.0745	3.0919	24,413.40 42
2023	66.3928	72.2071	83.0822	0.2214	39.6504	2.9250	41.4124	12.3240	2.7290	13.9452	0.0000	22,060.55 32	22,060.55 32	3.2758	0.6262	22,329.04 78
Maximum	66.3928	75.7895	83.0822	0.2214	64.4096	2.9250	66.0158	12.3240	2.7290	14.3212	0.0000	23,440.15 30	23,440.15 30	3.2758	3.0919	24,413.40 42

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	4.5927	75.7895	32.7968	0.2189	28.3133	2.1704	29.9195	4.9320	1.9972	6.8665	0.0000	23,440.15 30	23,440.15 30	2.0745	3.0919	24,413.40 42
2023	66.3928	72.2071	83.0822	0.2214	15.6919	2.9250	17.4538	4.8693	2.7290	6.4905	0.0000	22,060.55 32	22,060.55 32	3.2758	0.6262	22,329.04 78
Maximum	66.3928	75.7895	83.0822	0.2214	28.3133	2.9250	29.9195	4.9320	2.7290	6.8665	0.0000	23,440.15 30	23,440.15 30	3.2758	3.0919	24,413.40 42

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	16.7481	1.8200e-003	0.1994	1.0000e-005	0.0000	7.1000e-004	7.1000e-004	0.0000	7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003	0.0000	0.4555

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	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	16.7481	1.8200e-003	0.1994	1.0000e-005	0.0000	7.1000e-004	7.1000e-004	0.0000	7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003	0.0000	0.4555

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	12/9/2022	5	50	
2	Site Preparation	Site Preparation	12/10/2022	1/20/2023	5	30	
3	Grading	Grading	1/21/2023	5/5/2023	5	75	
4	Building Construction	Building Construction	5/6/2023	12/15/2023	5	160	
5	Paving	Paving	10/1/2023	12/15/2023	5	55	
6	Architectural Coating	Architectural Coating	7/15/2023	12/15/2023	5	110	

Acres of Grading (Site Preparation Phase): 600

Acres of Grading (Grading Phase): 1500

Acres of Paving: 22.27

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,095,000; Non-Residential Outdoor: 365,000; Striped Parking Area: 58,778 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	2	8.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Grading	Crawler Tractors	2	8.00	212	0.43
Building Construction	Crawler Tractors	6	8.00	212	0.43

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	44.00	13,671.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	67.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	718.00	142.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	144.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Water Exposed Area

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					59.1742	0.0000	59.1742	8.9595	0.0000	8.9595			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	59.1742	1.2427	60.4169	8.9595	1.1553	10.1148		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2432	47.7841	10.8954	0.1700	4.7859	0.3419	5.1277	1.3121	0.3271	1.6392		18,619.2230	18,619.2230	0.9870	2.9543	19,524.2728
Vendor	0.0856	2.2442	0.7645	8.6200e-003	0.2818	0.0206	0.3024	0.0812	0.0197	0.1009		926.3789	926.3789	0.0309	0.1336	966.9673
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
Total	1.3844	50.0701	12.2028	0.1800	5.2354	0.3636	5.5989	1.4378	0.3478	1.7855		19,693.3719	19,693.3719	1.0221	3.0919	20,640.3121

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					23.0780	0.0000	23.0780	3.4942	0.0000	3.4942			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	23.0780	1.2427	24.3206	3.4942	1.1553	4.6495	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2432	47.7841	10.8954	0.1700	4.7859	0.3419	5.1277	1.3121	0.3271	1.6392		18,619.2230	18,619.2230	0.9870	2.9543	19,524.2728
Vendor	0.0856	2.2442	0.7645	8.6200e-003	0.2818	0.0206	0.3024	0.0812	0.0197	0.1009		926.3789	926.3789	0.0309	0.1336	966.9673
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
Total	1.3844	50.0701	12.2028	0.1800	5.2354	0.3636	5.5989	1.4378	0.3478	1.7855		19,693.3719	19,693.3719	1.0221	3.0919	20,640.3121

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					39.2763	0.0000	39.2763	12.2209	0.0000	12.2209			0.0000			0.0000
Off-Road	4.4735	50.3453	19.9794	0.0569		2.1564	2.1564		1.9839	1.9839		5,508.7626	5,508.7626	1.7817		5,553.3037
Total	4.4735	50.3453	19.9794	0.0569	39.2763	2.1564	41.4327	12.2209	1.9839	14.2048		5,508.7626	5,508.7626	1.7817		5,553.3037

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0525	1.3771	0.4691	5.2900e-003	0.1729	0.0126	0.1856	0.0498	0.0121	0.0619		568.4598	568.4598	0.0189	0.0820	593.3663
Worker	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
Total	0.1192	1.4274	1.1205	7.0300e-003	0.3741	0.0139	0.3881	0.1032	0.0133	0.1164		745.7838	745.7838	0.0241	0.0868	772.2527

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					15.3177	0.0000	15.3177	4.7661	0.0000	4.7661			0.0000			0.0000
Off-Road	4.4735	50.3453	19.9794	0.0569		2.1564	2.1564		1.9839	1.9839	0.0000	5,508.7626	5,508.7626	1.7817		5,553.3037
Total	4.4735	50.3453	19.9794	0.0569	15.3177	2.1564	17.4742	4.7661	1.9839	6.7500	0.0000	5,508.7626	5,508.7626	1.7817		5,553.3037

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0525	1.3771	0.4691	5.2900e-003	0.1729	0.0126	0.1856	0.0498	0.0121	0.0619		568.4598	568.4598	0.0189	0.0820	593.3663
Worker	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
Total	0.1192	1.4274	1.1205	7.0300e-003	0.3741	0.0139	0.3881	0.1032	0.0133	0.1164		745.7838	745.7838	0.0241	0.0868	772.2527

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					39.2763	0.0000	39.2763	12.2209	0.0000	12.2209			0.0000			0.0000
Off-Road	3.8257	41.8226	18.2686	0.0568		1.7555	1.7555		1.6151	1.6151		5,505.6246	5,505.6246	1.7806		5,550.1404
Total	3.8257	41.8226	18.2686	0.0568	39.2763	1.7555	41.0318	12.2209	1.6151	13.8359		5,505.6246	5,505.6246	1.7806		5,550.1404

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0300	1.0851	0.4141	5.0300e-003	0.1730	5.2400e-003	0.1782	0.0498	5.0100e-003	0.0548		541.6748	541.6748	0.0180	0.0780	565.3560
Worker	0.0619	0.0444	0.5996	1.6900e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		172.6608	172.6608	4.6000e-003	4.4400e-003	174.0982
Total	0.0920	1.1294	1.0137	6.7200e-003	0.3742	6.4500e-003	0.3806	0.1032	6.1300e-003	0.1093		714.3356	714.3356	0.0226	0.0824	739.4542

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					15.3177	0.0000	15.3177	4.7661	0.0000	4.7661			0.0000			0.0000
Off-Road	3.8257	41.8226	18.2686	0.0568		1.7555	1.7555		1.6151	1.6151	0.0000	5,505.6246	5,505.6246	1.7806		5,550.1404
Total	3.8257	41.8226	18.2686	0.0568	15.3177	1.7555	17.0732	4.7661	1.6151	6.3812	0.0000	5,505.6246	5,505.6246	1.7806		5,550.1404

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0300	1.0851	0.4141	5.0300e-003	0.1730	5.2400e-003	0.1782	0.0498	5.0100e-003	0.0548		541.6748	541.6748	0.0180	0.0780	565.3560
Worker	0.0619	0.0444	0.5996	1.6900e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		172.6608	172.6608	4.6000e-003	4.4400e-003	174.0982
Total	0.0920	1.1294	1.0137	6.7200e-003	0.3742	6.4500e-003	0.3806	0.1032	6.1300e-003	0.1093		714.3356	714.3356	0.0226	0.0824	739.4542

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					27.2321	0.0000	27.2321	5.6004	0.0000	5.6004			0.0000			0.0000
Off-Road	3.9073	41.6934	28.0758	0.0715		1.6703	1.6703		1.5367	1.5367		6,924.8682	6,924.8682	2.2396		6,980.8593
Total	3.9073	41.6934	28.0758	0.0715	27.2321	1.6703	28.9024	5.6004	1.5367	7.1371		6,924.8682	6,924.8682	2.2396		6,980.8593

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0745	2.6925	1.0276	0.0125	0.4292	0.0130	0.4422	0.1236	0.0124	0.1360		1,344.1560	1,344.1560	0.0448	0.1934	1,402.9204
Worker	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424
Total	0.1433	2.7418	1.6938	0.0144	0.6527	0.0144	0.6671	0.1829	0.0137	0.1965		1,536.0014	1,536.0014	0.0499	0.1984	1,596.3628

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					10.6205	0.0000	10.6205	2.1842	0.0000	2.1842			0.0000			0.0000
Off-Road	3.9073	41.6934	28.0758	0.0715		1.6703	1.6703		1.5367	1.5367	0.0000	6,924.8682	6,924.8682	2.2396		6,980.8593
Total	3.9073	41.6934	28.0758	0.0715	10.6205	1.6703	12.2909	2.1842	1.5367	3.7209	0.0000	6,924.8682	6,924.8682	2.2396		6,980.8593

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0745	2.6925	1.0276	0.0125	0.4292	0.0130	0.4422	0.1236	0.0124	0.1360		1,344.1560	1,344.1560	0.0448	0.1934	1,402.9204
Worker	0.0688	0.0493	0.6662	1.8700e-003	0.2236	1.3500e-003	0.2249	0.0593	1.2400e-003	0.0605		191.8453	191.8453	5.1100e-003	4.9300e-003	193.4424
Total	0.1433	2.7418	1.6938	0.0144	0.6527	0.0144	0.6671	0.1829	0.0137	0.1965		1,536.0014	1,536.0014	0.0499	0.1984	1,596.3628

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	5.1037	52.4088	34.6941	0.0860		2.2337	2.2337		2.0843	2.0843		8,216.4785	8,216.4785	2.2203		8,271.9848
Total	5.1037	52.4088	34.6941	0.0860		2.2337	2.2337		2.0843	2.0843		8,216.4785	8,216.4785	2.2203		8,271.9848

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1579	5.7065	2.1779	0.0265	0.9096	0.0276	0.9371	0.2619	0.0264	0.2883		2,848.808 3	2,848.808 3	0.0949	0.4100	2,973.353 7
Worker	2.4703	1.7707	23.9152	0.0673	8.0256	0.0484	8.0740	2.1284	0.0446	2.1730		6,887.247 8	6,887.247 8	0.1836	0.1770	6,944.583 2
Total	2.6282	7.4772	26.0931	0.0938	8.9351	0.0760	9.0111	2.3903	0.0710	2.4613		9,736.056 1	9,736.056 1	0.2784	0.5870	9,917.936 8

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	5.1037	52.4088	34.6941	0.0860		2.2337	2.2337		2.0843	2.0843	0.0000	8,216.478 5	8,216.478 5	2.2203		8,271.984 8
Total	5.1037	52.4088	34.6941	0.0860		2.2337	2.2337		2.0843	2.0843	0.0000	8,216.478 5	8,216.478 5	2.2203		8,271.984 8

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1579	5.7065	2.1779	0.0265	0.9096	0.0276	0.9371	0.2619	0.0264	0.2883		2,848.808 3	2,848.808 3	0.0949	0.4100	2,973.353 7
Worker	2.4703	1.7707	23.9152	0.0673	8.0256	0.0484	8.0740	2.1284	0.0446	2.1730		6,887.247 8	6,887.247 8	0.1836	0.1770	6,944.583 2
Total	2.6282	7.4772	26.0931	0.0938	8.9351	0.0760	9.0111	2.3903	0.0710	2.4613		9,736.056 1	9,736.056 1	0.2784	0.5870	9,917.936 8

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5525	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5525	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818

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	56.3059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	56.5615	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4954	0.3551	4.7964	0.0135	1.6096	9.7100e-003	1.6193	0.4269	8.9400e-003	0.4358		1,381.2865	1,381.2865	0.0368	0.0355	1,392.7855
Total	0.4954	0.3551	4.7964	0.0135	1.6096	9.7100e-003	1.6193	0.4269	8.9400e-003	0.4358		1,381.2865	1,381.2865	0.0368	0.0355	1,392.7855

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	56.3059					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	56.5615	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.4954	0.3551	4.7964	0.0135	1.6096	9.7100e-003	1.6193	0.4269	8.9400e-003	0.4358		1,381.2865	1,381.2865	0.0368	0.0355	1,392.7855
Total	0.4954	0.3551	4.7964	0.0135	1.6096	9.7100e-003	1.6193	0.4269	8.9400e-003	0.4358		1,381.2865	1,381.2865	0.0368	0.0355	1,392.7855

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Unmitigated	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555

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	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Total	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0185	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555
Total	16.7481	1.8200e-003	0.1994	1.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004		0.4275	0.4275	1.1200e-003		0.4555

7.0 Water Detail

7.1 Mitigation Measures Water

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Torrance III (Construction - Unmitigated)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	730.00	1000sqft	16.76	730,000.00	0
Parking Lot	1,212.00	Space	10.91	484,800.00	0
Other Non-Asphalt Surfaces	11.36	Acre	11.36	494,841.60	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 39.03 acres

Construction Phase - Construction adjusted to be completed by Opening Year 2023

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment - Crawler Tractors used in lieu of Tractors/Loaders/Backhoes

Off-road Equipment -

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

Grading - Analysis conservatively assumes that 20 acres can be disturbed per day

Demolition -

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Trips and VMT - Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction

Architectural Coating - Rule 1113

Vehicle Trips - Construction run only

Energy Use - Construction run only

Water And Wastewater - Construction run only

Solid Waste - Construction run only

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblConstructionPhase	NumDays	55.00	110.00
tblConstructionPhase	NumDays	740.00	160.00
tblConstructionPhase	PhaseEndDate	8/7/2026	12/15/2023
tblConstructionPhase	PhaseEndDate	3/6/2026	12/15/2023
tblConstructionPhase	PhaseEndDate	5/22/2026	12/15/2023
tblConstructionPhase	PhaseStartDate	5/23/2026	7/15/2023
tblConstructionPhase	PhaseStartDate	3/7/2026	10/1/2023
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	T24E	4.21	0.00
tblEnergyUse	T24NG	8.50	0.00
tblGrading	AcresOfGrading	300.00	1,500.00
tblGrading	AcresOfGrading	105.00	600.00
tblOffRoadEquipment	LoadFactor	0.43	0.43
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	905.20	0.00
tblTripsAndVMT	HaulingTripNumber	13,672.00	13,671.00
tblTripsAndVMT	VendorTripNumber	0.00	44.00
tblTripsAndVMT	VendorTripNumber	0.00	27.00
tblTripsAndVMT	VendorTripNumber	0.00	67.00
tblTripsAndVMT	VendorTripNumber	280.00	142.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TTP	28.00	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	13.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	PB_TP	2.00	0.00
tblVehicleTrips	PR_TP	79.00	0.00
tblVehicleTrips	ST_TR	2.54	0.00
tblVehicleTrips	SU_TR	1.24	0.00
tblVehicleTrips	WD_TR	3.37	0.00
tblWater	IndoorWaterUseRate	168,812,500.00	0.00

2.0 Emissions Summary

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1353	2.2981	0.9754	5.9500e-003	2.0644	0.0564	2.1208	0.3690	0.0525	0.4215	0.0000	574.1599	574.1599	0.0594	0.0707	596.7138
2023	3.9646	7.1810	6.9888	0.0198	2.2940	0.2809	2.5749	0.5385	0.2613	0.7998	0.0000	1,787.7647	1,787.7647	0.2924	0.0520	1,810.5598
Maximum	3.9646	7.1810	6.9888	0.0198	2.2940	0.2809	2.5749	0.5385	0.2613	0.7998	0.0000	1,787.7647	1,787.7647	0.2924	0.0707	1,810.5598

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	0.1353	2.2981	0.9754	5.9500e-003	0.8853	0.0564	0.9417	0.1660	0.0525	0.2185	0.0000	574.1597	574.1597	0.0594	0.0707	596.7137
2023	3.9646	7.1810	6.9888	0.0198	1.3943	0.2809	1.6753	0.3440	0.2613	0.6053	0.0000	1,787.7636	1,787.7636	0.2924	0.0520	1,810.5587
Maximum	3.9646	7.1810	6.9888	0.0198	1.3943	0.2809	1.6753	0.3440	0.2613	0.6053	0.0000	1,787.7636	1,787.7636	0.2924	0.0707	1,810.5587

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	47.70	0.00	44.27	43.81	0.00	32.55	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-3-2022	1-2-2023	2.4147	2.4147
2	1-3-2023	4-2-2023	1.5480	1.5480
3	4-3-2023	7-2-2023	1.9584	1.9584
4	7-3-2023	9-30-2023	3.8003	3.8003
		Highest	3.8003	3.8003

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0555	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.0555	2.3000e-004	0.0249	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0555	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.0555	2.3000e-004	0.0249	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	12/9/2022	5	50	
2	Site Preparation	Site Preparation	12/10/2022	1/20/2023	5	30	
3	Grading	Grading	1/21/2023	5/5/2023	5	75	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	Building Construction	Building Construction	5/6/2023	12/15/2023	5	160
5	Paving	Paving	10/1/2023	12/15/2023	5	55
6	Architectural Coating	Architectural Coating	7/15/2023	12/15/2023	5	110

Acres of Grading (Site Preparation Phase): 600

Acres of Grading (Grading Phase): 1500

Acres of Paving: 22.27

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,095,000; Non-Residential Outdoor: 365,000; Striped Parking Area: 58,778 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	2	8.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	6	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Site Preparation	Crawler Tractors	4	8.00	212	0.43
Grading	Crawler Tractors	2	8.00	212	0.43
Building Construction	Crawler Tractors	6	8.00	212	0.43

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	44.00	13,671.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	67.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	718.00	142.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	144.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					1.4794	0.0000	1.4794	0.2240	0.0000	0.2240	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0660	0.6430	0.5149	9.7000e-004		0.0311	0.0311		0.0289	0.0289	0.0000	84.9756	84.9756	0.0239	0.0000	85.5723
Total	0.0660	0.6430	0.5149	9.7000e-004	1.4794	0.0311	1.5104	0.2240	0.0289	0.2529	0.0000	84.9756	84.9756	0.0239	0.0000	85.5723

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	0.0315	1.2091	0.2696	4.2500e-003	0.1176	8.5400e-003	0.1261	0.0323	8.1700e-003	0.0405	0.0000	422.2050	422.2050	0.0224	0.0670	442.7285
Vendor	2.1500e-003	0.0566	0.0188	2.2000e-004	6.9300e-003	5.1000e-004	7.4500e-003	2.0000e-003	4.9000e-004	2.4900e-003	0.0000	21.0054	21.0054	7.0000e-004	3.0300e-003	21.9258
Worker	1.2900e-003	1.0700e-003	0.0139	4.0000e-005	4.1100e-003	3.0000e-005	4.1400e-003	1.0900e-003	2.0000e-005	1.1200e-003	0.0000	3.4015	3.4015	1.0000e-004	9.0000e-005	3.4315
Total	0.0350	1.2668	0.3022	4.5100e-003	0.1286	9.0800e-003	0.1377	0.0354	8.6800e-003	0.0441	0.0000	446.6118	446.6118	0.0232	0.0701	468.0858

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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					0.5770	0.0000	0.5770	0.0874	0.0000	0.0874	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0660	0.6430	0.5149	9.7000e-004		0.0311	0.0311		0.0289	0.0289	0.0000	84.9755	84.9755	0.0239	0.0000	85.5722
Total	0.0660	0.6430	0.5149	9.7000e-004	0.5770	0.0311	0.6080	0.0874	0.0289	0.1162	0.0000	84.9755	84.9755	0.0239	0.0000	85.5722

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	0.0315	1.2091	0.2696	4.2500e-003	0.1176	8.5400e-003	0.1261	0.0323	8.1700e-003	0.0405	0.0000	422.2050	422.2050	0.0224	0.0670	442.7285
Vendor	2.1500e-003	0.0566	0.0188	2.2000e-004	6.9300e-003	5.1000e-004	7.4500e-003	2.0000e-003	4.9000e-004	2.4900e-003	0.0000	21.0054	21.0054	7.0000e-004	3.0300e-003	21.9258
Worker	1.2900e-003	1.0700e-003	0.0139	4.0000e-005	4.1100e-003	3.0000e-005	4.1400e-003	1.0900e-003	2.0000e-005	1.1200e-003	0.0000	3.4015	3.4015	1.0000e-004	9.0000e-005	3.4315
Total	0.0350	1.2668	0.3022	4.5100e-003	0.1286	9.0800e-003	0.1377	0.0354	8.6800e-003	0.0441	0.0000	446.6118	446.6118	0.0232	0.0701	468.0858

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					0.4537	0.0000	0.4537	0.1088	0.0000	0.1088	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0336	0.3776	0.1499	4.3000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	37.4810	37.4810	0.0121	0.0000	37.7840
Total	0.0336	0.3776	0.1499	4.3000e-004	0.4537	0.0162	0.4698	0.1088	0.0149	0.1237	0.0000	37.4810	37.4810	0.0121	0.0000	37.7840

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	4.0000e-004	0.0104	3.4500e-003	4.0000e-005	1.2800e-003	9.0000e-005	1.3700e-003	3.7000e-004	9.0000e-005	4.6000e-004	0.0000	3.8669	3.8669	1.3000e-004	5.6000e-004	4.0364
Worker	4.6000e-004	3.9000e-004	5.0100e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2245	1.2245	3.0000e-005	3.0000e-005	1.2353
Total	8.6000e-004	0.0108	8.4600e-003	5.0000e-005	2.7600e-003	1.0000e-004	2.8600e-003	7.6000e-004	1.0000e-004	8.6000e-004	0.0000	5.0914	5.0914	1.6000e-004	5.9000e-004	5.2717

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Site Preparation - 2022

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					0.1769	0.0000	0.1769	0.0424	0.0000	0.0424	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0336	0.3776	0.1499	4.3000e-004		0.0162	0.0162		0.0149	0.0149	0.0000	37.4810	37.4810	0.0121	0.0000	37.7840
Total	0.0336	0.3776	0.1499	4.3000e-004	0.1769	0.0162	0.1931	0.0424	0.0149	0.0573	0.0000	37.4810	37.4810	0.0121	0.0000	37.7840

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	4.0000e-004	0.0104	3.4500e-003	4.0000e-005	1.2800e-003	9.0000e-005	1.3700e-003	3.7000e-004	9.0000e-005	4.6000e-004	0.0000	3.8669	3.8669	1.3000e-004	5.6000e-004	4.0364
Worker	4.6000e-004	3.9000e-004	5.0100e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2245	1.2245	3.0000e-005	3.0000e-005	1.2353
Total	8.6000e-004	0.0108	8.4600e-003	5.0000e-005	2.7600e-003	1.0000e-004	2.8600e-003	7.6000e-004	1.0000e-004	8.6000e-004	0.0000	5.0914	5.0914	1.6000e-004	5.9000e-004	5.2717

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3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4537	0.0000	0.4537	0.1088	0.0000	0.1088	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0287	0.3137	0.1370	4.3000e-004		0.0132	0.0132		0.0121	0.0121	0.0000	37.4596	37.4596	0.0121	0.0000	37.7625
Total	0.0287	0.3137	0.1370	4.3000e-004	0.4537	0.0132	0.4668	0.1088	0.0121	0.1209	0.0000	37.4596	37.4596	0.0121	0.0000	37.7625

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	2.3000e-004	8.1600e-003	3.0500e-003	4.0000e-005	1.2800e-003	4.0000e-005	1.3200e-003	3.7000e-004	4.0000e-005	4.1000e-004	0.0000	3.6819	3.6819	1.2000e-004	5.3000e-004	3.8429
Worker	4.3000e-004	3.4000e-004	4.6100e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.1923	1.1923	3.0000e-005	3.0000e-005	1.2022
Total	6.6000e-004	8.5000e-003	7.6600e-003	5.0000e-005	2.7600e-003	5.0000e-005	2.8100e-003	7.6000e-004	5.0000e-005	8.1000e-004	0.0000	4.8742	4.8742	1.5000e-004	5.6000e-004	5.0451

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3.3 Site Preparation - 2023

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					0.1769	0.0000	0.1769	0.0424	0.0000	0.0424	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0287	0.3137	0.1370	4.3000e-004		0.0132	0.0132		0.0121	0.0121	0.0000	37.4596	37.4596	0.0121	0.0000	37.7625
Total	0.0287	0.3137	0.1370	4.3000e-004	0.1769	0.0132	0.1901	0.0424	0.0121	0.0546	0.0000	37.4596	37.4596	0.0121	0.0000	37.7625

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	2.3000e-004	8.1600e-003	3.0500e-003	4.0000e-005	1.2800e-003	4.0000e-005	1.3200e-003	3.7000e-004	4.0000e-005	4.1000e-004	0.0000	3.6819	3.6819	1.2000e-004	5.3000e-004	3.8429
Worker	4.3000e-004	3.4000e-004	4.6100e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.1923	1.1923	3.0000e-005	3.0000e-005	1.2022
Total	6.6000e-004	8.5000e-003	7.6600e-003	5.0000e-005	2.7600e-003	5.0000e-005	2.8100e-003	7.6000e-004	5.0000e-005	8.1000e-004	0.0000	4.8742	4.8742	1.5000e-004	5.6000e-004	5.0451

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3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0212	0.0000	1.0212	0.2100	0.0000	0.2100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1465	1.5635	1.0528	2.6800e-003		0.0626	0.0626		0.0576	0.0576	0.0000	235.5801	235.5801	0.0762	0.0000	237.4848
Total	0.1465	1.5635	1.0528	2.6800e-003	1.0212	0.0626	1.0838	0.2100	0.0576	0.2677	0.0000	235.5801	235.5801	0.0762	0.0000	237.4848

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	2.8400e-003	0.1013	0.0379	4.7000e-004	0.0158	4.9000e-004	0.0163	4.5700e-003	4.6000e-004	5.0400e-003	0.0000	45.6828	45.6828	1.5300e-003	6.5700e-003	47.6802
Worker	2.3800e-003	1.8900e-003	0.0256	7.0000e-005	8.2200e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	6.6238	6.6238	1.7000e-004	1.7000e-004	6.6789
Total	5.2200e-003	0.1031	0.0635	5.4000e-004	0.0241	5.4000e-004	0.0246	6.7500e-003	5.1000e-004	7.2700e-003	0.0000	52.3067	52.3067	1.7000e-003	6.7400e-003	54.3591

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2023

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					0.3983	0.0000	0.3983	0.0819	0.0000	0.0819	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1465	1.5635	1.0528	2.6800e-003		0.0626	0.0626		0.0576	0.0576	0.0000	235.5798	235.5798	0.0762	0.0000	237.4846
Total	0.1465	1.5635	1.0528	2.6800e-003	0.3983	0.0626	0.4609	0.0819	0.0576	0.1395	0.0000	235.5798	235.5798	0.0762	0.0000	237.4846

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	2.8400e-003	0.1013	0.0379	4.7000e-004	0.0158	4.9000e-004	0.0163	4.5700e-003	4.6000e-004	5.0400e-003	0.0000	45.6828	45.6828	1.5300e-003	6.5700e-003	47.6802
Worker	2.3800e-003	1.8900e-003	0.0256	7.0000e-005	8.2200e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003	0.0000	6.6238	6.6238	1.7000e-004	1.7000e-004	6.6789
Total	5.2200e-003	0.1031	0.0635	5.4000e-004	0.0241	5.4000e-004	0.0246	6.7500e-003	5.1000e-004	7.2700e-003	0.0000	52.3067	52.3067	1.7000e-003	6.7400e-003	54.3591

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3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4083	4.1927	2.7755	6.8800e-003		0.1787	0.1787		0.1668	0.1668	0.0000	596.3091	596.3091	0.1611	0.0000	600.3375
Total	0.4083	4.1927	2.7755	6.8800e-003		0.1787	0.1787		0.1668	0.1668	0.0000	596.3091	596.3091	0.1611	0.0000	600.3375

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	0.0128	0.4578	0.1714	2.1200e-003	0.0716	2.2000e-003	0.0738	0.0207	2.1000e-003	0.0228	0.0000	206.5501	206.5501	6.9000e-003	0.0297	215.5809
Worker	0.1824	0.1448	1.9623	5.4600e-003	0.6294	3.8700e-003	0.6333	0.1672	3.5700e-003	0.1707	0.0000	507.2966	507.2966	0.0133	0.0130	511.5161
Total	0.1952	0.6026	2.1337	7.5800e-003	0.7010	6.0700e-003	0.7071	0.1878	5.6700e-003	0.1935	0.0000	713.8466	713.8466	0.0202	0.0428	727.0970

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3.5 Building Construction - 2023

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	0.4083	4.1927	2.7755	6.8800e-003		0.1787	0.1787		0.1668	0.1668	0.0000	596.3084	596.3084	0.1611	0.0000	600.3368
Total	0.4083	4.1927	2.7755	6.8800e-003		0.1787	0.1787		0.1668	0.1668	0.0000	596.3084	596.3084	0.1611	0.0000	600.3368

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	0.0128	0.4578	0.1714	2.1200e-003	0.0716	2.2000e-003	0.0738	0.0207	2.1000e-003	0.0228	0.0000	206.5501	206.5501	6.9000e-003	0.0297	215.5809
Worker	0.1824	0.1448	1.9623	5.4600e-003	0.6294	3.8700e-003	0.6333	0.1672	3.5700e-003	0.1707	0.0000	507.2966	507.2966	0.0133	0.0130	511.5161
Total	0.1952	0.6026	2.1337	7.5800e-003	0.7010	6.0700e-003	0.7071	0.1878	5.6700e-003	0.1935	0.0000	713.8466	713.8466	0.0202	0.0428	727.0970

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0739	55.0739	0.0178	0.0000	55.5192
Paving	0.0143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0427	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0739	55.0739	0.0178	0.0000	55.5192

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	1.3100e-003	1.0400e-003	0.0141	4.0000e-005	4.5200e-003	3.0000e-005	4.5500e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.6431	3.6431	1.0000e-004	9.0000e-005	3.6734
Total	1.3100e-003	1.0400e-003	0.0141	4.0000e-005	4.5200e-003	3.0000e-005	4.5500e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.6431	3.6431	1.0000e-004	9.0000e-005	3.6734

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3.6 Paving - 2023

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	0.0284	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0738	55.0738	0.0178	0.0000	55.5191
Paving	0.0143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0427	0.2803	0.4011	6.3000e-004		0.0140	0.0140		0.0129	0.0129	0.0000	55.0738	55.0738	0.0178	0.0000	55.5191

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	1.3100e-003	1.0400e-003	0.0141	4.0000e-005	4.5200e-003	3.0000e-005	4.5500e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.6431	3.6431	1.0000e-004	9.0000e-005	3.6734
Total	1.3100e-003	1.0400e-003	0.0141	4.0000e-005	4.5200e-003	3.0000e-005	4.5500e-003	1.2000e-003	3.0000e-005	1.2300e-003	0.0000	3.6431	3.6431	1.0000e-004	9.0000e-005	3.6734

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	3.0968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0141	0.0956	0.1328	2.2000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	18.7239	18.7239	1.1200e-003	0.0000	18.7519
Total	3.1109	0.0956	0.1328	2.2000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	18.7239	18.7239	1.1200e-003	0.0000	18.7519

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	0.0252	0.0200	0.2706	7.5000e-004	0.0868	5.3000e-004	0.0873	0.0231	4.9000e-004	0.0235	0.0000	69.9476	69.9476	1.8400e-003	1.8000e-003	70.5294
Total	0.0252	0.0200	0.2706	7.5000e-004	0.0868	5.3000e-004	0.0873	0.0231	4.9000e-004	0.0235	0.0000	69.9476	69.9476	1.8400e-003	1.8000e-003	70.5294

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.0968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0141	0.0956	0.1328	2.2000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	18.7238	18.7238	1.1200e-003	0.0000	18.7518
Total	3.1109	0.0956	0.1328	2.2000e-004		5.1900e-003	5.1900e-003		5.1900e-003	5.1900e-003	0.0000	18.7238	18.7238	1.1200e-003	0.0000	18.7518

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	0.0252	0.0200	0.2706	7.5000e-004	0.0868	5.3000e-004	0.0873	0.0231	4.9000e-004	0.0235	0.0000	69.9476	69.9476	1.8400e-003	1.8000e-003	70.5294
Total	0.0252	0.0200	0.2706	7.5000e-004	0.0868	5.3000e-004	0.0873	0.0231	4.9000e-004	0.0235	0.0000	69.9476	69.9476	1.8400e-003	1.8000e-003	70.5294

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0555	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517
Unmitigated	3.0555	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517

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	0.3520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3100e-003	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517
Total	3.0555	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3100e-003	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517
Total	3.0555	2.3000e-004	0.0249	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.0485	0.0485	1.3000e-004	0.0000	0.0517

7.0 Water Detail

7.1 Mitigation Measures Water

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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Torrance III (Construction - Unmitigated) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

11.0 Vegetation

ATTACHMENT B:

CALEEMOD PROPOSED PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Torrance III (Operations)
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	730.00	1000sqft	16.76	730,000.00	0
User Defined Industrial	730.00	User Defined Unit	0.00	0.00	0
Other Non-Asphalt Surfaces	11.36	Acre	11.36	494,841.60	0
Parking Lot	1,212.00	Space	10.91	484,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 39.03 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

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

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	0.00
tblFleetMix	HHD	8.0120e-003	0.00
tblFleetMix	HHD	8.0120e-003	0.85
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.06
tblFleetMix	LHD2	6.0830e-003	0.00
tblFleetMix	LHD2	6.0830e-003	0.02
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.07
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleTrips	CW_TL	16.60	21.89
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	2.54	2.21
tblVehicleTrips	ST_TR	0.00	0.33
tblVehicleTrips	SU_TR	1.24	1.08
tblVehicleTrips	SU_TR	0.00	0.16
tblVehicleTrips	WD_TR	3.37	2.93
tblVehicleTrips	WD_TR	0.00	0.44

2.0 Emissions Summary

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Energy	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
Mobile	8.1286	44.9119	90.8014	0.3512	23.8875	0.3622	24.2497	6.3989	0.3428	6.7417		37,267.0525	37,267.0525	2.0024	3.6648	38,409.2102
Offroad	0.3310	3.1082	2.2476	9.5000e-003		0.1128	0.1128		0.1038	0.1038	0.0000	919.6353	919.6353	0.2974		927.0710
Total	25.4098	49.7971	94.8135	0.3713	23.8875	0.6108	24.4983	6.3989	0.5824	6.9813	0.0000	40,316.6869	40,316.6869	2.3421	3.7038	41,478.9727

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Energy	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
Mobile	8.1286	44.9119	90.8014	0.3512	23.8875	0.3622	24.2497	6.3989	0.3428	6.7417		37,267.0525	37,267.0525	2.0024	3.6648	38,409.2102
Offroad	0.3310	3.1082	2.2476	9.5000e-003		0.1128	0.1128		0.1038	0.1038	0.0000	919.6353	919.6353	0.2974		927.0710
Total	25.4098	49.7971	94.8135	0.3713	23.8875	0.6108	24.4983	6.3989	0.5824	6.9813	0.0000	40,316.6869	40,316.6869	2.3421	3.7038	41,478.9727

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	10/2/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.1286	44.9119	90.8014	0.3512	23.8875	0.3622	24.2497	6.3989	0.3428	6.7417		37,267.0525	37,267.0525	2.0024	3.6648	38,409.2102
Unmitigated	8.1286	44.9119	90.8014	0.3512	23.8875	0.3622	24.2497	6.3989	0.3428	6.7417		37,267.0525	37,267.0525	2.0024	3.6648	38,409.2102

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	2,140.29	1,613.15	787.52	7,443,660	7,443,660
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	319.81	241.05	117.68	2,228,510	2,228,510
Total	2,460.10	1,854.20	905.20	9,672,169	9,672,169

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	21.89	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.575400	0.066400	0.198000	0.134400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025800	0.000000	0.000000
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.061800	0.016300	0.071900	0.850000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
NaturalGas Unmitigated	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Industrial Park	18100	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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		0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	18.1	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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		0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Unmitigated	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258

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	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0254	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Total	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0254	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Total	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

Torrance III (Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.3310	3.1082	2.2476	9.5000e-003		0.1128	0.1128		0.1038	0.1038	0.0000	919.6353	919.6353	0.2974		927.0710
Total	0.3310	3.1082	2.2476	9.5000e-003		0.1128	0.1128		0.1038	0.1038	0.0000	919.6353	919.6353	0.2974		927.0710

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Torrance III (Operations)
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	730.00	1000sqft	16.76	730,000.00	0
User Defined Industrial	730.00	User Defined Unit	0.00	0.00	0
Other Non-Asphalt Surfaces	11.36	Acre	11.36	494,841.60	0
Parking Lot	1,212.00	Space	10.91	484,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 39.03 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

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

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	0.00
tblFleetMix	HHD	8.0120e-003	0.00
tblFleetMix	HHD	8.0120e-003	0.85
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.06
tblFleetMix	LHD2	6.0830e-003	0.00
tblFleetMix	LHD2	6.0830e-003	0.02
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.07
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleTrips	CW_TL	16.60	21.89
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	2.54	2.21
tblVehicleTrips	ST_TR	0.00	0.33
tblVehicleTrips	SU_TR	1.24	1.08
tblVehicleTrips	SU_TR	0.00	0.16
tblVehicleTrips	WD_TR	3.37	2.93
tblVehicleTrips	WD_TR	0.00	0.44

2.0 Emissions Summary

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Energy	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
Mobile	7.9798	47.1744	88.4826	0.3433	23.8875	0.3628	24.2503	6.3989	0.3434	6.7422		36,464.5246	36,464.5246	2.0291	3.7003	37,617.9332
Offroad	0.3310	3.1082	2.2476	9.5000e-003		0.1128	0.1128		0.1038	0.1038	0.0000	919.6353	919.6353	0.2974		927.0710
Total	25.2610	52.0597	92.4947	0.3635	23.8875	0.6114	24.4989	6.3989	0.5830	6.9818	0.0000	39,514.1590	39,514.1590	2.3689	3.7393	40,687.6958

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Energy	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
Mobile	7.9798	47.1744	88.4826	0.3433	23.8875	0.3628	24.2503	6.3989	0.3434	6.7422		36,464.5246	36,464.5246	2.0291	3.7003	37,617.9332
Offroad	0.3310	3.1082	2.2476	9.5000e-003		0.1128	0.1128		0.1038	0.1038	0.0000	919.6353	919.6353	0.2974		927.0710
Total	25.2610	52.0597	92.4947	0.3635	23.8875	0.6114	24.4989	6.3989	0.5830	6.9818	0.0000	39,514.1590	39,514.1590	2.3689	3.7393	40,687.6958

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	10/2/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.9798	47.1744	88.4826	0.3433	23.8875	0.3628	24.2503	6.3989	0.3434	6.7422		36,464.52 46	36,464.52 46	2.0291	3.7003	37,617.93 32
Unmitigated	7.9798	47.1744	88.4826	0.3433	23.8875	0.3628	24.2503	6.3989	0.3434	6.7422		36,464.52 46	36,464.52 46	2.0291	3.7003	37,617.93 32

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	2,140.29	1,613.15	787.52	7,443,660	7,443,660
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	319.81	241.05	117.68	2,228,510	2,228,510
Total	2,460.10	1,854.20	905.20	9,672,169	9,672,169

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	21.89	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.575400	0.066400	0.198000	0.134400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025800	0.000000	0.000000
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.061800	0.016300	0.071900	0.850000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
NaturalGas Unmitigated	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Industrial Park	18100	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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		0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Industrial Park	18.1	0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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		0.1952	1.7745	1.4906	0.0107		0.1349	0.1349		0.1349	0.1349		2,129.4118	2,129.4118	0.0408	0.0390	2,142.0658

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Unmitigated	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258

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	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0254	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Total	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.8010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0254	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258
Total	16.7550	2.4900e-003	0.2739	2.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004		0.5873	0.5873	1.5400e-003		0.6258

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

Torrance III (Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.3310	3.1082	2.2476	9.5000e-003		0.1128	0.1128		0.1038	0.1038	0.0000	919.6353	919.6353	0.2974		927.0710
Total	0.3310	3.1082	2.2476	9.5000e-003		0.1128	0.1128		0.1038	0.1038	0.0000	919.6353	919.6353	0.2974		927.0710

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Torrance III (Operations)
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	730.00	1000sqft	16.76	730,000.00	0
User Defined Industrial	730.00	User Defined Unit	0.00	0.00	0
Other Non-Asphalt Surfaces	11.36	Acre	11.36	494,841.60	0
Parking Lot	1,212.00	Space	10.91	484,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Project Area is 39.03 acres

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Vehicle Trips - Trip characteristics based on information provided in the Traffic analysis

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

Fleet Mix - Passenger Car Mix estimated based on the CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, & MCY). Truck Mix based on information in the Traffic analysis

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	0.00
tblFleetMix	HHD	8.0120e-003	0.00
tblFleetMix	HHD	8.0120e-003	0.85
tblFleetMix	LDA	0.54	0.58
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.07
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.19	0.20
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.06
tblFleetMix	LHD2	6.0830e-003	0.00
tblFleetMix	LHD2	6.0830e-003	0.02
tblFleetMix	MCY	0.02	0.03
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.13
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MH	3.3740e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.07
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	OBUS	9.2500e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	SBUS	6.9800e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblFleetMix	UBUS	6.1100e-004	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	3.00
tblVehicleTrips	CW_TL	16.60	21.89
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	2.54	2.21
tblVehicleTrips	ST_TR	0.00	0.33
tblVehicleTrips	SU_TR	1.24	1.08
tblVehicleTrips	SU_TR	0.00	0.16
tblVehicleTrips	WD_TR	3.37	2.93
tblVehicleTrips	WD_TR	0.00	0.44

2.0 Emissions Summary

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

		Highest		
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0563	3.1000e-004	0.0342	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0666	0.0666	1.7000e-004	0.0000	0.0710
Energy	0.0356	0.3239	0.2720	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	2,129.0857	2,129.0857	0.1567	0.0246	2,140.3456
Mobile	1.2559	7.5848	14.2086	0.0549	3.7298	0.0576	3.7874	1.0007	0.0545	1.0553	0.0000	5,289.1003	5,289.1003	0.2923	0.5344	5,455.6456
Offroad	0.0604	0.5673	0.4102	1.7300e-003		0.0206	0.0206		0.0189	0.0189	0.0000	152.2558	152.2558	0.0492	0.0000	153.4868
Waste						0.0000	0.0000		0.0000	0.0000	183.7474	0.0000	183.7474	10.8592	0.0000	455.2265
Water						0.0000	0.0000		0.0000	0.0000	53.5564	389.8246	443.3810	5.5337	0.1339	621.6167
Total	4.4082	8.4763	14.9250	0.0586	3.7298	0.1029	3.8327	1.0007	0.0982	1.0989	237.3038	7,960.3329	8,197.6367	16.8912	0.6929	8,826.3921

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.0563	3.1000e-004	0.0342	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0666	0.0666	1.7000e-004	0.0000	0.0710
Energy	0.0356	0.3239	0.2720	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	2,129.0857	2,129.0857	0.1567	0.0246	2,140.3456
Mobile	1.2559	7.5848	14.2086	0.0549	3.7298	0.0576	3.7874	1.0007	0.0545	1.0553	0.0000	5,289.1003	5,289.1003	0.2923	0.5344	5,455.6456
Offroad	0.0604	0.5673	0.4102	1.7300e-003		0.0206	0.0206		0.0189	0.0189	0.0000	152.2558	152.2558	0.0492	0.0000	153.4868
Waste						0.0000	0.0000		0.0000	0.0000	183.7474	0.0000	183.7474	10.8592	0.0000	455.2265
Water						0.0000	0.0000		0.0000	0.0000	53.5564	389.8246	443.3810	5.5337	0.1339	621.6167
Total	4.4082	8.4763	14.9250	0.0586	3.7298	0.1029	3.8327	1.0007	0.0982	1.0989	237.3038	7,960.3329	8,197.6367	16.8912	0.6929	8,826.3921

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	10/2/2022	5	0	

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 22.27

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

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	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

4.0 Operational Detail - Mobile

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.2559	7.5848	14.2086	0.0549	3.7298	0.0576	3.7874	1.0007	0.0545	1.0553	0.0000	5,289.1003	5,289.1003	0.2923	0.5344	5,455.6456
Unmitigated	1.2559	7.5848	14.2086	0.0549	3.7298	0.0576	3.7874	1.0007	0.0545	1.0553	0.0000	5,289.1003	5,289.1003	0.2923	0.5344	5,455.6456

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Industrial Park	2,140.29	1,613.15	787.52	7,443,660	7,443,660
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
User Defined Industrial	319.81	241.05	117.68	2,228,510	2,228,510
Total	2,460.10	1,854.20	905.20	9,672,169	9,672,169

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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
Industrial Park	16.60	8.40	6.90	59.00	28.00	13.00	79	19	2
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
User Defined Industrial	21.89	8.40	6.90	100.00	0.00	0.00	100	0	0

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Industrial Park	0.575400	0.066400	0.198000	0.134400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.025800	0.000000	0.000000
Other Non-Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
User Defined Industrial	0.000000	0.000000	0.000000	0.000000	0.061800	0.016300	0.071900	0.850000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,776.5377	1,776.5377	0.1500	0.0182	1,785.7026
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,776.5377	1,776.5377	0.1500	0.0182	1,785.7026
NaturalGas Mitigated	0.0356	0.3239	0.2720	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.5480	352.5480	6.7600e-003	6.4600e-003	354.6430
NaturalGas Unmitigated	0.0356	0.3239	0.2720	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.5480	352.5480	6.7600e-003	6.4600e-003	354.6430

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Industrial Park	6.6065e+006	0.0356	0.3239	0.2720	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.5480	352.5480	6.7600e-003	6.4600e-003	354.6430
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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		0.0356	0.3239	0.2720	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.5480	352.5480	6.7600e-003	6.4600e-003	354.6430

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas 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					
Industrial Park	6.6065e+006	0.0356	0.3239	0.2720	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.5480	352.5480	6.7600e-003	6.4600e-003	354.6430
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	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		0.0356	0.3239	0.2720	1.9400e-003		0.0246	0.0246		0.0246	0.0246	0.0000	352.5480	352.5480	6.7600e-003	6.4600e-003	354.6430

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	9.8477e+006	1,746.4457	0.1474	0.0179	1,755.4553
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	169680	30.0920	2.5400e-003	3.1000e-004	30.2472
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		1,776.5377	0.1500	0.0182	1,785.7026

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Industrial Park	9.8477e+006	1,746.4457	0.1474	0.0179	1,755.4553
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	169680	30.0920	2.5400e-003	3.1000e-004	30.2472
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		1,776.5377	0.1500	0.0182	1,785.7026

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0563	3.1000e-004	0.0342	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0666	0.0666	1.7000e-004	0.0000	0.0710
Unmitigated	3.0563	3.1000e-004	0.0342	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0666	0.0666	1.7000e-004	0.0000	0.0710

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	0.3520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1700e-003	3.1000e-004	0.0342	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0666	0.0666	1.7000e-004	0.0000	0.0710
Total	3.0563	3.1000e-004	0.0342	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0666	0.0666	1.7000e-004	0.0000	0.0710

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1700e-003	3.1000e-004	0.0342	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0666	0.0666	1.7000e-004	0.0000	0.0710
Total	3.0563	3.1000e-004	0.0342	0.0000		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	0.0666	0.0666	1.7000e-004	0.0000	0.0710

7.0 Water Detail

7.1 Mitigation Measures Water

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	443.3810	5.5337	0.1339	621.6167
Unmitigated	443.3810	5.5337	0.1339	621.6167

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	168.813 / 0	443.3810	5.5337	0.1339	621.6167
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		443.3810	5.5337	0.1339	621.6167

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Industrial Park	168.813 / 0	443.3810	5.5337	0.1339	621.6167
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		443.3810	5.5337	0.1339	621.6167

8.0 Waste Detail

8.1 Mitigation Measures Waste

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	183.7474	10.8592	0.0000	455.2265
Unmitigated	183.7474	10.8592	0.0000	455.2265

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	905.2	183.7474	10.8592	0.0000	455.2265
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		183.7474	10.8592	0.0000	455.2265

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Industrial Park	905.2	183.7474	10.8592	0.0000	455.2265
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		183.7474	10.8592	0.0000	455.2265

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	3	4.00	365	200	0.37	CNG

Torrance III (Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.0604	0.5673	0.4102	1.7300e-003		0.0206	0.0206		0.0189	0.0189	0.0000	152.2558	152.2558	0.0492	0.0000	153.4868
Total	0.0604	0.5673	0.4102	1.7300e-003		0.0206	0.0206		0.0189	0.0189	0.0000	152.2558	152.2558	0.0492	0.0000	153.4868

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

ATTACHMENT C:

CALFEEMOD EXISTING OPERATIONAL EMISSIONS MODEL OUTPUTS

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Torrance III (Existing Operations)
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	748.27	1000sqft	17.18	748,269.00	0
Other Asphalt Surfaces	2.79	Acre	2.79	121,619.52	0
Parking Lot	2,026.00	Space	18.23	810,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	0.00
tblConstructionPhase	PhaseEndDate	12/9/2022	10/2/2022
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Energy	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
Mobile	21.9671	22.4745	223.7808	0.4863	49.4259	0.3483	49.7742	13.1649	0.3233	13.4882		50,085.0295	50,085.0295	3.2600	2.0164	50,767.4258
Total	39.3107	24.2960	225.5921	0.4973	49.4259	0.4875	49.9134	13.1649	0.4626	13.6275		52,268.3398	52,268.3398	3.3035	2.0565	52,963.7466

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	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Energy	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
Mobile	21.9671	22.4745	223.7808	0.4863	49.4259	0.3483	49.7742	13.1649	0.3233	13.4882		50,085.0295	50,085.0295	3.2600	2.0164	50,767.4258
Total	39.3107	24.2960	225.5921	0.4973	49.4259	0.4875	49.9134	13.1649	0.4626	13.6275		52,268.3398	52,268.3398	3.3035	2.0565	52,963.7466

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	10/2/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 21.02

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

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	21.9671	22.4745	223.7808	0.4863	49.4259	0.3483	49.7742	13.1649	0.3233	13.4882		50,085.02 95	50,085.02 95	3.2600	2.0164	50,767.42 58
Unmitigated	21.9671	22.4745	223.7808	0.4863	49.4259	0.3483	49.7742	13.1649	0.3233	13.4882		50,085.02 95	50,085.02 95	3.2600	2.0164	50,767.42 58

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7,288.14	1,653.67	523.79	17,772,415	17,772,415
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	7,288.14	1,653.67	523.79	17,772,415	17,772,415

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

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	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
NaturalGas Unmitigated	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
General Office Building	18553	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	18.553	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Unmitigated	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476

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	1.9714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1459					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0263	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Total	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1459					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0263	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Total	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476

7.0 Water Detail

7.1 Mitigation Measures Water

Torrance III (Existing Operations) - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Torrance III (Existing Operations)
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	748.27	1000sqft	17.18	748,269.00	0
Other Asphalt Surfaces	2.79	Acre	2.79	121,619.52	0
Parking Lot	2,026.00	Space	18.23	810,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	0.00
tblConstructionPhase	PhaseEndDate	12/9/2022	10/2/2022
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Energy	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
Mobile	21.5677	24.2884	218.6595	0.4655	49.4259	0.3485	49.7743	13.1649	0.3235	13.4884		47,947.2487	47,947.2487	3.3561	2.1077	48,659.2453
Total	38.9113	26.1099	220.4708	0.4764	49.4259	0.4877	49.9136	13.1649	0.4627	13.6276		50,130.5590	50,130.5590	3.3996	2.1477	50,855.5661

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	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Energy	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
Mobile	21.5677	24.2884	218.6595	0.4655	49.4259	0.3485	49.7743	13.1649	0.3235	13.4884		47,947.2487	47,947.2487	3.3561	2.1077	48,659.2453
Total	38.9113	26.1099	220.4708	0.4764	49.4259	0.4877	49.9136	13.1649	0.4627	13.6276		50,130.5590	50,130.5590	3.3996	2.1477	50,855.5661

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	10/2/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 21.02

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

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	21.5677	24.2884	218.6595	0.4655	49.4259	0.3485	49.7743	13.1649	0.3235	13.4884		47,947.24 87	47,947.24 87	3.3561	2.1077	48,659.24 53
Unmitigated	21.5677	24.2884	218.6595	0.4655	49.4259	0.3485	49.7743	13.1649	0.3235	13.4884		47,947.24 87	47,947.24 87	3.3561	2.1077	48,659.24 53

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7,288.14	1,653.67	523.79	17,772,415	17,772,415
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	7,288.14	1,653.67	523.79	17,772,415	17,772,415

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

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	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
NaturalGas Unmitigated	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
General Office Building	18553	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	18.553	0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.2001	1.8189	1.5279	0.0109		0.1382	0.1382		0.1382	0.1382		2,182.7025	2,182.7025	0.0418	0.0400	2,195.6732

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Unmitigated	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476

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	1.9714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1459					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0263	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Total	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.9714					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	15.1459					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0263	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476
Total	17.1435	2.5800e-003	0.2835	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003		0.6078	0.6078	1.5900e-003		0.6476

7.0 Water Detail

7.1 Mitigation Measures Water

Torrance III (Existing Operations) - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Torrance III (Existing Operations)
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	748.27	1000sqft	17.18	748,269.00	0
Other Asphalt Surfaces	2.79	Acre	2.79	121,619.52	0
Parking Lot	2,026.00	Space	18.23	810,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Operations run only

Off-road Equipment - Operations run only

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	50.00	0.00
tblConstructionPhase	PhaseEndDate	12/9/2022	10/2/2022
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1272	3.2000e-004	0.0354	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0689	0.0689	1.8000e-004	0.0000	0.0734
Energy	0.0365	0.3320	0.2788	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	2,201.8255	2,201.8255	0.1623	0.0255	2,213.4675
Mobile	2.9202	3.3936	30.4049	0.0648	6.6765	0.0479	6.7245	1.7811	0.0445	1.8256	0.0000	6,056.8701	6,056.8701	0.4173	0.2650	6,146.2837
Waste						0.0000	0.0000		0.0000	0.0000	141.2594	0.0000	141.2594	8.3482	0.0000	349.9641
Water						0.0000	0.0000		0.0000	0.0000	42.1925	467.7125	509.9050	4.3731	0.1071	651.1501
Total	6.0839	3.7259	30.7192	0.0668	6.6765	0.0733	6.7498	1.7811	0.0699	1.8510	183.4519	8,726.4771	8,909.9290	13.3010	0.3976	9,360.9389

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1272	3.2000e-004	0.0354	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0689	0.0689	1.8000e-004	0.0000	0.0734
Energy	0.0365	0.3320	0.2788	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	2,201.8255	2,201.8255	0.1623	0.0255	2,213.4675
Mobile	2.9202	3.3936	30.4049	0.0648	6.6765	0.0479	6.7245	1.7811	0.0445	1.8256	0.0000	6,056.8701	6,056.8701	0.4173	0.2650	6,146.2837
Waste						0.0000	0.0000		0.0000	0.0000	141.2594	0.0000	141.2594	8.3482	0.0000	349.9641
Water						0.0000	0.0000		0.0000	0.0000	42.1925	467.7125	509.9050	4.3731	0.1071	651.1501
Total	6.0839	3.7259	30.7192	0.0668	6.6765	0.0733	6.7498	1.7811	0.0699	1.8510	183.4519	8,726.4771	8,909.9290	13.3010	0.3976	9,360.9389

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/3/2022	10/2/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 21.02

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

OffRoad Equipment

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

Trips and VMT

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

3.1 Mitigation Measures Construction

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	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

4.0 Operational Detail - Mobile

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2.9202	3.3936	30.4049	0.0648	6.6765	0.0479	6.7245	1.7811	0.0445	1.8256	0.0000	6,056.870 1	6,056.870 1	0.4173	0.2650	6,146.283 7
Unmitigated	2.9202	3.3936	30.4049	0.0648	6.6765	0.0479	6.7245	1.7811	0.0445	1.8256	0.0000	6,056.870 1	6,056.870 1	0.4173	0.2650	6,146.283 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7,288.14	1,653.67	523.79	17,772,415	17,772,415
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	7,288.14	1,653.67	523.79	17,772,415	17,772,415

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374
Parking Lot	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

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	1,840.4546	1,840.4546	0.1553	0.0188	1,849.9492
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,840.4546	1,840.4546	0.1553	0.0188	1,849.9492
NaturalGas Mitigated	0.0365	0.3320	0.2788	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.3709	361.3709	6.9300e-003	6.6300e-003	363.5183
NaturalGas Unmitigated	0.0365	0.3320	0.2788	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.3709	361.3709	6.9300e-003	6.6300e-003	363.5183

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	6.77183e+006	0.0365	0.3320	0.2788	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.3709	361.3709	6.9300e-003	6.6300e-003	363.5183
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0365	0.3320	0.2788	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.3709	361.3709	6.9300e-003	6.6300e-003	363.5183

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	6.77183e+006	0.0365	0.3320	0.2788	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.3709	361.3709	6.9300e-003	6.6300e-003	363.5183
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0365	0.3320	0.2788	1.9900e-003		0.0252	0.0252		0.0252	0.0252	0.0000	361.3709	361.3709	6.9300e-003	6.6300e-003	363.5183

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.00941e+007	1,790.1523	0.1511	0.0183	1,799.3874
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	283640	50.3023	4.2500e-003	5.1000e-004	50.5618
Total		1,840.4546	0.1553	0.0188	1,849.9492

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.00941e+007	1,790.1523	0.1511	0.0183	1,799.3874
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	283640	50.3023	4.2500e-003	5.1000e-004	50.5618
Total		1,840.4546	0.1553	0.0188	1,849.9492

6.0 Area Detail

6.1 Mitigation Measures Area

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.1272	3.2000e-004	0.0354	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0689	0.0689	1.8000e-004	0.0000	0.0734
Unmitigated	3.1272	3.2000e-004	0.0354	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0689	0.0689	1.8000e-004	0.0000	0.0734

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	0.3598					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2800e-003	3.2000e-004	0.0354	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0689	0.0689	1.8000e-004	0.0000	0.0734
Total	3.1272	3.2000e-004	0.0354	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0689	0.0689	1.8000e-004	0.0000	0.0734

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3598					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7641					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2800e-003	3.2000e-004	0.0354	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0689	0.0689	1.8000e-004	0.0000	0.0734
Total	3.1272	3.2000e-004	0.0354	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.0689	0.0689	1.8000e-004	0.0000	0.0734

7.0 Water Detail

7.1 Mitigation Measures Water

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	509.9050	4.3731	0.1071	651.1501
Unmitigated	509.9050	4.3731	0.1071	651.1501

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	132.993 / 81.5117	509.9050	4.3731	0.1071	651.1501
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		509.9050	4.3731	0.1071	651.1501

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	132.993 / 81.5117	509.9050	4.3731	0.1071	651.1501
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		509.9050	4.3731	0.1071	651.1501

8.0 Waste Detail

8.1 Mitigation Measures Waste

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	141.2594	8.3482	0.0000	349.9641
Unmitigated	141.2594	8.3482	0.0000	349.9641

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	695.89	141.2594	8.3482	0.0000	349.9641
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		141.2594	8.3482	0.0000	349.9641

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	695.89	141.2594	8.3482	0.0000	349.9641
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		141.2594	8.3482	0.0000	349.9641

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

Equipment Type	Number
----------------	--------

Torrance III (Existing Operations) - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

11.0 Vegetation

ATTACHMENT D:

HEALTH RISK ASSESSMENT

Emissions	Phase	Lb/Day	# Days	Emissions	Avg/Lb Day	Avg/Hourly
On-Site	Demolition	1.24	50	62	1.24	0.155
Exhaust PM-10	Site Preparation	2.16	30	64.692	2.1564	0.26955
	Grading	1.67	75	125.2725	1.6703	0.2087875
	Building Construction	2.23	160	357.392	2.2337	0.2792125
	Paving	0.51	55	28.061	0.5102	0.063775
	Architectural Coatings	0.09	110	10.384	0.0944	0.0118
		7.91	315	647.8015	2.056512698	0.257064087

Phase	Start Date	End Date	No. Days
Demolition	10/3/2022	12/9/2022	50
Site Preparation	12/10/2022	1/20/2023	30
Grading	1/21/2023	5/5/2023	75
Building Construction	5/6/2023	12/15/2023	160
Paving	10/1/2023	12/15/2023	55
Architectural Coatings	7/15/2023	12/15/2023	110
Total Days of Construction			315

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00747			7.47E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.8E-07	2.2E-08	5.0E+00	1.4E-03	1.5E-03					
TOTAL								2.2E-08			1.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year) 92
exposure duration (years) 0.25
inhalation rate (L/kg-day) 361
inhalation absorption factor 1
averaging time (years) 70
fraction of time at home 0.85
age sensitivity factor (age third trimester) 10

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
		0.00747			7.47E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.5E-06	3.5E-07	5.0E+00	1.4E-03	1.5E-03				
TOTAL								3.5E-07			1.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

0.37

RESP Respiratory System
 CNS/PNS Central/Peripheral Nervous System
 CV/BL Cardiovascular/Blood System
 IMMUN Immune System
 KIDN Kidney
 GI/LV Gastrointestinal System/Liver
 REPRO Reproductive System (e.g. teratogenic and developmental effects)
 EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year) 200
 exposure duration (years) 0.614
 inhalation rate (L/kg-day) 1090
 inhalation absorption factor 1
 averaging time (years) 70
 fraction of time at home 0.85
 age sensitivity factor (0 to 2 years old) 10

**AVERAGE EMISSION FACTOR
LOS ANGELES COUNTY 2023**

Speed	LHD1	MHD	HHD
0	0.319197	0.029739	0.01492
5	0.015348	0.004996	0.01371
25	0.00628	0.002498	0.00713

Speed	Weighted Average Emissions
0	0.03985
5	0.01316
25	0.00670

Emission Rates - 2022 Emission Factors

Truck Emission Rates						
Source	Trucks Per Day	VMT ^a (miles/day)	Truck Emission Rate ^b (grams/mile)	Truck Emission Rate ^b (grams/idle-hour)	Daily Truck Emissions ^c (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling Building 8	30			0.0399	0.30	3.459E-06
On-Site Idling Building 9	32			0.0399	0.32	3.690E-06
On-Site Idling Building 10	35			0.0399	0.34	3.978E-06
On-Site Idling Building 11	35			0.0399	0.35	4.036E-06
On-Site Idling Building 12	29			0.0399	0.28	3.286E-06
On-Site Travel	320	95.60	0.0132		1.26	1.456E-05
Off-Site Travel 15%	263	139.92	0.0067		0.94	1.085E-05
Off-Site Travel 15%	193	46.76	0.0067		0.31	3.627E-06
Off-Site Travel 28%	263	68.42	0.0067		0.46	5.307E-06
Off-Site Travel 15%	320	101.61	0.0067		0.68	7.881E-06
Off-Site Travel 10%	260	92.72	0.0067		0.62	7.191E-06
Off-Site Travel 10%	196	70.89	0.0067		0.48	5.499E-06
Off-Site Travel 7%	320	48.20	0.0067		0.32	3.738E-06

^a Vehicle miles traveled are for modeled truck route only.

^b Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

^c This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: County

Region: LOS ANGELES

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
LOS ANGI	2023	HHDT	Aggregate	Aggregate	Gasoline	53.11283
LOS ANGI	2023	HHDT	Aggregate	Aggregate	Diesel	59068.21
LOS ANGI	2023	HHDT	Aggregate	Aggregate	Natural Gas	2800.075
LOS ANGI	2023	LHDT1	Aggregate	Aggregate	Gasoline	107353.7
LOS ANGI	2023	LHDT1	Aggregate	Aggregate	Diesel	71099.53
LOS ANGI	2023	MHDT	Aggregate	Aggregate	Gasoline	14791.98
LOS ANGI	2023	MHDT	Aggregate	Aggregate	Diesel	66165.78

HHDT% GAS/NG 0.04608

HHDT% DSL 0.95392

LHDT1% GAS 0.60158

LHDT1% DSL 0.39842

MHDT% GAS/NG 0.18271

MHDT% DSL 0.81729

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)
		0.00152			1.52E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.3E-07	1.7E-08	5.0E+00	1.4E-03	3.0E-04				
TOTAL								1.7E-08			3.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year) 350
exposure duration (years) 0.25
inhalation rate (L/kg-day) 361
inhalation absorption factor 1
averaging time (years) 70
fraction of time at home 0.85
age sensitivity factor (age third trimester) 10

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00152			1.52E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.6E-06	4.1E-07	5.0E+00	1.4E-03	3.0E-04					
TOTAL								4.1E-07			3.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year) 350
exposure duration (years) 2
inhalation rate (L/kg-day) 1090
inhalation absorption factor 1
averaging time (years) 70
fraction of time at home 0.85
age sensitivity factor (0 to 2 years old) 10

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00152			1.52E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	8.3E-07	3.8E-07	5.0E+00	1.4E-03	3.0E-04					
TOTAL								3.8E-07			3.0E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year) 350
exposure duration (years) 14
inhalation rate (L/kg-day) 572
inhalation absorption factor 1
averaging time (years) 70
fraction of time at home 0.72
age sensitivity factor (ages 2 to 16 years) 3

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source (a)	Mass GLC		Weight Fraction (d)	Contaminant (e)	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**										
	(ug/m ³) (b)	(mg/m ³) (c)			URF (ug/m ³) ⁻¹ (f)	CPF (mg/kg/day) ⁻¹ (g)	DOSE (mg/kg-day) (h)	RISK (i)	REL (ug/m ³) (j)	RfD (mg/kg/day) (k)	RESP (l)	CNS/PNS (m)	CV/BL (n)	IMMUN (o)	KIDN (p)	GI/LV (q)	REPRO (r)	EYES (s)	
		0.00152			1.52E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.8E-07	5.8E-08	5.0E+00	1.4E-03	3.0E-04					
TOTAL					5.8E-08				3.0E-04 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00 0.0E+00										

0.06

** Key to Toxicological Endpoints

RESP Respiratory System
CNS/PNS Central/Peripheral Nervous System
CV/BL Cardiovascular/Blood System
IMMUN Immune System
KIDN Kidney
GI/LV Gastrointestinal System/Liver
REPRO Reproductive System (e.g. teratogenic and developmental effects)
EYES Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year) 350
exposure duration (years) 14
inhalation rate (L/kg-day) 261
inhalation absorption factor 1
averaging time (years) 70
fraction of time at home 0.73
age sensitivity factor (ages 16 to 30 years old) 1

Total Risk for All Age Bins (per million) 0.86

** Lakes Environmental AERMOD MPI

**

**

** AERMOD INPUT PRODUCED BY:

** AERMOD VIEW VER. 10.0.1

** LAKES ENVIRONMENTAL SOFTWARE INC.

** DATE: 11/1/2021

** FILE: C:\LAKES\AERMOD VIEW\14092 HRA\14092 CONS\14092 CONS.ADI

**

**

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** AERMOD CONTROL PATHWAY

**

**

CO STARTING

TITLEONE C:\LAKES\AERMOD VIEW\14092 HRA\14092 CONS\14092 CONS.ISC

MODELOPT DFAULT CONC

AVERTIME ANNUAL

URBANOPT 9818605

POLLUTID DPM

RUNORNOT RUN

ERRORFIL "14092 CONS.ERR"

CO FINISHED

**

** AERMOD SOURCE PATHWAY

**

**

SO STARTING

** SOURCE LOCATION **

** SOURCE ID - TYPE - X COORD. - Y COORD. **

LOCATION VOL1	VOLUME	378427.082	3746820.137	21.000
LOCATION VOL2	VOLUME	378426.059	3746940.928	21.000
LOCATION VOL3	VOLUME	378430.823	3746975.636	20.700
LOCATION VOL4	VOLUME	378451.239	3747015.788	20.200
LOCATION VOL5	VOLUME	378482.544	3747141.688	19.320
LOCATION VOL6	VOLUME	378613.208	3747139.646	18.900
LOCATION VOL7	VOLUME	378744.553	3747136.924	18.000
LOCATION VOL8	VOLUME	378786.746	3747136.924	17.950
LOCATION VOL9	VOLUME	378548.557	3747063.426	19.360
LOCATION VOL10	VOLUME	378679.901	3747063.426	18.940
LOCATION VOL11	VOLUME	378785.385	3747039.607	18.400
LOCATION VOL12	VOLUME	378786.746	3746907.582	19.150
LOCATION VOL13	VOLUME	378786.066	3746836.125	19.480

** SOURCE PARAMETERS **

RE FINISHED

**

** AERMOD METEOROLOGY PATHWAY

**

**

ME STARTING

SURFFILE ..\KHHR_V9_ADJU\KHHR_V9.SFC

PROFFILE ..\KHHR_V9_ADJU\KHHR_V9.PFL

SURFDATA 3167 2012

UAIRDATA 3190 2012

PROFBASE 19.0 METERS

ME FINISHED

**

** AERMOD OUTPUT PATHWAY

**

**

OU STARTING

** AUTO-GENERATED PLOTFILES

PLOTFILE ANNUAL ALL "14092 CONS.AD\AN00GALL.PLT" 31

SUMMFILE "14092 CONS.SUM"

OU FINISHED

*** Message Summary For AERMOD Model Setup ***

----- Summary of Total Messages -----

A Total of	0 Fatal Error Message(s)
A Total of	2 Warning Message(s)
A Total of	0 Informational Message(s)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

ME W186 363 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50

ME W187 363 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

PAGE 1
*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 13 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes: 13 Source(s); 1 Source Group(s); and 3
Receptor(s)

with: 0 POINT(s), including
0 POINTCAP(s) and 0 POINTHOR(s)

and: 13 VOLUME source(s)

and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing

Hours

b for Both Calm

and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.5 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 14092 CONS.ERR

**File for Summary of Results: 14092 CONS.SUM

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CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
(METERS)	ID	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
		CATS.	BY						

VOL1		0	0.24915E-02	378427.1	3746820.1	21.0	5.00	30.23
1.93	YES	HRDOW7						
VOL2		0	0.24915E-02	378426.1	3746940.9	21.0	5.00	30.23
1.93	YES	HRDOW7						
VOL3		0	0.24915E-02	378430.8	3746975.6	20.7	5.00	30.23
1.93	YES	HRDOW7						
VOL4		0	0.24915E-02	378451.2	3747015.8	20.2	5.00	30.23
1.93	YES	HRDOW7						
VOL5		0	0.24915E-02	378482.5	3747141.7	19.3	5.00	30.23
1.93	YES	HRDOW7						
VOL6		0	0.24915E-02	378613.2	3747139.6	18.9	5.00	30.23
1.93	YES	HRDOW7						
VOL7		0	0.24915E-02	378744.6	3747136.9	18.0	5.00	30.23
1.93	YES	HRDOW7						
VOL8		0	0.24915E-02	378786.7	3747136.9	17.9	5.00	30.23
1.93	YES	HRDOW7						
VOL9		0	0.24915E-02	378548.6	3747063.4	19.4	5.00	30.23
1.93	YES	HRDOW7						
VOL10		0	0.24915E-02	378679.9	3747063.4	18.9	5.00	30.23
1.93	YES	HRDOW7						
VOL11		0	0.24915E-02	378785.4	3747039.6	18.4	5.00	30.23
1.93	YES	HRDOW7						
VOL12		0	0.24915E-02	378786.7	3746907.6	19.2	5.00	30.23
1.93	YES	HRDOW7						
VOL13		0	0.24915E-02	378786.1	3746836.1	19.5	5.00	30.23
1.93	YES	HRDOW7						

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 *** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs

```

-----
ALL      VOL1      , VOL2      , VOL3      , VOL4      , VOL5      ,
VOL6      , VOL7      , VOL8      ,
VOL9      , VOL10     , VOL11     , VOL12     , VOL13     ,
^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
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*** 12:44:49

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

```

URBAN ID  URBAN POP          SOURCE IDs
-----  -
          9818605.  VOL1      , VOL2      , VOL3      , VOL4      ,
VOL5      , VOL6      , VOL7      ,
VOL8      ,
          VOL9      , VOL10     , VOL11     , VOL12     , VOL13     ,
^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```

SOURCE ID = VOL1      ; SOURCE TYPE = VOLUME      :
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
  HOUR  SCALAR  HOUR  SCALAR  HOUR  SCALAR
-----
                                     DAY OF WEEK = MONDAY
   1  .0000E+00   2  .0000E+00   3  .0000E+00   4  .0000E+00   5  .0000E+00
  6  .0000E+00   7  .0000E+00   8  .0000E+00
   9  .1000E+01  10  .1000E+01  11  .1000E+01  12  .1000E+01  13  .1000E+01
 14  .1000E+01  15  .1000E+01  16  .1000E+01
 17  .0000E+00  18  .0000E+00  19  .0000E+00  20  .0000E+00  21  .0000E+00

```


22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

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CONS\14092 CONS.ISC *** 11/01/21

*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = VOL2 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

 DAY OF WEEK = MONDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY
 1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

SOURCE ID = VOL3 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

SOURCE ID = VOL4 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01

14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21

*** AERMET - VERSION 16216 *** **
*** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

SOURCE ID = VOL5 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = WEDNESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00

14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00
 *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 CONS\14092 CONS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:44:49

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW7) *

SOURCE ID = VOL6 ; SOURCE TYPE = VOLUME :
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21

*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

SOURCE ID = VOL7 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
 14 .1000E+01 15 .1000E+01 16 .1000E+01
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
 6 .0000E+00 7 .0000E+00 8 .0000E+00
 9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
 14 .0000E+00 15 .0000E+00 16 .0000E+00
 17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
 22 .0000E+00 23 .0000E+00 24 .0000E+00

*** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 CONS\14092 CONS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:44:49

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
 OF WEEK (HRDOW7) *

SOURCE ID = VOL8 ; SOURCE TYPE = VOLUME ;
 HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
 HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY

*** AERMET - VERSION 16216 ***
*** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = VOL9 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21

*** AERMET - VERSION 16216 *** ***
*** 12:44:49

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = VOL12				; SOURCE TYPE = VOLUME		:			
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = TUESDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = WEDNESDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = THURSDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = FRIDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01
14	.1000E+01	15	.1000E+01	16	.1000E+01				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00				
DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00
6	.0000E+00	7	.0000E+00	8	.0000E+00				
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00
14	.0000E+00	15	.0000E+00	16	.0000E+00				
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
*** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY
OF WEEK (HRDOW7) *

SOURCE ID = VOL13 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = MONDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01

17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .1000E+01
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(378386.3, 3747188.9, 19.8, 19.8, 0.0); (378640.3,
3747260.4, 18.0, 18.0, 0.0);
(378287.9, 3747244.5, 19.8, 19.8, 0.0);

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***

(1=YES; 0=NO)

Year: 2012

Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
12	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	
1.00	0.00	0.		7.9	283.8	2.0								
12	01	01	1	02	-2.1	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	
1.00	0.53	305.		7.9	283.1	2.0								
12	01	01	1	03	-9.0	0.127	-9.000	-9.000	-999.	109.	20.8	0.24	2.79	
1.00	1.18	323.		7.9	282.5	2.0								
12	01	01	1	04	-2.2	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	
1.00	0.53	296.		7.9	282.0	2.0								
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	
1.00	0.00	0.		7.9	281.4	2.0								
12	01	01	1	06	-6.0	0.103	-9.000	-9.000	-999.	80.	16.7	0.24	2.79	
1.00	0.97	321.		7.9	281.4	2.0								
12	01	01	1	07	-4.3	0.088	-9.000	-9.000	-999.	63.	14.4	0.24	2.79	
1.00	0.82	313.		7.9	280.4	2.0								
12	01	01	1	08	15.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	
0.55	0.00	0.		7.9	281.4	2.0								
12	01	01	1	09	35.7	0.115	0.353	0.013	45.	93.	-3.8	0.24	2.79	
0.32	0.63	179.		7.9	285.4	2.0								
12	01	01	1	10	109.0	0.141	0.727	0.009	128.	127.	-2.3	0.24	2.79	
0.24	0.70	170.		7.9	289.2	2.0								
12	01	01	1	11	164.4	0.149	1.186	0.005	370.	138.	-1.8	0.24	2.79	
0.21	0.70	222.		7.9	297.0	2.0								
12	01	01	1	12	191.7	0.163	1.525	0.005	672.	158.	-2.1	0.24	2.79	
0.20	0.79	12.		7.9	299.9	2.0								
12	01	01	1	13	191.3	0.170	1.819	0.005	1144.	168.	-2.3	0.24	2.79	
0.20	0.84	260.		7.9	300.9	2.0								
12	01	01	1	14	161.6	0.344	1.852	0.005	1428.	483.	-22.7	0.24	2.79	
0.21	2.49	260.		7.9	298.8	2.0								
12	01	01	1	15	105.0	0.367	1.638	0.005	1521.	534.	-42.8	0.24	2.79	
0.24	2.84	292.		7.9	293.8	2.0								
12	01	01	1	16	29.7	0.383	1.079	0.005	1539.	570.	-172.5	0.24	2.79	
0.33	3.22	276.		7.9	290.4	2.0								
12	01	01	1	17	-24.8	0.287	-9.000	-9.000	-999.	374.	90.3	0.24	2.79	
0.59	2.52	284.		7.9	289.2	2.0								
12	01	01	1	18	-26.7	0.269	-9.000	-9.000	-999.	336.	79.8	0.24	2.79	
1.00	2.38	285.		7.9	287.5	2.0								
12	01	01	1	19	-10.2	0.137	-9.000	-9.000	-999.	133.	22.7	0.24	2.79	
1.00	1.26	287.		7.9	287.5	2.0								
12	01	01	1	20	-6.2	0.106	-9.000	-9.000	-999.	83.	17.2	0.24	2.79	
1.00	0.99	303.		7.9	287.0	2.0								
12	01	01	1	21	-7.6	0.117	-9.000	-9.000	-999.	96.	19.1	0.24	2.79	
1.00	1.09	326.		7.9	286.4	2.0								
12	01	01	1	22	-6.8	0.110	-9.000	-9.000	-999.	88.	18.0	0.24	2.79	

```

1.00  1.03  297.  7.9  285.9  2.0
  12 01 01  1 23 -19.9  0.200 -9.000 -9.000 -999.  214.  43.9  0.24  2.79
1.00  1.79  290.  7.9  285.9  2.0
  12 01 01  1 24 -19.6  0.196 -9.000 -9.000 -999.  209.  42.3  0.24  2.79
1.00  1.76  282.  7.9  285.9  2.0

```

First hour of profile data

```

YR MO DY HR HEIGHT F  WDIR  WSPD AMB_TMP sigmaA  sigmaW  sigmaV
12 01 01 01  7.9 1 -999. -99.00  283.8  99.0 -99.00 -99.00

```

F indicates top of profile (=1) or below (=0)

```

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

```

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2
, VOL3 , VOL4 , VOL5 ,
, VOL6 , VOL7 , VOL8 , VOL9 , VOL10
, VOL11 , VOL12 , VOL13 ,

```

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF DPM IN MICROGRAMS/M**3

**

```

X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC
-----
378386.27 3747188.87 0.02068 378640.26
3747260.36 0.02878
378287.90 3747244.46 0.00747

```

```

^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
CONS\14092 CONS.ISC *** 11/01/21
*** AERMET - VERSION 16216 *** ***
*** 12:44:49

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3

**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	
ALL	1ST HIGHEST VALUE IS	0.02878 AT (	378640.26, 3747260.36,
18.00,	18.00, 0.00) DC		
	2ND HIGHEST VALUE IS	0.02068 AT (	378386.27, 3747188.87,
19.77,	19.77, 0.00) DC		
	3RD HIGHEST VALUE IS	0.00747 AT (	378287.90, 3747244.46,
19.81,	19.81, 0.00) DC		
	4TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00,
0.00,	0.00, 0.00)		
	5TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00,
0.00,	0.00, 0.00)		
	6TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00,
0.00,	0.00, 0.00)		
	7TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00,
0.00,	0.00, 0.00)		
	8TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00,
0.00,	0.00, 0.00)		
	9TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00,
0.00,	0.00, 0.00)		
	10TH HIGHEST VALUE IS	0.00000 AT (	0.00, 0.00,
0.00,	0.00, 0.00)		

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 CONS\14092 CONS.ISC *** 11/01/21

*** AERMET - VERSION 16216 *** ***
 *** 12:44:49

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1474 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 1223 Calm Hours Identified

A Total of 251 Missing Hours Identified (0.57 Percent)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
ME W186 363 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50
ME W187 363 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.0.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 11/1/2021
** FILE: C:\LAKES\AERMOD VIEW\14092 HRA\14092 OPS\14092 OPS.ADI
**
*****
**
**
*****
** AERMOD CONTROL PATHWAY
*****
**
**
CO STARTING
  TITLEONE C:\LAKES\AERMOD VIEW\14092 HRA\14092 OPS\14092 OPS.ISC
  MODELOPT DFAULT CONC
  AVERTIME ANNUAL
  URBANOPT 9818605
  POLLUTID DPM
  RUNORNOT RUN
  ERRORFIL "14092 OPS.ERR"
CO FINISHED
**
*****
** AERMOD SOURCE PATHWAY
*****
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** -----
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC ON-SITE IDLING BUILDING 8
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 3.459E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 378750.057, 3746947.854, 19.01, 3.49, 4.00
** 378751.011, 3746823.363, 19.94, 3.49, 4.00
** -----

```

LOCATION	VOLUME				
L0000973	378750.090	3746943.559	19.00		
L0000974	378750.156	3746934.969	19.08		
L0000975	378750.222	3746926.380	19.16		
L0000976	378750.287	3746917.790	19.24		
L0000977	378750.353	3746909.200	19.32		
L0000978	378750.419	3746900.610	19.40		
L0000979	378750.485	3746892.021	19.48		
L0000980	378750.551	3746883.431	19.55		
L0000981	378750.617	3746874.841	19.63		
L0000982	378750.682	3746866.251	19.71		
L0000983	378750.748	3746857.662	19.78		
L0000984	378750.814	3746849.072	19.84		
L0000985	378750.880	3746840.482	19.85		
L0000986	378750.946	3746831.892	19.87		

** END OF LINE VOLUME SOURCE ID = SLINE1

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE2

** DESCRSRC ON-SITE IDLING BUILDING 9

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 3.69E-06

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 2

** 378458.624, 3746951.193, 20.74, 3.49, 4.00

** 378457.670, 3746825.271, 20.95, 3.49, 4.00

**

LOCATION	VOLUME				
L0000987	378458.592	3746946.898	20.64		
L0000988	378458.526	3746938.308	20.68		
L0000989	378458.461	3746929.718	20.71		
L0000990	378458.396	3746921.129	20.74		
L0000991	378458.331	3746912.539	20.78		
L0000992	378458.266	3746903.949	20.81		
L0000993	378458.201	3746895.359	20.84		
L0000994	378458.136	3746886.770	20.88		
L0000995	378458.071	3746878.180	20.91		
L0000996	378458.006	3746869.590	20.94		
L0000997	378457.941	3746861.000	20.98		
L0000998	378457.876	3746852.411	21.00		
L0000999	378457.811	3746843.821	21.00		
L0001000	378457.746	3746835.231	21.00		
L0001001	378457.681	3746826.641	21.00		

** END OF LINE VOLUME SOURCE ID = SLINE2

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE3

** DESCRSRC ON-SITE IDLING BUILDING 10

** PREFIX

** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 3.978E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 378517.769, 3747145.799, 19.05, 3.49, 4.00
** 378517.769, 3747069.006, 19.76, 3.49, 4.00

LOCATION L0001002 VOLUME 378517.769 3747141.504 18.99
LOCATION L0001003 VOLUME 378517.769 3747132.914 19.00
LOCATION L0001004 VOLUME 378517.769 3747124.324 19.07
LOCATION L0001005 VOLUME 378517.769 3747115.734 19.16
LOCATION L0001006 VOLUME 378517.769 3747107.144 19.24
LOCATION L0001007 VOLUME 378517.769 3747098.554 19.32
LOCATION L0001008 VOLUME 378517.769 3747089.964 19.41
LOCATION L0001009 VOLUME 378517.769 3747081.374 19.49
LOCATION L0001010 VOLUME 378517.769 3747072.784 19.57

** END OF LINE VOLUME SOURCE ID = SLINE3

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE4
** DESCRSRC ON-SITE IDLING BUILDING 11
** PREFIX

** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.036E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 378585.977, 3747144.369, 19.00, 3.49, 4.00
** 378585.977, 3747066.621, 19.00, 3.49, 4.00

LOCATION L0001011 VOLUME 378585.977 3747140.074 18.90
LOCATION L0001012 VOLUME 378585.977 3747131.484 18.99
LOCATION L0001013 VOLUME 378585.977 3747122.894 19.00
LOCATION L0001014 VOLUME 378585.977 3747114.304 19.00
LOCATION L0001015 VOLUME 378585.977 3747105.714 19.00
LOCATION L0001016 VOLUME 378585.977 3747097.124 19.00
LOCATION L0001017 VOLUME 378585.977 3747088.534 19.01
LOCATION L0001018 VOLUME 378585.977 3747079.944 19.01
LOCATION L0001019 VOLUME 378585.977 3747071.354 19.01

** END OF LINE VOLUME SOURCE ID = SLINE4

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC ON-SITE IDLING BUILDING 12
** PREFIX

** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT

** EMISSION RATE = 3.286E-06
 ** VERTICAL DIMENSION = 6.99
 ** SZINIT = 3.25
 ** NODES = 2
 ** 378737.179, 3747146.276, 18.08, 3.49, 4.00
 ** 378738.133, 3747041.342, 19.00, 3.49, 4.00

** -----

LOCATION	VOLUME	378737.218	3747141.982	18.05
LOCATION L0001020	VOLUME	378737.218	3747141.982	18.05
LOCATION L0001021	VOLUME	378737.296	3747133.392	18.05
LOCATION L0001022	VOLUME	378737.374	3747124.802	18.10
LOCATION L0001023	VOLUME	378737.452	3747116.213	18.18
LOCATION L0001024	VOLUME	378737.530	3747107.623	18.27
LOCATION L0001025	VOLUME	378737.608	3747099.033	18.36
LOCATION L0001026	VOLUME	378737.686	3747090.444	18.44
LOCATION L0001027	VOLUME	378737.764	3747081.854	18.53
LOCATION L0001028	VOLUME	378737.842	3747073.264	18.62
LOCATION L0001029	VOLUME	378737.921	3747064.675	18.71
LOCATION L0001030	VOLUME	378737.999	3747056.085	18.80
LOCATION L0001031	VOLUME	378738.077	3747047.496	18.89

** END OF LINE VOLUME SOURCE ID = SLINE5

** -----

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE6

** DESCRSRC ON-SITE TRAVEL

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 0.00001456

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 2

** 378368.335, 3747009.984, 20.62, 3.49, 4.00

** 378849.114, 3747004.547, 18.10, 3.49, 4.00

** -----

LOCATION	VOLUME	378372.630	3747009.935	20.84
LOCATION L0001032	VOLUME	378372.630	3747009.935	20.84
LOCATION L0001033	VOLUME	378381.220	3747009.838	20.77
LOCATION L0001034	VOLUME	378389.809	3747009.741	20.70
LOCATION L0001035	VOLUME	378398.398	3747009.644	20.62
LOCATION L0001036	VOLUME	378406.988	3747009.546	20.55
LOCATION L0001037	VOLUME	378415.577	3747009.449	20.48
LOCATION L0001038	VOLUME	378424.167	3747009.352	20.40
LOCATION L0001039	VOLUME	378432.756	3747009.255	20.33
LOCATION L0001040	VOLUME	378441.346	3747009.158	20.29
LOCATION L0001041	VOLUME	378449.935	3747009.061	20.26
LOCATION L0001042	VOLUME	378458.525	3747008.964	20.22
LOCATION L0001043	VOLUME	378467.114	3747008.867	20.18
LOCATION L0001044	VOLUME	378475.704	3747008.769	20.14
LOCATION L0001045	VOLUME	378484.293	3747008.672	20.11
LOCATION L0001046	VOLUME	378492.882	3747008.575	20.07
LOCATION L0001047	VOLUME	378501.472	3747008.478	20.03

LOCATION L0001048	VOLUME	378510.061	3747008.381	19.99
LOCATION L0001049	VOLUME	378518.651	3747008.284	19.91
LOCATION L0001050	VOLUME	378527.240	3747008.187	19.84
LOCATION L0001051	VOLUME	378535.830	3747008.089	19.77
LOCATION L0001052	VOLUME	378544.419	3747007.992	19.69
LOCATION L0001053	VOLUME	378553.009	3747007.895	19.62
LOCATION L0001054	VOLUME	378561.598	3747007.798	19.54
LOCATION L0001055	VOLUME	378570.187	3747007.701	19.47
LOCATION L0001056	VOLUME	378578.777	3747007.604	19.40
LOCATION L0001057	VOLUME	378587.366	3747007.507	19.33
LOCATION L0001058	VOLUME	378595.956	3747007.410	19.29
LOCATION L0001059	VOLUME	378604.545	3747007.312	19.25
LOCATION L0001060	VOLUME	378613.135	3747007.215	19.22
LOCATION L0001061	VOLUME	378621.724	3747007.118	19.18
LOCATION L0001062	VOLUME	378630.314	3747007.021	19.14
LOCATION L0001063	VOLUME	378638.903	3747006.924	19.10
LOCATION L0001064	VOLUME	378647.493	3747006.827	19.07
LOCATION L0001065	VOLUME	378656.082	3747006.730	19.03
LOCATION L0001066	VOLUME	378664.671	3747006.632	19.00
LOCATION L0001067	VOLUME	378673.261	3747006.535	19.00
LOCATION L0001068	VOLUME	378681.850	3747006.438	19.00
LOCATION L0001069	VOLUME	378690.440	3747006.341	19.00
LOCATION L0001070	VOLUME	378699.029	3747006.244	19.00
LOCATION L0001071	VOLUME	378707.619	3747006.147	19.00
LOCATION L0001072	VOLUME	378716.208	3747006.050	19.00
LOCATION L0001073	VOLUME	378724.798	3747005.953	19.00
LOCATION L0001074	VOLUME	378733.387	3747005.855	19.00
LOCATION L0001075	VOLUME	378741.976	3747005.758	18.98
LOCATION L0001076	VOLUME	378750.566	3747005.661	18.91
LOCATION L0001077	VOLUME	378759.155	3747005.564	18.83
LOCATION L0001078	VOLUME	378767.745	3747005.467	18.76
LOCATION L0001079	VOLUME	378776.334	3747005.370	18.69
LOCATION L0001080	VOLUME	378784.924	3747005.273	18.61
LOCATION L0001081	VOLUME	378793.513	3747005.175	18.54
LOCATION L0001082	VOLUME	378802.103	3747005.078	18.46
LOCATION L0001083	VOLUME	378810.692	3747004.981	18.39
LOCATION L0001084	VOLUME	378819.282	3747004.884	18.32
LOCATION L0001085	VOLUME	378827.871	3747004.787	18.28
LOCATION L0001086	VOLUME	378836.460	3747004.690	18.25
LOCATION L0001087	VOLUME	378845.050	3747004.593	18.21

** END OF LINE VOLUME SOURCE ID = SLINE6

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE7

** DESCRSRC OFF-SITE TRAVEL 15%

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 0.00001085

** VERTICAL DIMENSION = 6.99

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** SZINIT = 3.25
** NODES = 8
** 378349.695, 3747007.653, 20.85, 3.49, 4.00
** 378361.345, 3747046.489, 20.69, 3.49, 4.00
** 378387.753, 3747100.081, 19.91, 3.49, 4.00
** 378411.054, 3747167.654, 19.67, 3.49, 4.00
** 378411.831, 3747227.460, 19.10, 3.49, 4.00
** 378101.926, 3747229.014, 20.96, 3.49, 4.00
** 378098.043, 3747229.790, 20.95, 3.49, 4.00
** 378101.926, 3747540.471, 18.97, 3.49, 4.00

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LOCATION	VOLUME	VOLUME	VOLUME	VOLUME
L0001088	378350.929	3747011.767	21.00	
L0001089	378353.397	3747019.995	21.00	
L0001090	378355.865	3747028.223	20.99	
L0001091	378358.334	3747036.451	20.96	
L0001092	378360.802	3747044.678	20.89	
L0001093	378364.306	3747052.499	20.77	
L0001094	378368.103	3747060.204	20.66	
L0001095	378371.900	3747067.909	20.56	
L0001096	378375.697	3747075.615	20.46	
L0001097	378379.494	3747083.320	20.37	
L0001098	378383.291	3747091.025	20.29	
L0001099	378387.087	3747098.731	20.22	
L0001100	378390.062	3747106.778	20.16	
L0001101	378392.863	3747114.899	20.10	
L0001102	378395.663	3747123.020	20.05	
L0001103	378398.463	3747131.141	20.01	
L0001104	378401.263	3747139.261	19.96	
L0001105	378404.064	3747147.382	19.91	
L0001106	378406.864	3747155.503	19.84	
L0001107	378409.664	3747163.624	19.77	
L0001108	378411.110	3747171.980	19.70	
L0001109	378411.222	3747180.570	19.64	
L0001110	378411.333	3747189.159	19.57	
L0001111	378411.445	3747197.748	19.51	
L0001112	378411.556	3747206.338	19.44	
L0001113	378411.668	3747214.927	19.37	
L0001114	378411.779	3747223.516	19.31	
L0001115	378407.185	3747227.484	19.35	
L0001116	378398.595	3747227.527	19.46	
L0001117	378390.005	3747227.570	19.57	
L0001118	378381.416	3747227.613	19.67	
L0001119	378372.826	3747227.656	19.78	
L0001120	378364.236	3747227.699	19.90	
L0001121	378355.646	3747227.742	19.98	
L0001122	378347.056	3747227.785	19.98	
L0001123	378338.466	3747227.828	19.99	
L0001124	378329.876	3747227.871	19.99	
L0001125	378321.286	3747227.914	19.99	
L0001126	378312.696	3747227.957	19.99	

LOCATION	L0001127	VOLUME	378304.107	3747228.000	19.99
LOCATION	L0001128	VOLUME	378295.517	3747228.043	19.99
LOCATION	L0001129	VOLUME	378286.927	3747228.086	19.99
LOCATION	L0001130	VOLUME	378278.337	3747228.129	19.99
LOCATION	L0001131	VOLUME	378269.747	3747228.172	19.99
LOCATION	L0001132	VOLUME	378261.157	3747228.216	19.99
LOCATION	L0001133	VOLUME	378252.567	3747228.259	20.00
LOCATION	L0001134	VOLUME	378243.977	3747228.302	20.00
LOCATION	L0001135	VOLUME	378235.387	3747228.345	20.00
LOCATION	L0001136	VOLUME	378226.797	3747228.388	20.00
LOCATION	L0001137	VOLUME	378218.208	3747228.431	20.00
LOCATION	L0001138	VOLUME	378209.618	3747228.474	20.00
LOCATION	L0001139	VOLUME	378201.028	3747228.517	20.03
LOCATION	L0001140	VOLUME	378192.438	3747228.560	20.14
LOCATION	L0001141	VOLUME	378183.848	3747228.603	20.25
LOCATION	L0001142	VOLUME	378175.258	3747228.646	20.36
LOCATION	L0001143	VOLUME	378166.668	3747228.689	20.47
LOCATION	L0001144	VOLUME	378158.078	3747228.732	20.58
LOCATION	L0001145	VOLUME	378149.488	3747228.775	20.70
LOCATION	L0001146	VOLUME	378140.899	3747228.818	20.81
LOCATION	L0001147	VOLUME	378132.309	3747228.861	20.92
LOCATION	L0001148	VOLUME	378123.719	3747228.904	21.00
LOCATION	L0001149	VOLUME	378115.129	3747228.947	21.00
LOCATION	L0001150	VOLUME	378106.539	3747228.991	21.00
LOCATION	L0001151	VOLUME	378098.043	3747229.807	21.00
LOCATION	L0001152	VOLUME	378098.151	3747238.397	20.94
LOCATION	L0001153	VOLUME	378098.258	3747246.986	20.88
LOCATION	L0001154	VOLUME	378098.365	3747255.575	20.82
LOCATION	L0001155	VOLUME	378098.473	3747264.165	20.76
LOCATION	L0001156	VOLUME	378098.580	3747272.754	20.70
LOCATION	L0001157	VOLUME	378098.687	3747281.343	20.64
LOCATION	L0001158	VOLUME	378098.795	3747289.933	20.58
LOCATION	L0001159	VOLUME	378098.902	3747298.522	20.52
LOCATION	L0001160	VOLUME	378099.009	3747307.111	20.47
LOCATION	L0001161	VOLUME	378099.117	3747315.701	20.41
LOCATION	L0001162	VOLUME	378099.224	3747324.290	20.35
LOCATION	L0001163	VOLUME	378099.332	3747332.879	20.32
LOCATION	L0001164	VOLUME	378099.439	3747341.469	20.29
LOCATION	L0001165	VOLUME	378099.546	3747350.058	20.25
LOCATION	L0001166	VOLUME	378099.654	3747358.647	20.22
LOCATION	L0001167	VOLUME	378099.761	3747367.237	20.19
LOCATION	L0001168	VOLUME	378099.868	3747375.826	20.15
LOCATION	L0001169	VOLUME	378099.976	3747384.415	20.12
LOCATION	L0001170	VOLUME	378100.083	3747393.005	20.08
LOCATION	L0001171	VOLUME	378100.190	3747401.594	20.05
LOCATION	L0001172	VOLUME	378100.298	3747410.183	20.02
LOCATION	L0001173	VOLUME	378100.405	3747418.773	19.97
LOCATION	L0001174	VOLUME	378100.513	3747427.362	19.91
LOCATION	L0001175	VOLUME	378100.620	3747435.951	19.85
LOCATION	L0001176	VOLUME	378100.727	3747444.541	19.79

LOCATION L0001177	VOLUME	378100.835	3747453.130	19.73
LOCATION L0001178	VOLUME	378100.942	3747461.719	19.67
LOCATION L0001179	VOLUME	378101.049	3747470.309	19.61
LOCATION L0001180	VOLUME	378101.157	3747478.898	19.56
LOCATION L0001181	VOLUME	378101.264	3747487.487	19.50
LOCATION L0001182	VOLUME	378101.371	3747496.077	19.44
LOCATION L0001183	VOLUME	378101.479	3747504.666	19.38
LOCATION L0001184	VOLUME	378101.586	3747513.255	19.34
LOCATION L0001185	VOLUME	378101.694	3747521.845	19.30
LOCATION L0001186	VOLUME	378101.801	3747530.434	19.27
LOCATION L0001187	VOLUME	378101.908	3747539.023	19.24

** END OF LINE VOLUME SOURCE ID = SLINE7

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE8

** DESCRSRC OFF-SITE TRAVEL 15%

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 3.627E-06

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 4

** 378480.181, 3746747.458, 21.00, 3.49, 4.00

** 378382.316, 3746764.546, 21.00, 3.49, 4.00

** 378320.180, 3746764.546, 21.00, 3.49, 4.00

** 378091.829, 3746766.099, 21.00, 3.49, 4.00

**

LOCATION L0001188	VOLUME	378475.950	3746748.197	21.00
LOCATION L0001189	VOLUME	378467.488	3746749.674	21.00
LOCATION L0001190	VOLUME	378459.026	3746751.152	21.00
LOCATION L0001191	VOLUME	378450.564	3746752.629	21.00
LOCATION L0001192	VOLUME	378442.102	3746754.107	21.00
LOCATION L0001193	VOLUME	378433.640	3746755.584	21.00
LOCATION L0001194	VOLUME	378425.178	3746757.062	21.00
LOCATION L0001195	VOLUME	378416.716	3746758.539	21.00
LOCATION L0001196	VOLUME	378408.254	3746760.017	21.00
LOCATION L0001197	VOLUME	378399.792	3746761.494	21.00
LOCATION L0001198	VOLUME	378391.330	3746762.972	21.00
LOCATION L0001199	VOLUME	378382.868	3746764.449	21.00
LOCATION L0001200	VOLUME	378374.286	3746764.546	21.00
LOCATION L0001201	VOLUME	378365.696	3746764.546	21.00
LOCATION L0001202	VOLUME	378357.106	3746764.546	21.00
LOCATION L0001203	VOLUME	378348.516	3746764.546	21.00
LOCATION L0001204	VOLUME	378339.926	3746764.546	21.00
LOCATION L0001205	VOLUME	378331.336	3746764.546	21.00
LOCATION L0001206	VOLUME	378322.746	3746764.546	21.00
LOCATION L0001207	VOLUME	378314.156	3746764.587	21.00
LOCATION L0001208	VOLUME	378305.566	3746764.645	21.00
LOCATION L0001209	VOLUME	378296.977	3746764.703	21.00

LOCATION L0001210	VOLUME	378288.387	3746764.762	21.00
LOCATION L0001211	VOLUME	378279.797	3746764.820	21.00
LOCATION L0001212	VOLUME	378271.207	3746764.879	21.00
LOCATION L0001213	VOLUME	378262.617	3746764.937	21.00
LOCATION L0001214	VOLUME	378254.028	3746764.996	21.00
LOCATION L0001215	VOLUME	378245.438	3746765.054	21.00
LOCATION L0001216	VOLUME	378236.848	3746765.112	21.00
LOCATION L0001217	VOLUME	378228.258	3746765.171	21.00
LOCATION L0001218	VOLUME	378219.668	3746765.229	21.00
LOCATION L0001219	VOLUME	378211.079	3746765.288	21.00
LOCATION L0001220	VOLUME	378202.489	3746765.346	21.00
LOCATION L0001221	VOLUME	378193.899	3746765.405	21.00
LOCATION L0001222	VOLUME	378185.309	3746765.463	21.00
LOCATION L0001223	VOLUME	378176.719	3746765.522	21.00
LOCATION L0001224	VOLUME	378168.130	3746765.580	21.00
LOCATION L0001225	VOLUME	378159.540	3746765.638	21.00
LOCATION L0001226	VOLUME	378150.950	3746765.697	21.00
LOCATION L0001227	VOLUME	378142.360	3746765.755	21.00
LOCATION L0001228	VOLUME	378133.770	3746765.814	21.00
LOCATION L0001229	VOLUME	378125.181	3746765.872	21.00
LOCATION L0001230	VOLUME	378116.591	3746765.931	21.00
LOCATION L0001231	VOLUME	378108.001	3746765.989	21.00
LOCATION L0001232	VOLUME	378099.411	3746766.047	21.00

** END OF LINE VOLUME SOURCE ID = SLINE8

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE9

** DESCRSRC OFF-SITE TRAVEL 28%

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 5.307E-06

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 3

** 378415.714, 3747229.014, 19.07, 3.49, 4.00

** 378685.230, 3747225.907, 18.03, 3.49, 4.00

** 378685.230, 3747375.034, 17.19, 3.49, 4.00

**

LOCATION L0001233	VOLUME	378420.009	3747228.964	19.18
LOCATION L0001234	VOLUME	378428.598	3747228.865	19.07
LOCATION L0001235	VOLUME	378437.188	3747228.766	19.00
LOCATION L0001236	VOLUME	378445.777	3747228.667	18.99
LOCATION L0001237	VOLUME	378454.367	3747228.568	18.99
LOCATION L0001238	VOLUME	378462.956	3747228.469	18.99
LOCATION L0001239	VOLUME	378471.546	3747228.370	18.98
LOCATION L0001240	VOLUME	378480.135	3747228.271	18.98
LOCATION L0001241	VOLUME	378488.724	3747228.172	18.97
LOCATION L0001242	VOLUME	378497.314	3747228.073	18.97
LOCATION L0001243	VOLUME	378505.903	3747227.974	18.96

LOCATION L0001244	VOLUME	378514.493	3747227.875	18.92
LOCATION L0001245	VOLUME	378523.082	3747227.776	18.82
LOCATION L0001246	VOLUME	378531.672	3747227.677	18.71
LOCATION L0001247	VOLUME	378540.261	3747227.578	18.60
LOCATION L0001248	VOLUME	378548.850	3747227.479	18.50
LOCATION L0001249	VOLUME	378557.440	3747227.380	18.39
LOCATION L0001250	VOLUME	378566.029	3747227.281	18.28
LOCATION L0001251	VOLUME	378574.619	3747227.182	18.17
LOCATION L0001252	VOLUME	378583.208	3747227.083	18.07
LOCATION L0001253	VOLUME	378591.798	3747226.984	18.00
LOCATION L0001254	VOLUME	378600.387	3747226.885	18.00
LOCATION L0001255	VOLUME	378608.976	3747226.786	18.00
LOCATION L0001256	VOLUME	378617.566	3747226.687	18.00
LOCATION L0001257	VOLUME	378626.155	3747226.588	18.00
LOCATION L0001258	VOLUME	378634.745	3747226.489	18.00
LOCATION L0001259	VOLUME	378643.334	3747226.390	18.00
LOCATION L0001260	VOLUME	378651.924	3747226.291	18.00
LOCATION L0001261	VOLUME	378660.513	3747226.192	18.00
LOCATION L0001262	VOLUME	378669.102	3747226.093	18.00
LOCATION L0001263	VOLUME	378677.692	3747225.994	17.99
LOCATION L0001264	VOLUME	378685.230	3747226.958	17.99
LOCATION L0001265	VOLUME	378685.230	3747235.548	17.96
LOCATION L0001266	VOLUME	378685.230	3747244.138	17.94
LOCATION L0001267	VOLUME	378685.230	3747252.728	17.92
LOCATION L0001268	VOLUME	378685.230	3747261.318	17.89
LOCATION L0001269	VOLUME	378685.230	3747269.908	17.87
LOCATION L0001270	VOLUME	378685.230	3747278.498	17.85
LOCATION L0001271	VOLUME	378685.230	3747287.088	17.83
LOCATION L0001272	VOLUME	378685.230	3747295.678	17.81
LOCATION L0001273	VOLUME	378685.230	3747304.268	17.79
LOCATION L0001274	VOLUME	378685.230	3747312.858	17.77
LOCATION L0001275	VOLUME	378685.230	3747321.448	17.71
LOCATION L0001276	VOLUME	378685.230	3747330.038	17.64
LOCATION L0001277	VOLUME	378685.230	3747338.628	17.57
LOCATION L0001278	VOLUME	378685.230	3747347.218	17.50
LOCATION L0001279	VOLUME	378685.230	3747355.808	17.42
LOCATION L0001280	VOLUME	378685.230	3747364.398	17.35
LOCATION L0001281	VOLUME	378685.230	3747372.988	17.28

** END OF LINE VOLUME SOURCE ID = SLINE9

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE10

** DESCRSRC OFF-SITE TRAVEL 15%

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 7.881E-06

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 6

** 378870.862, 3747001.440, 18.09, 3.49, 4.00
 ** 378870.862, 3747110.178, 17.96, 3.49, 4.00
 ** 378877.852, 3747175.421, 17.44, 3.49, 4.00
 ** 378894.639, 3747255.422, 17.00, 3.49, 4.00
 ** 378898.738, 3747348.410, 17.00, 3.49, 4.00
 ** 378901.930, 3747510.180, 17.00, 3.49, 4.00

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LOCATION	L0001282	VOLUME	378870.862	3747005.735	18.10
LOCATION	L0001283	VOLUME	378870.862	3747014.325	18.07
LOCATION	L0001284	VOLUME	378870.862	3747022.915	18.04
LOCATION	L0001285	VOLUME	378870.862	3747031.505	18.01
LOCATION	L0001286	VOLUME	378870.862	3747040.095	18.00
LOCATION	L0001287	VOLUME	378870.862	3747048.685	18.00
LOCATION	L0001288	VOLUME	378870.862	3747057.275	18.00
LOCATION	L0001289	VOLUME	378870.862	3747065.865	18.00
LOCATION	L0001290	VOLUME	378870.862	3747074.455	18.00
LOCATION	L0001291	VOLUME	378870.862	3747083.045	18.00
LOCATION	L0001292	VOLUME	378870.862	3747091.635	18.00
LOCATION	L0001293	VOLUME	378870.862	3747100.225	18.00
LOCATION	L0001294	VOLUME	378870.862	3747108.815	18.00
LOCATION	L0001295	VOLUME	378871.632	3747117.364	18.00
LOCATION	L0001296	VOLUME	378872.547	3747125.905	18.00
LOCATION	L0001297	VOLUME	378873.462	3747134.446	17.92
LOCATION	L0001298	VOLUME	378874.377	3747142.987	17.83
LOCATION	L0001299	VOLUME	378875.292	3747151.528	17.74
LOCATION	L0001300	VOLUME	378876.207	3747160.069	17.64
LOCATION	L0001301	VOLUME	378877.122	3747168.610	17.55
LOCATION	L0001302	VOLUME	378878.210	3747177.124	17.46
LOCATION	L0001303	VOLUME	378879.974	3747185.531	17.37
LOCATION	L0001304	VOLUME	378881.738	3747193.938	17.28
LOCATION	L0001305	VOLUME	378883.502	3747202.345	17.19
LOCATION	L0001306	VOLUME	378885.266	3747210.752	17.09
LOCATION	L0001307	VOLUME	378887.030	3747219.159	17.00
LOCATION	L0001308	VOLUME	378888.794	3747227.566	17.00
LOCATION	L0001309	VOLUME	378890.558	3747235.973	17.00
LOCATION	L0001310	VOLUME	378892.322	3747244.380	17.00
LOCATION	L0001311	VOLUME	378894.086	3747252.787	17.00
LOCATION	L0001312	VOLUME	378894.898	3747261.314	17.00
LOCATION	L0001313	VOLUME	378895.277	3747269.895	17.00
LOCATION	L0001314	VOLUME	378895.655	3747278.477	17.00
LOCATION	L0001315	VOLUME	378896.033	3747287.059	17.00
LOCATION	L0001316	VOLUME	378896.412	3747295.640	17.00
LOCATION	L0001317	VOLUME	378896.790	3747304.222	17.00
LOCATION	L0001318	VOLUME	378897.168	3747312.804	17.00
LOCATION	L0001319	VOLUME	378897.546	3747321.385	17.00
LOCATION	L0001320	VOLUME	378897.925	3747329.967	17.00
LOCATION	L0001321	VOLUME	378898.303	3747338.549	17.00
LOCATION	L0001322	VOLUME	378898.681	3747347.130	17.00
LOCATION	L0001323	VOLUME	378898.882	3747355.718	17.00
LOCATION	L0001324	VOLUME	378899.051	3747364.306	17.00

LOCATION L0001325	VOLUME	378899.221	3747372.894	17.00
LOCATION L0001326	VOLUME	378899.390	3747381.483	17.00
LOCATION L0001327	VOLUME	378899.560	3747390.071	17.00
LOCATION L0001328	VOLUME	378899.729	3747398.659	17.00
LOCATION L0001329	VOLUME	378899.899	3747407.247	17.00
LOCATION L0001330	VOLUME	378900.068	3747415.836	17.00
LOCATION L0001331	VOLUME	378900.238	3747424.424	17.00
LOCATION L0001332	VOLUME	378900.407	3747433.012	17.00
LOCATION L0001333	VOLUME	378900.577	3747441.601	17.00
LOCATION L0001334	VOLUME	378900.746	3747450.189	17.00
LOCATION L0001335	VOLUME	378900.916	3747458.777	17.00
LOCATION L0001336	VOLUME	378901.085	3747467.366	17.00
LOCATION L0001337	VOLUME	378901.255	3747475.954	17.00
LOCATION L0001338	VOLUME	378901.424	3747484.542	17.00
LOCATION L0001339	VOLUME	378901.594	3747493.131	17.00
LOCATION L0001340	VOLUME	378901.763	3747501.719	17.00

** END OF LINE VOLUME SOURCE ID = SLINE10

** -----

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE11

** DESCRSRC OFF-SITE TRAVEL 10%

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 7.191E-06

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 6

** 378870.862, 3747001.440, 18.09, 3.49, 4.00

** 378870.862, 3747110.178, 17.96, 3.49, 4.00

** 378877.852, 3747175.421, 17.44, 3.49, 4.00

** 378890.070, 3747221.611, 17.12, 3.49, 4.00

** 378686.735, 3747223.777, 18.04, 3.49, 4.00

** 378684.445, 3747372.196, 17.22, 3.49, 4.00

** -----

LOCATION L0001341	VOLUME	378870.862	3747005.735	18.10
LOCATION L0001342	VOLUME	378870.862	3747014.325	18.07
LOCATION L0001343	VOLUME	378870.862	3747022.915	18.04
LOCATION L0001344	VOLUME	378870.862	3747031.505	18.01
LOCATION L0001345	VOLUME	378870.862	3747040.095	18.00
LOCATION L0001346	VOLUME	378870.862	3747048.685	18.00
LOCATION L0001347	VOLUME	378870.862	3747057.275	18.00
LOCATION L0001348	VOLUME	378870.862	3747065.865	18.00
LOCATION L0001349	VOLUME	378870.862	3747074.455	18.00
LOCATION L0001350	VOLUME	378870.862	3747083.045	18.00
LOCATION L0001351	VOLUME	378870.862	3747091.635	18.00
LOCATION L0001352	VOLUME	378870.862	3747100.225	18.00
LOCATION L0001353	VOLUME	378870.862	3747108.815	18.00
LOCATION L0001354	VOLUME	378871.632	3747117.364	18.00
LOCATION L0001355	VOLUME	378872.547	3747125.905	18.00

LOCATION	L0001356	VOLUME	378873.462	3747134.446	17.92
LOCATION	L0001357	VOLUME	378874.377	3747142.987	17.83
LOCATION	L0001358	VOLUME	378875.292	3747151.528	17.74
LOCATION	L0001359	VOLUME	378876.207	3747160.069	17.64
LOCATION	L0001360	VOLUME	378877.122	3747168.610	17.55
LOCATION	L0001361	VOLUME	378878.297	3747177.104	17.46
LOCATION	L0001362	VOLUME	378880.494	3747185.408	17.37
LOCATION	L0001363	VOLUME	378882.690	3747193.712	17.28
LOCATION	L0001364	VOLUME	378884.887	3747202.017	17.19
LOCATION	L0001365	VOLUME	378887.084	3747210.321	17.10
LOCATION	L0001366	VOLUME	378889.280	3747218.626	17.01
LOCATION	L0001367	VOLUME	378884.568	3747221.669	17.00
LOCATION	L0001368	VOLUME	378875.978	3747221.761	17.00
LOCATION	L0001369	VOLUME	378867.389	3747221.852	17.00
LOCATION	L0001370	VOLUME	378858.799	3747221.944	17.00
LOCATION	L0001371	VOLUME	378850.210	3747222.035	17.00
LOCATION	L0001372	VOLUME	378841.620	3747222.127	17.00
LOCATION	L0001373	VOLUME	378833.031	3747222.218	17.00
LOCATION	L0001374	VOLUME	378824.441	3747222.310	17.00
LOCATION	L0001375	VOLUME	378815.852	3747222.401	17.05
LOCATION	L0001376	VOLUME	378807.262	3747222.493	17.16
LOCATION	L0001377	VOLUME	378798.673	3747222.584	17.27
LOCATION	L0001378	VOLUME	378790.083	3747222.676	17.38
LOCATION	L0001379	VOLUME	378781.494	3747222.767	17.49
LOCATION	L0001380	VOLUME	378772.904	3747222.859	17.60
LOCATION	L0001381	VOLUME	378764.315	3747222.950	17.71
LOCATION	L0001382	VOLUME	378755.725	3747223.042	17.82
LOCATION	L0001383	VOLUME	378747.136	3747223.133	17.92
LOCATION	L0001384	VOLUME	378738.546	3747223.225	17.98
LOCATION	L0001385	VOLUME	378729.957	3747223.316	17.98
LOCATION	L0001386	VOLUME	378721.367	3747223.408	17.99
LOCATION	L0001387	VOLUME	378712.778	3747223.499	17.99
LOCATION	L0001388	VOLUME	378704.188	3747223.591	17.99
LOCATION	L0001389	VOLUME	378695.599	3747223.682	17.99
LOCATION	L0001390	VOLUME	378687.009	3747223.774	17.99
LOCATION	L0001391	VOLUME	378686.607	3747232.092	17.97
LOCATION	L0001392	VOLUME	378686.474	3747240.681	17.95
LOCATION	L0001393	VOLUME	378686.342	3747249.270	17.92
LOCATION	L0001394	VOLUME	378686.209	3747257.859	17.90
LOCATION	L0001395	VOLUME	378686.077	3747266.448	17.88
LOCATION	L0001396	VOLUME	378685.944	3747275.037	17.85
LOCATION	L0001397	VOLUME	378685.812	3747283.626	17.83
LOCATION	L0001398	VOLUME	378685.679	3747292.215	17.81
LOCATION	L0001399	VOLUME	378685.547	3747300.804	17.79
LOCATION	L0001400	VOLUME	378685.414	3747309.393	17.77
LOCATION	L0001401	VOLUME	378685.281	3747317.982	17.73
LOCATION	L0001402	VOLUME	378685.149	3747326.571	17.66
LOCATION	L0001403	VOLUME	378685.016	3747335.160	17.60
LOCATION	L0001404	VOLUME	378684.884	3747343.749	17.53
LOCATION	L0001405	VOLUME	378684.751	3747352.338	17.46

LOCATION L0001406 VOLUME 378684.619 3747360.927 17.39
LOCATION L0001407 VOLUME 378684.486 3747369.516 17.32

** END OF LINE VOLUME SOURCE ID = SLINE11

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE12

** DESCRSRC OFF-SITE TRAVEL 10%

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 5.499E-06

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 6

** 378479.664, 3746749.155, 21.00, 3.49, 4.00

** 378547.281, 3746744.469, 20.94, 3.49, 4.00

** 378676.490, 3746744.469, 20.11, 3.49, 4.00

** 378734.065, 3746759.867, 20.00, 3.49, 4.00

** 378867.959, 3746753.172, 19.47, 3.49, 4.00

** 378868.629, 3746561.703, 20.01, 3.49, 4.00

**

LOCATION L0001408 VOLUME 378483.949 3746748.858 21.00

LOCATION L0001409 VOLUME 378492.518 3746748.265 21.00

LOCATION L0001410 VOLUME 378501.088 3746747.671 21.00

LOCATION L0001411 VOLUME 378509.657 3746747.077 21.00

LOCATION L0001412 VOLUME 378518.227 3746746.483 21.00

LOCATION L0001413 VOLUME 378526.796 3746745.889 21.00

LOCATION L0001414 VOLUME 378535.366 3746745.295 21.00

LOCATION L0001415 VOLUME 378543.935 3746744.701 21.00

LOCATION L0001416 VOLUME 378552.517 3746744.469 21.00

LOCATION L0001417 VOLUME 378561.107 3746744.469 21.00

LOCATION L0001418 VOLUME 378569.697 3746744.469 21.00

LOCATION L0001419 VOLUME 378578.287 3746744.469 21.00

LOCATION L0001420 VOLUME 378586.877 3746744.469 20.95

LOCATION L0001421 VOLUME 378595.467 3746744.469 20.86

LOCATION L0001422 VOLUME 378604.057 3746744.469 20.77

LOCATION L0001423 VOLUME 378612.647 3746744.469 20.68

LOCATION L0001424 VOLUME 378621.237 3746744.469 20.59

LOCATION L0001425 VOLUME 378629.827 3746744.469 20.49

LOCATION L0001426 VOLUME 378638.417 3746744.469 20.40

LOCATION L0001427 VOLUME 378647.007 3746744.469 20.31

LOCATION L0001428 VOLUME 378655.597 3746744.469 20.21

LOCATION L0001429 VOLUME 378664.187 3746744.469 20.17

LOCATION L0001430 VOLUME 378672.777 3746744.469 20.17

LOCATION L0001431 VOLUME 378681.201 3746745.729 20.15

LOCATION L0001432 VOLUME 378689.500 3746747.949 20.13

LOCATION L0001433 VOLUME 378697.798 3746750.168 20.10

LOCATION L0001434 VOLUME 378706.097 3746752.387 20.08

LOCATION L0001435 VOLUME 378714.395 3746754.607 20.05

LOCATION L0001436 VOLUME 378722.693 3746756.826 20.03

LOCATION L0001437	VOLUME	378730.992	3746759.045	20.00
LOCATION L0001438	VOLUME	378739.467	3746759.597	20.00
LOCATION L0001439	VOLUME	378748.046	3746759.168	20.00
LOCATION L0001440	VOLUME	378756.625	3746758.739	20.00
LOCATION L0001441	VOLUME	378765.205	3746758.310	20.00
LOCATION L0001442	VOLUME	378773.784	3746757.881	20.01
LOCATION L0001443	VOLUME	378782.363	3746757.452	20.01
LOCATION L0001444	VOLUME	378790.943	3746757.023	20.01
LOCATION L0001445	VOLUME	378799.522	3746756.594	20.00
LOCATION L0001446	VOLUME	378808.101	3746756.165	20.00
LOCATION L0001447	VOLUME	378816.680	3746755.736	19.96
LOCATION L0001448	VOLUME	378825.260	3746755.307	19.85
LOCATION L0001449	VOLUME	378833.839	3746754.878	19.74
LOCATION L0001450	VOLUME	378842.418	3746754.449	19.63
LOCATION L0001451	VOLUME	378850.997	3746754.020	19.52
LOCATION L0001452	VOLUME	378859.577	3746753.591	19.41
LOCATION L0001453	VOLUME	378867.960	3746752.975	19.30
LOCATION L0001454	VOLUME	378867.990	3746744.385	19.30
LOCATION L0001455	VOLUME	378868.020	3746735.795	19.30
LOCATION L0001456	VOLUME	378868.050	3746727.206	19.29
LOCATION L0001457	VOLUME	378868.080	3746718.616	19.29
LOCATION L0001458	VOLUME	378868.110	3746710.026	19.29
LOCATION L0001459	VOLUME	378868.140	3746701.436	19.29
LOCATION L0001460	VOLUME	378868.170	3746692.846	19.29
LOCATION L0001461	VOLUME	378868.200	3746684.256	19.28
LOCATION L0001462	VOLUME	378868.230	3746675.666	19.28
LOCATION L0001463	VOLUME	378868.260	3746667.076	19.28
LOCATION L0001464	VOLUME	378868.290	3746658.486	19.33
LOCATION L0001465	VOLUME	378868.320	3746649.896	19.40
LOCATION L0001466	VOLUME	378868.351	3746641.306	19.46
LOCATION L0001467	VOLUME	378868.381	3746632.716	19.53
LOCATION L0001468	VOLUME	378868.411	3746624.126	19.60
LOCATION L0001469	VOLUME	378868.441	3746615.536	19.66
LOCATION L0001470	VOLUME	378868.471	3746606.946	19.73
LOCATION L0001471	VOLUME	378868.501	3746598.356	19.80
LOCATION L0001472	VOLUME	378868.531	3746589.766	19.86
LOCATION L0001473	VOLUME	378868.561	3746581.176	19.93
LOCATION L0001474	VOLUME	378868.591	3746572.586	20.00
LOCATION L0001475	VOLUME	378868.621	3746563.997	20.02

** END OF LINE VOLUME SOURCE ID = SLINE12

**

** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES

** LINE VOLUME SOURCE ID = SLINE13

** DESCRSRC OFF-SITE TRAVEL 7%

** PREFIX

** LENGTH OF SIDE = 8.59

** CONFIGURATION = ADJACENT

** EMISSION RATE = 3.738E-06

** VERTICAL DIMENSION = 6.99

** SZINIT = 3.25

** NODES = 2
** 378868.769, 3747000.677, 18.09, 3.49, 4.00
** 378868.769, 3746758.281, 19.47, 3.49, 4.00

** -----
LOCATION L0001476 VOLUME 378868.769 3746996.382 18.14
LOCATION L0001477 VOLUME 378868.769 3746987.792 18.17
LOCATION L0001478 VOLUME 378868.769 3746979.202 18.20
LOCATION L0001479 VOLUME 378868.769 3746970.612 18.23
LOCATION L0001480 VOLUME 378868.769 3746962.022 18.25
LOCATION L0001481 VOLUME 378868.769 3746953.432 18.28
LOCATION L0001482 VOLUME 378868.769 3746944.842 18.31
LOCATION L0001483 VOLUME 378868.769 3746936.252 18.36
LOCATION L0001484 VOLUME 378868.769 3746927.662 18.43
LOCATION L0001485 VOLUME 378868.769 3746919.072 18.49
LOCATION L0001486 VOLUME 378868.769 3746910.482 18.55
LOCATION L0001487 VOLUME 378868.769 3746901.892 18.61
LOCATION L0001488 VOLUME 378868.769 3746893.302 18.68
LOCATION L0001489 VOLUME 378868.769 3746884.712 18.74
LOCATION L0001490 VOLUME 378868.769 3746876.122 18.80
LOCATION L0001491 VOLUME 378868.769 3746867.532 18.87
LOCATION L0001492 VOLUME 378868.769 3746858.942 18.93
LOCATION L0001493 VOLUME 378868.769 3746850.352 19.00
LOCATION L0001494 VOLUME 378868.769 3746841.762 19.03
LOCATION L0001495 VOLUME 378868.769 3746833.172 19.06
LOCATION L0001496 VOLUME 378868.769 3746824.582 19.08
LOCATION L0001497 VOLUME 378868.769 3746815.992 19.11
LOCATION L0001498 VOLUME 378868.769 3746807.402 19.14
LOCATION L0001499 VOLUME 378868.769 3746798.812 19.16
LOCATION L0001500 VOLUME 378868.769 3746790.222 19.19
LOCATION L0001501 VOLUME 378868.769 3746781.632 19.22
LOCATION L0001502 VOLUME 378868.769 3746773.042 19.24
LOCATION L0001503 VOLUME 378868.769 3746764.452 19.27

** END OF LINE VOLUME SOURCE ID = SLINE13

** SOURCE PARAMETERS **

** LINE VOLUME SOURCE ID = SLINE1

SRCPARAM L0000973	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000974	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000975	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000976	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000977	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000978	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000979	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000980	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000981	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000982	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000983	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000984	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000985	0.0000002471	3.49	4.00	3.25
SRCPARAM L0000986	0.0000002471	3.49	4.00	3.25

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** LINE VOLUME SOURCE ID = SLINE2

SRCPARAM L0000987	0.000000246	3.49	4.00	3.25
SRCPARAM L0000988	0.000000246	3.49	4.00	3.25
SRCPARAM L0000989	0.000000246	3.49	4.00	3.25
SRCPARAM L0000990	0.000000246	3.49	4.00	3.25
SRCPARAM L0000991	0.000000246	3.49	4.00	3.25
SRCPARAM L0000992	0.000000246	3.49	4.00	3.25
SRCPARAM L0000993	0.000000246	3.49	4.00	3.25
SRCPARAM L0000994	0.000000246	3.49	4.00	3.25
SRCPARAM L0000995	0.000000246	3.49	4.00	3.25
SRCPARAM L0000996	0.000000246	3.49	4.00	3.25
SRCPARAM L0000997	0.000000246	3.49	4.00	3.25
SRCPARAM L0000998	0.000000246	3.49	4.00	3.25
SRCPARAM L0000999	0.000000246	3.49	4.00	3.25
SRCPARAM L0001000	0.000000246	3.49	4.00	3.25
SRCPARAM L0001001	0.000000246	3.49	4.00	3.25

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** LINE VOLUME SOURCE ID = SLINE3

SRCPARAM L0001002	0.000000442	3.49	4.00	3.25
SRCPARAM L0001003	0.000000442	3.49	4.00	3.25
SRCPARAM L0001004	0.000000442	3.49	4.00	3.25
SRCPARAM L0001005	0.000000442	3.49	4.00	3.25
SRCPARAM L0001006	0.000000442	3.49	4.00	3.25
SRCPARAM L0001007	0.000000442	3.49	4.00	3.25
SRCPARAM L0001008	0.000000442	3.49	4.00	3.25
SRCPARAM L0001009	0.000000442	3.49	4.00	3.25
SRCPARAM L0001010	0.000000442	3.49	4.00	3.25

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** LINE VOLUME SOURCE ID = SLINE4

SRCPARAM L0001011	0.0000004484	3.49	4.00	3.25
SRCPARAM L0001012	0.0000004484	3.49	4.00	3.25
SRCPARAM L0001013	0.0000004484	3.49	4.00	3.25
SRCPARAM L0001014	0.0000004484	3.49	4.00	3.25
SRCPARAM L0001015	0.0000004484	3.49	4.00	3.25
SRCPARAM L0001016	0.0000004484	3.49	4.00	3.25
SRCPARAM L0001017	0.0000004484	3.49	4.00	3.25
SRCPARAM L0001018	0.0000004484	3.49	4.00	3.25
SRCPARAM L0001019	0.0000004484	3.49	4.00	3.25

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** LINE VOLUME SOURCE ID = SLINE5

SRCPARAM L0001020	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001021	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001022	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001023	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001024	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001025	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001026	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001027	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001028	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001029	0.0000002738	3.49	4.00	3.25

SRCPARAM L0001030	0.0000002738	3.49	4.00	3.25
SRCPARAM L0001031	0.0000002738	3.49	4.00	3.25

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** LINE VOLUME SOURCE ID = SLINE6

SRCPARAM L0001032	0.00000026	3.49	4.00	3.25
SRCPARAM L0001033	0.00000026	3.49	4.00	3.25
SRCPARAM L0001034	0.00000026	3.49	4.00	3.25
SRCPARAM L0001035	0.00000026	3.49	4.00	3.25
SRCPARAM L0001036	0.00000026	3.49	4.00	3.25
SRCPARAM L0001037	0.00000026	3.49	4.00	3.25
SRCPARAM L0001038	0.00000026	3.49	4.00	3.25
SRCPARAM L0001039	0.00000026	3.49	4.00	3.25
SRCPARAM L0001040	0.00000026	3.49	4.00	3.25
SRCPARAM L0001041	0.00000026	3.49	4.00	3.25
SRCPARAM L0001042	0.00000026	3.49	4.00	3.25
SRCPARAM L0001043	0.00000026	3.49	4.00	3.25
SRCPARAM L0001044	0.00000026	3.49	4.00	3.25
SRCPARAM L0001045	0.00000026	3.49	4.00	3.25
SRCPARAM L0001046	0.00000026	3.49	4.00	3.25
SRCPARAM L0001047	0.00000026	3.49	4.00	3.25
SRCPARAM L0001048	0.00000026	3.49	4.00	3.25
SRCPARAM L0001049	0.00000026	3.49	4.00	3.25
SRCPARAM L0001050	0.00000026	3.49	4.00	3.25
SRCPARAM L0001051	0.00000026	3.49	4.00	3.25
SRCPARAM L0001052	0.00000026	3.49	4.00	3.25
SRCPARAM L0001053	0.00000026	3.49	4.00	3.25
SRCPARAM L0001054	0.00000026	3.49	4.00	3.25
SRCPARAM L0001055	0.00000026	3.49	4.00	3.25
SRCPARAM L0001056	0.00000026	3.49	4.00	3.25
SRCPARAM L0001057	0.00000026	3.49	4.00	3.25
SRCPARAM L0001058	0.00000026	3.49	4.00	3.25
SRCPARAM L0001059	0.00000026	3.49	4.00	3.25
SRCPARAM L0001060	0.00000026	3.49	4.00	3.25
SRCPARAM L0001061	0.00000026	3.49	4.00	3.25
SRCPARAM L0001062	0.00000026	3.49	4.00	3.25
SRCPARAM L0001063	0.00000026	3.49	4.00	3.25
SRCPARAM L0001064	0.00000026	3.49	4.00	3.25
SRCPARAM L0001065	0.00000026	3.49	4.00	3.25
SRCPARAM L0001066	0.00000026	3.49	4.00	3.25
SRCPARAM L0001067	0.00000026	3.49	4.00	3.25
SRCPARAM L0001068	0.00000026	3.49	4.00	3.25
SRCPARAM L0001069	0.00000026	3.49	4.00	3.25
SRCPARAM L0001070	0.00000026	3.49	4.00	3.25
SRCPARAM L0001071	0.00000026	3.49	4.00	3.25
SRCPARAM L0001072	0.00000026	3.49	4.00	3.25
SRCPARAM L0001073	0.00000026	3.49	4.00	3.25
SRCPARAM L0001074	0.00000026	3.49	4.00	3.25
SRCPARAM L0001075	0.00000026	3.49	4.00	3.25
SRCPARAM L0001076	0.00000026	3.49	4.00	3.25
SRCPARAM L0001077	0.00000026	3.49	4.00	3.25

SRCPARAM L0001078	0.00000026	3.49	4.00	3.25
SRCPARAM L0001079	0.00000026	3.49	4.00	3.25
SRCPARAM L0001080	0.00000026	3.49	4.00	3.25
SRCPARAM L0001081	0.00000026	3.49	4.00	3.25
SRCPARAM L0001082	0.00000026	3.49	4.00	3.25
SRCPARAM L0001083	0.00000026	3.49	4.00	3.25
SRCPARAM L0001084	0.00000026	3.49	4.00	3.25
SRCPARAM L0001085	0.00000026	3.49	4.00	3.25
SRCPARAM L0001086	0.00000026	3.49	4.00	3.25
SRCPARAM L0001087	0.00000026	3.49	4.00	3.25

**

** LINE VOLUME SOURCE ID = SLINE7

SRCPARAM L0001088	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001089	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001090	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001091	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001092	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001093	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001094	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001095	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001096	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001097	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001098	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001099	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001100	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001101	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001102	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001103	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001104	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001105	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001106	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001107	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001108	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001109	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001110	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001111	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001112	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001113	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001114	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001115	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001116	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001117	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001118	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001119	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001120	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001121	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001122	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001123	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001124	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001125	0.0000001085	3.49	4.00	3.25

SRCPARAM L0001176	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001177	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001178	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001179	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001180	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001181	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001182	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001183	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001184	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001185	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001186	0.0000001085	3.49	4.00	3.25
SRCPARAM L0001187	0.0000001085	3.49	4.00	3.25

**

** LINE VOLUME SOURCE ID = SLINE8

SRCPARAM L0001188	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001189	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001190	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001191	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001192	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001193	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001194	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001195	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001196	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001197	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001198	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001199	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001200	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001201	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001202	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001203	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001204	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001205	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001206	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001207	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001208	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001209	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001210	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001211	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001212	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001213	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001214	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001215	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001216	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001217	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001218	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001219	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001220	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001221	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001222	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001223	0.0000000806	3.49	4.00	3.25

SRCPARAM L0001224	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001225	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001226	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001227	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001228	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001229	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001230	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001231	0.0000000806	3.49	4.00	3.25
SRCPARAM L0001232	0.0000000806	3.49	4.00	3.25

**

** LINE VOLUME SOURCE ID = SLINE9

SRCPARAM L0001233	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001234	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001235	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001236	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001237	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001238	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001239	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001240	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001241	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001242	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001243	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001244	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001245	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001246	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001247	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001248	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001249	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001250	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001251	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001252	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001253	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001254	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001255	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001256	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001257	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001258	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001259	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001260	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001261	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001262	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001263	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001264	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001265	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001266	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001267	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001268	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001269	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001270	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001271	0.0000001083	3.49	4.00	3.25

SRCPARAM L0001272	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001273	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001274	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001275	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001276	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001277	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001278	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001279	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001280	0.0000001083	3.49	4.00	3.25
SRCPARAM L0001281	0.0000001083	3.49	4.00	3.25

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** LINE VOLUME SOURCE ID = SLINE10

SRCPARAM L0001282	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001283	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001284	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001285	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001286	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001287	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001288	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001289	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001290	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001291	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001292	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001293	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001294	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001295	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001296	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001297	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001298	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001299	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001300	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001301	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001302	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001303	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001304	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001305	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001306	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001307	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001308	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001309	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001310	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001311	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001312	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001313	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001314	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001315	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001316	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001317	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001318	0.0000001336	3.49	4.00	3.25
SRCPARAM L0001319	0.0000001336	3.49	4.00	3.25

SRCPARAM	L0001320	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001321	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001322	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001323	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001324	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001325	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001326	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001327	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001328	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001329	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001330	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001331	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001332	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001333	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001334	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001335	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001336	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001337	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001338	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001339	0.0000001336	3.49	4.00	3.25
SRCPARAM	L0001340	0.0000001336	3.49	4.00	3.25

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** LINE VOLUME SOURCE ID = SLINE11

SRCPARAM	L0001341	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001342	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001343	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001344	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001345	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001346	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001347	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001348	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001349	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001350	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001351	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001352	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001353	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001354	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001355	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001356	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001357	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001358	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001359	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001360	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001361	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001362	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001363	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001364	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001365	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001366	0.0000001073	3.49	4.00	3.25
SRCPARAM	L0001367	0.0000001073	3.49	4.00	3.25

SRCPARAM L0001368	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001369	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001370	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001371	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001372	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001373	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001374	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001375	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001376	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001377	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001378	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001379	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001380	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001381	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001382	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001383	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001384	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001385	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001386	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001387	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001388	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001389	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001390	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001391	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001392	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001393	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001394	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001395	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001396	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001397	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001398	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001399	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001400	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001401	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001402	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001403	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001404	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001405	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001406	0.0000001073	3.49	4.00	3.25
SRCPARAM L0001407	0.0000001073	3.49	4.00	3.25

**

** LINE VOLUME SOURCE ID = SLINE12

SRCPARAM L0001408	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001409	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001410	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001411	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001412	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001413	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001414	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001415	0.00000008087	3.49	4.00	3.25

SRCPARAM L0001466	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001467	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001468	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001469	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001470	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001471	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001472	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001473	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001474	0.00000008087	3.49	4.00	3.25
SRCPARAM L0001475	0.00000008087	3.49	4.00	3.25

**

** LINE VOLUME SOURCE ID = SLINE13

SRCPARAM L0001476	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001477	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001478	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001479	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001480	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001481	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001482	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001483	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001484	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001485	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001486	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001487	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001488	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001489	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001490	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001491	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001492	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001493	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001494	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001495	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001496	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001497	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001498	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001499	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001500	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001501	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001502	0.0000001335	3.49	4.00	3.25
SRCPARAM L0001503	0.0000001335	3.49	4.00	3.25

**

URBANSRC ALL
SRCGROUP ALL

SO FINISHED

**

** AERMOD RECEPTOR PATHWAY

**

**

RE STARTING
INCLUDED "14092 OPS.ROU"
RE FINISHED

**

** AERMOD METEOROLOGY PATHWAY

**

ME STARTING
SURFFILE ..\KHRH_V9_ADJU\KHRH_V9.SFC
PROFFILE ..\KHRH_V9_ADJU\KHRH_V9.PFL
SURFDATA 3167 2012
UAIRDATA 3190 2012
PROFBASE 19.0 METERS

ME FINISHED
**

** AERMOD OUTPUT PATHWAY

**

OU STARTING
** AUTO-GENERATED PLOTFILES
PLOTFILE ANNUAL ALL "14092 OPS.AD\AN00GALL.PLT" 31
SUMMFILE "14092 OPS.SUM"
OU FINISHED

*** Message Summary For AERMOD Model Setup ***

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 0 Informational Message(s)

***** FATAL ERROR MESSAGES *****
*** NONE ***

***** WARNING MESSAGES *****
ME W186 1365 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
 0.50
ME W187 1365 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** SETUP Finishes Successfully ***

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OPS\14092 OPS.ISC *** 11/01/21
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** MODEL SETUP OPTIONS SUMMARY

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 531 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 9818605.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:

ADJ_U* - Use ADJ_U* option for SBL in AERMET
CCVR_Sub - Meteorological data includes CCVR substitutions
TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: DPM

**Model Calculates ANNUAL Averages Only

**This Run Includes: 531 Source(s); 1 Source Group(s); and 3
Receptor(s)

with: 0 POINT(s), including

0 POINTCAP(s) and 0 POINTHOR(s)
and: 531 VOLUME source(s)
and: 0 AREA type source(s)
and: 0 LINE source(s)
and: 0 RLINE/RLINEXT source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

**Model Set To Continue RUNNING After the Setup Testing.

**The AERMET Input Meteorological Data Version Date: 16216

**Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor
Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing
Hours
b for Both Calm
and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 19.00 ; Decay
Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 14092 OPS.ERR

**File for Summary of Results: 14092 OPS.SUM

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.	BY						
(METERS)									
L0000973		0	0.24710E-06	378750.1	3746943.6	19.0	3.49	4.00	
3.25	YES								
L0000974		0	0.24710E-06	378750.2	3746935.0	19.1	3.49	4.00	
3.25	YES								
L0000975		0	0.24710E-06	378750.2	3746926.4	19.2	3.49	4.00	
3.25	YES								
L0000976		0	0.24710E-06	378750.3	3746917.8	19.2	3.49	4.00	
3.25	YES								
L0000977		0	0.24710E-06	378750.4	3746909.2	19.3	3.49	4.00	
3.25	YES								
L0000978		0	0.24710E-06	378750.4	3746900.6	19.4	3.49	4.00	
3.25	YES								
L0000979		0	0.24710E-06	378750.5	3746892.0	19.5	3.49	4.00	
3.25	YES								
L0000980		0	0.24710E-06	378750.6	3746883.4	19.6	3.49	4.00	
3.25	YES								
L0000981		0	0.24710E-06	378750.6	3746874.8	19.6	3.49	4.00	
3.25	YES								
L0000982		0	0.24710E-06	378750.7	3746866.3	19.7	3.49	4.00	
3.25	YES								
L0000983		0	0.24710E-06	378750.7	3746857.7	19.8	3.49	4.00	
3.25	YES								
L0000984		0	0.24710E-06	378750.8	3746849.1	19.8	3.49	4.00	
3.25	YES								
L0000985		0	0.24710E-06	378750.9	3746840.5	19.9	3.49	4.00	
3.25	YES								
L0000986		0	0.24710E-06	378750.9	3746831.9	19.9	3.49	4.00	
3.25	YES								
L0000987		0	0.24600E-06	378458.6	3746946.9	20.6	3.49	4.00	
3.25	YES								
L0000988		0	0.24600E-06	378458.5	3746938.3	20.7	3.49	4.00	
3.25	YES								
L0000989		0	0.24600E-06	378458.5	3746929.7	20.7	3.49	4.00	
3.25	YES								
L0000990		0	0.24600E-06	378458.4	3746921.1	20.7	3.49	4.00	
3.25	YES								
L0000991		0	0.24600E-06	378458.3	3746912.5	20.8	3.49	4.00	

3.25	YES							
L0000992		0	0.24600E-06	378458.3	3746903.9	20.8	3.49	4.00
3.25	YES							
L0000993		0	0.24600E-06	378458.2	3746895.4	20.8	3.49	4.00
3.25	YES							
L0000994		0	0.24600E-06	378458.1	3746886.8	20.9	3.49	4.00
3.25	YES							
L0000995		0	0.24600E-06	378458.1	3746878.2	20.9	3.49	4.00
3.25	YES							
L0000996		0	0.24600E-06	378458.0	3746869.6	20.9	3.49	4.00
3.25	YES							
L0000997		0	0.24600E-06	378457.9	3746861.0	21.0	3.49	4.00
3.25	YES							
L0000998		0	0.24600E-06	378457.9	3746852.4	21.0	3.49	4.00
3.25	YES							
L0000999		0	0.24600E-06	378457.8	3746843.8	21.0	3.49	4.00
3.25	YES							
L0001000		0	0.24600E-06	378457.7	3746835.2	21.0	3.49	4.00
3.25	YES							
L0001001		0	0.24600E-06	378457.7	3746826.6	21.0	3.49	4.00
3.25	YES							
L0001002		0	0.44200E-06	378517.8	3747141.5	19.0	3.49	4.00
3.25	YES							
L0001003		0	0.44200E-06	378517.8	3747132.9	19.0	3.49	4.00
3.25	YES							
L0001004		0	0.44200E-06	378517.8	3747124.3	19.1	3.49	4.00
3.25	YES							
L0001005		0	0.44200E-06	378517.8	3747115.7	19.2	3.49	4.00
3.25	YES							
L0001006		0	0.44200E-06	378517.8	3747107.1	19.2	3.49	4.00
3.25	YES							
L0001007		0	0.44200E-06	378517.8	3747098.6	19.3	3.49	4.00
3.25	YES							
L0001008		0	0.44200E-06	378517.8	3747090.0	19.4	3.49	4.00
3.25	YES							
L0001009		0	0.44200E-06	378517.8	3747081.4	19.5	3.49	4.00
3.25	YES							
L0001010		0	0.44200E-06	378517.8	3747072.8	19.6	3.49	4.00
3.25	YES							
L0001011		0	0.44840E-06	378586.0	3747140.1	18.9	3.49	4.00
3.25	YES							
L0001012		0	0.44840E-06	378586.0	3747131.5	19.0	3.49	4.00

3.25 YES
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.	BY						
(METERS)									
L0001013		0	0.44840E-06	378586.0	3747122.9	19.0	3.49	4.00	
3.25	YES								
L0001014		0	0.44840E-06	378586.0	3747114.3	19.0	3.49	4.00	
3.25	YES								
L0001015		0	0.44840E-06	378586.0	3747105.7	19.0	3.49	4.00	
3.25	YES								
L0001016		0	0.44840E-06	378586.0	3747097.1	19.0	3.49	4.00	
3.25	YES								
L0001017		0	0.44840E-06	378586.0	3747088.5	19.0	3.49	4.00	
3.25	YES								
L0001018		0	0.44840E-06	378586.0	3747079.9	19.0	3.49	4.00	
3.25	YES								
L0001019		0	0.44840E-06	378586.0	3747071.4	19.0	3.49	4.00	
3.25	YES								
L0001020		0	0.27380E-06	378737.2	3747142.0	18.1	3.49	4.00	
3.25	YES								
L0001021		0	0.27380E-06	378737.3	3747133.4	18.1	3.49	4.00	
3.25	YES								
L0001022		0	0.27380E-06	378737.4	3747124.8	18.1	3.49	4.00	
3.25	YES								
L0001023		0	0.27380E-06	378737.5	3747116.2	18.2	3.49	4.00	
3.25	YES								
L0001024		0	0.27380E-06	378737.5	3747107.6	18.3	3.49	4.00	
3.25	YES								
L0001025		0	0.27380E-06	378737.6	3747099.0	18.4	3.49	4.00	
3.25	YES								
L0001026		0	0.27380E-06	378737.7	3747090.4	18.4	3.49	4.00	
3.25	YES								
L0001027		0	0.27380E-06	378737.8	3747081.9	18.5	3.49	4.00	
3.25	YES								
L0001028		0	0.27380E-06	378737.8	3747073.3	18.6	3.49	4.00	
3.25	YES								
L0001029		0	0.27380E-06	378737.9	3747064.7	18.7	3.49	4.00	
3.25	YES								
L0001030		0	0.27380E-06	378738.0	3747056.1	18.8	3.49	4.00	
3.25	YES								
L0001031		0	0.27380E-06	378738.1	3747047.5	18.9	3.49	4.00	

3.25	YES							
L0001032		0	0.26000E-06	378372.6	3747009.9	20.8	3.49	4.00
3.25	YES							
L0001033		0	0.26000E-06	378381.2	3747009.8	20.8	3.49	4.00
3.25	YES							
L0001034		0	0.26000E-06	378389.8	3747009.7	20.7	3.49	4.00
3.25	YES							
L0001035		0	0.26000E-06	378398.4	3747009.6	20.6	3.49	4.00
3.25	YES							
L0001036		0	0.26000E-06	378407.0	3747009.5	20.6	3.49	4.00
3.25	YES							
L0001037		0	0.26000E-06	378415.6	3747009.4	20.5	3.49	4.00
3.25	YES							
L0001038		0	0.26000E-06	378424.2	3747009.4	20.4	3.49	4.00
3.25	YES							
L0001039		0	0.26000E-06	378432.8	3747009.3	20.3	3.49	4.00
3.25	YES							
L0001040		0	0.26000E-06	378441.3	3747009.2	20.3	3.49	4.00
3.25	YES							
L0001041		0	0.26000E-06	378449.9	3747009.1	20.3	3.49	4.00
3.25	YES							
L0001042		0	0.26000E-06	378458.5	3747009.0	20.2	3.49	4.00
3.25	YES							
L0001043		0	0.26000E-06	378467.1	3747008.9	20.2	3.49	4.00
3.25	YES							
L0001044		0	0.26000E-06	378475.7	3747008.8	20.1	3.49	4.00
3.25	YES							
L0001045		0	0.26000E-06	378484.3	3747008.7	20.1	3.49	4.00
3.25	YES							
L0001046		0	0.26000E-06	378492.9	3747008.6	20.1	3.49	4.00
3.25	YES							
L0001047		0	0.26000E-06	378501.5	3747008.5	20.0	3.49	4.00
3.25	YES							
L0001048		0	0.26000E-06	378510.1	3747008.4	20.0	3.49	4.00
3.25	YES							
L0001049		0	0.26000E-06	378518.7	3747008.3	19.9	3.49	4.00
3.25	YES							
L0001050		0	0.26000E-06	378527.2	3747008.2	19.8	3.49	4.00
3.25	YES							
L0001051		0	0.26000E-06	378535.8	3747008.1	19.8	3.49	4.00
3.25	YES							
L0001052		0	0.26000E-06	378544.4	3747008.0	19.7	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0001053	0	0.26000E-06	378553.0	3747007.9	19.6	3.49	4.00	
3.25	YES							
L0001054	0	0.26000E-06	378561.6	3747007.8	19.5	3.49	4.00	
3.25	YES							
L0001055	0	0.26000E-06	378570.2	3747007.7	19.5	3.49	4.00	
3.25	YES							
L0001056	0	0.26000E-06	378578.8	3747007.6	19.4	3.49	4.00	
3.25	YES							
L0001057	0	0.26000E-06	378587.4	3747007.5	19.3	3.49	4.00	
3.25	YES							
L0001058	0	0.26000E-06	378596.0	3747007.4	19.3	3.49	4.00	
3.25	YES							
L0001059	0	0.26000E-06	378604.5	3747007.3	19.2	3.49	4.00	
3.25	YES							
L0001060	0	0.26000E-06	378613.1	3747007.2	19.2	3.49	4.00	
3.25	YES							
L0001061	0	0.26000E-06	378621.7	3747007.1	19.2	3.49	4.00	
3.25	YES							
L0001062	0	0.26000E-06	378630.3	3747007.0	19.1	3.49	4.00	
3.25	YES							
L0001063	0	0.26000E-06	378638.9	3747006.9	19.1	3.49	4.00	
3.25	YES							
L0001064	0	0.26000E-06	378647.5	3747006.8	19.1	3.49	4.00	
3.25	YES							
L0001065	0	0.26000E-06	378656.1	3747006.7	19.0	3.49	4.00	
3.25	YES							
L0001066	0	0.26000E-06	378664.7	3747006.6	19.0	3.49	4.00	
3.25	YES							
L0001067	0	0.26000E-06	378673.3	3747006.5	19.0	3.49	4.00	
3.25	YES							
L0001068	0	0.26000E-06	378681.8	3747006.4	19.0	3.49	4.00	
3.25	YES							
L0001069	0	0.26000E-06	378690.4	3747006.3	19.0	3.49	4.00	
3.25	YES							
L0001070	0	0.26000E-06	378699.0	3747006.2	19.0	3.49	4.00	
3.25	YES							
L0001071	0	0.26000E-06	378707.6	3747006.1	19.0	3.49	4.00	

3.25	YES							
L0001072		0	0.26000E-06	378716.2	3747006.0	19.0	3.49	4.00
3.25	YES							
L0001073		0	0.26000E-06	378724.8	3747006.0	19.0	3.49	4.00
3.25	YES							
L0001074		0	0.26000E-06	378733.4	3747005.9	19.0	3.49	4.00
3.25	YES							
L0001075		0	0.26000E-06	378742.0	3747005.8	19.0	3.49	4.00
3.25	YES							
L0001076		0	0.26000E-06	378750.6	3747005.7	18.9	3.49	4.00
3.25	YES							
L0001077		0	0.26000E-06	378759.2	3747005.6	18.8	3.49	4.00
3.25	YES							
L0001078		0	0.26000E-06	378767.7	3747005.5	18.8	3.49	4.00
3.25	YES							
L0001079		0	0.26000E-06	378776.3	3747005.4	18.7	3.49	4.00
3.25	YES							
L0001080		0	0.26000E-06	378784.9	3747005.3	18.6	3.49	4.00
3.25	YES							
L0001081		0	0.26000E-06	378793.5	3747005.2	18.5	3.49	4.00
3.25	YES							
L0001082		0	0.26000E-06	378802.1	3747005.1	18.5	3.49	4.00
3.25	YES							
L0001083		0	0.26000E-06	378810.7	3747005.0	18.4	3.49	4.00
3.25	YES							
L0001084		0	0.26000E-06	378819.3	3747004.9	18.3	3.49	4.00
3.25	YES							
L0001085		0	0.26000E-06	378827.9	3747004.8	18.3	3.49	4.00
3.25	YES							
L0001086		0	0.26000E-06	378836.5	3747004.7	18.2	3.49	4.00
3.25	YES							
L0001087		0	0.26000E-06	378845.0	3747004.6	18.2	3.49	4.00
3.25	YES							
L0001088		0	0.10850E-06	378350.9	3747011.8	21.0	3.49	4.00
3.25	YES							
L0001089		0	0.10850E-06	378353.4	3747020.0	21.0	3.49	4.00
3.25	YES							
L0001090		0	0.10850E-06	378355.9	3747028.2	21.0	3.49	4.00
3.25	YES							
L0001091		0	0.10850E-06	378358.3	3747036.5	21.0	3.49	4.00
3.25	YES							
L0001092		0	0.10850E-06	378360.8	3747044.7	20.9	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0001093	0	0.10850E-06	378364.3	3747052.5	20.8	3.49	4.00	
3.25	YES							
L0001094	0	0.10850E-06	378368.1	3747060.2	20.7	3.49	4.00	
3.25	YES							
L0001095	0	0.10850E-06	378371.9	3747067.9	20.6	3.49	4.00	
3.25	YES							
L0001096	0	0.10850E-06	378375.7	3747075.6	20.5	3.49	4.00	
3.25	YES							
L0001097	0	0.10850E-06	378379.5	3747083.3	20.4	3.49	4.00	
3.25	YES							
L0001098	0	0.10850E-06	378383.3	3747091.0	20.3	3.49	4.00	
3.25	YES							
L0001099	0	0.10850E-06	378387.1	3747098.7	20.2	3.49	4.00	
3.25	YES							
L0001100	0	0.10850E-06	378390.1	3747106.8	20.2	3.49	4.00	
3.25	YES							
L0001101	0	0.10850E-06	378392.9	3747114.9	20.1	3.49	4.00	
3.25	YES							
L0001102	0	0.10850E-06	378395.7	3747123.0	20.1	3.49	4.00	
3.25	YES							
L0001103	0	0.10850E-06	378398.5	3747131.1	20.0	3.49	4.00	
3.25	YES							
L0001104	0	0.10850E-06	378401.3	3747139.3	20.0	3.49	4.00	
3.25	YES							
L0001105	0	0.10850E-06	378404.1	3747147.4	19.9	3.49	4.00	
3.25	YES							
L0001106	0	0.10850E-06	378406.9	3747155.5	19.8	3.49	4.00	
3.25	YES							
L0001107	0	0.10850E-06	378409.7	3747163.6	19.8	3.49	4.00	
3.25	YES							
L0001108	0	0.10850E-06	378411.1	3747172.0	19.7	3.49	4.00	
3.25	YES							
L0001109	0	0.10850E-06	378411.2	3747180.6	19.6	3.49	4.00	
3.25	YES							
L0001110	0	0.10850E-06	378411.3	3747189.2	19.6	3.49	4.00	
3.25	YES							
L0001111	0	0.10850E-06	378411.4	3747197.7	19.5	3.49	4.00	

3.25	YES							
L0001112		0	0.10850E-06	378411.6	3747206.3	19.4	3.49	4.00
3.25	YES							
L0001113		0	0.10850E-06	378411.7	3747214.9	19.4	3.49	4.00
3.25	YES							
L0001114		0	0.10850E-06	378411.8	3747223.5	19.3	3.49	4.00
3.25	YES							
L0001115		0	0.10850E-06	378407.2	3747227.5	19.4	3.49	4.00
3.25	YES							
L0001116		0	0.10850E-06	378398.6	3747227.5	19.5	3.49	4.00
3.25	YES							
L0001117		0	0.10850E-06	378390.0	3747227.6	19.6	3.49	4.00
3.25	YES							
L0001118		0	0.10850E-06	378381.4	3747227.6	19.7	3.49	4.00
3.25	YES							
L0001119		0	0.10850E-06	378372.8	3747227.7	19.8	3.49	4.00
3.25	YES							
L0001120		0	0.10850E-06	378364.2	3747227.7	19.9	3.49	4.00
3.25	YES							
L0001121		0	0.10850E-06	378355.6	3747227.7	20.0	3.49	4.00
3.25	YES							
L0001122		0	0.10850E-06	378347.1	3747227.8	20.0	3.49	4.00
3.25	YES							
L0001123		0	0.10850E-06	378338.5	3747227.8	20.0	3.49	4.00
3.25	YES							
L0001124		0	0.10850E-06	378329.9	3747227.9	20.0	3.49	4.00
3.25	YES							
L0001125		0	0.10850E-06	378321.3	3747227.9	20.0	3.49	4.00
3.25	YES							
L0001126		0	0.10850E-06	378312.7	3747228.0	20.0	3.49	4.00
3.25	YES							
L0001127		0	0.10850E-06	378304.1	3747228.0	20.0	3.49	4.00
3.25	YES							
L0001128		0	0.10850E-06	378295.5	3747228.0	20.0	3.49	4.00
3.25	YES							
L0001129		0	0.10850E-06	378286.9	3747228.1	20.0	3.49	4.00
3.25	YES							
L0001130		0	0.10850E-06	378278.3	3747228.1	20.0	3.49	4.00
3.25	YES							
L0001131		0	0.10850E-06	378269.7	3747228.2	20.0	3.49	4.00
3.25	YES							
L0001132		0	0.10850E-06	378261.2	3747228.2	20.0	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0001133	0	0.10850E-06	378252.6	3747228.3	20.0	3.49	4.00	
3.25	YES							
L0001134	0	0.10850E-06	378244.0	3747228.3	20.0	3.49	4.00	
3.25	YES							
L0001135	0	0.10850E-06	378235.4	3747228.3	20.0	3.49	4.00	
3.25	YES							
L0001136	0	0.10850E-06	378226.8	3747228.4	20.0	3.49	4.00	
3.25	YES							
L0001137	0	0.10850E-06	378218.2	3747228.4	20.0	3.49	4.00	
3.25	YES							
L0001138	0	0.10850E-06	378209.6	3747228.5	20.0	3.49	4.00	
3.25	YES							
L0001139	0	0.10850E-06	378201.0	3747228.5	20.0	3.49	4.00	
3.25	YES							
L0001140	0	0.10850E-06	378192.4	3747228.6	20.1	3.49	4.00	
3.25	YES							
L0001141	0	0.10850E-06	378183.8	3747228.6	20.2	3.49	4.00	
3.25	YES							
L0001142	0	0.10850E-06	378175.3	3747228.6	20.4	3.49	4.00	
3.25	YES							
L0001143	0	0.10850E-06	378166.7	3747228.7	20.5	3.49	4.00	
3.25	YES							
L0001144	0	0.10850E-06	378158.1	3747228.7	20.6	3.49	4.00	
3.25	YES							
L0001145	0	0.10850E-06	378149.5	3747228.8	20.7	3.49	4.00	
3.25	YES							
L0001146	0	0.10850E-06	378140.9	3747228.8	20.8	3.49	4.00	
3.25	YES							
L0001147	0	0.10850E-06	378132.3	3747228.9	20.9	3.49	4.00	
3.25	YES							
L0001148	0	0.10850E-06	378123.7	3747228.9	21.0	3.49	4.00	
3.25	YES							
L0001149	0	0.10850E-06	378115.1	3747228.9	21.0	3.49	4.00	
3.25	YES							
L0001150	0	0.10850E-06	378106.5	3747229.0	21.0	3.49	4.00	
3.25	YES							
L0001151	0	0.10850E-06	378098.0	3747229.8	21.0	3.49	4.00	

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER EMISSION RATE	EMISSION RATE		BASE	RELEASE	INIT.	
SOURCE	SOURCE	EMISSION RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SCALAR	VARY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID	BY							
(METERS)								
L0001173	0	0.10850E-06	378100.4	3747418.8	20.0	3.49	4.00	
3.25 YES								
L0001174	0	0.10850E-06	378100.5	3747427.4	19.9	3.49	4.00	
3.25 YES								
L0001175	0	0.10850E-06	378100.6	3747436.0	19.9	3.49	4.00	
3.25 YES								
L0001176	0	0.10850E-06	378100.7	3747444.5	19.8	3.49	4.00	
3.25 YES								
L0001177	0	0.10850E-06	378100.8	3747453.1	19.7	3.49	4.00	
3.25 YES								
L0001178	0	0.10850E-06	378100.9	3747461.7	19.7	3.49	4.00	
3.25 YES								
L0001179	0	0.10850E-06	378101.0	3747470.3	19.6	3.49	4.00	
3.25 YES								
L0001180	0	0.10850E-06	378101.2	3747478.9	19.6	3.49	4.00	
3.25 YES								
L0001181	0	0.10850E-06	378101.3	3747487.5	19.5	3.49	4.00	
3.25 YES								
L0001182	0	0.10850E-06	378101.4	3747496.1	19.4	3.49	4.00	
3.25 YES								
L0001183	0	0.10850E-06	378101.5	3747504.7	19.4	3.49	4.00	
3.25 YES								
L0001184	0	0.10850E-06	378101.6	3747513.3	19.3	3.49	4.00	
3.25 YES								
L0001185	0	0.10850E-06	378101.7	3747521.8	19.3	3.49	4.00	
3.25 YES								
L0001186	0	0.10850E-06	378101.8	3747530.4	19.3	3.49	4.00	
3.25 YES								
L0001187	0	0.10850E-06	378101.9	3747539.0	19.2	3.49	4.00	
3.25 YES								
L0001188	0	0.80600E-07	378476.0	3746748.2	21.0	3.49	4.00	
3.25 YES								
L0001189	0	0.80600E-07	378467.5	3746749.7	21.0	3.49	4.00	
3.25 YES								
L0001190	0	0.80600E-07	378459.0	3746751.2	21.0	3.49	4.00	
3.25 YES								
L0001191	0	0.80600E-07	378450.6	3746752.6	21.0	3.49	4.00	

3.25	YES							
L0001192		0	0.80600E-07	378442.1	3746754.1	21.0	3.49	4.00
3.25	YES							
L0001193		0	0.80600E-07	378433.6	3746755.6	21.0	3.49	4.00
3.25	YES							
L0001194		0	0.80600E-07	378425.2	3746757.1	21.0	3.49	4.00
3.25	YES							
L0001195		0	0.80600E-07	378416.7	3746758.5	21.0	3.49	4.00
3.25	YES							
L0001196		0	0.80600E-07	378408.3	3746760.0	21.0	3.49	4.00
3.25	YES							
L0001197		0	0.80600E-07	378399.8	3746761.5	21.0	3.49	4.00
3.25	YES							
L0001198		0	0.80600E-07	378391.3	3746763.0	21.0	3.49	4.00
3.25	YES							
L0001199		0	0.80600E-07	378382.9	3746764.4	21.0	3.49	4.00
3.25	YES							
L0001200		0	0.80600E-07	378374.3	3746764.5	21.0	3.49	4.00
3.25	YES							
L0001201		0	0.80600E-07	378365.7	3746764.5	21.0	3.49	4.00
3.25	YES							
L0001202		0	0.80600E-07	378357.1	3746764.5	21.0	3.49	4.00
3.25	YES							
L0001203		0	0.80600E-07	378348.5	3746764.5	21.0	3.49	4.00
3.25	YES							
L0001204		0	0.80600E-07	378339.9	3746764.5	21.0	3.49	4.00
3.25	YES							
L0001205		0	0.80600E-07	378331.3	3746764.5	21.0	3.49	4.00
3.25	YES							
L0001206		0	0.80600E-07	378322.7	3746764.5	21.0	3.49	4.00
3.25	YES							
L0001207		0	0.80600E-07	378314.2	3746764.6	21.0	3.49	4.00
3.25	YES							
L0001208		0	0.80600E-07	378305.6	3746764.6	21.0	3.49	4.00
3.25	YES							
L0001209		0	0.80600E-07	378297.0	3746764.7	21.0	3.49	4.00
3.25	YES							
L0001210		0	0.80600E-07	378288.4	3746764.8	21.0	3.49	4.00
3.25	YES							
L0001211		0	0.80600E-07	378279.8	3746764.8	21.0	3.49	4.00
3.25	YES							
L0001212		0	0.80600E-07	378271.2	3746764.9	21.0	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:05:46

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.	BY						
(METERS)									
L0001213		0	0.80600E-07	378262.6	3746764.9	21.0	3.49	4.00	
3.25	YES								
L0001214		0	0.80600E-07	378254.0	3746765.0	21.0	3.49	4.00	
3.25	YES								
L0001215		0	0.80600E-07	378245.4	3746765.1	21.0	3.49	4.00	
3.25	YES								
L0001216		0	0.80600E-07	378236.8	3746765.1	21.0	3.49	4.00	
3.25	YES								
L0001217		0	0.80600E-07	378228.3	3746765.2	21.0	3.49	4.00	
3.25	YES								
L0001218		0	0.80600E-07	378219.7	3746765.2	21.0	3.49	4.00	
3.25	YES								
L0001219		0	0.80600E-07	378211.1	3746765.3	21.0	3.49	4.00	
3.25	YES								
L0001220		0	0.80600E-07	378202.5	3746765.3	21.0	3.49	4.00	
3.25	YES								
L0001221		0	0.80600E-07	378193.9	3746765.4	21.0	3.49	4.00	
3.25	YES								
L0001222		0	0.80600E-07	378185.3	3746765.5	21.0	3.49	4.00	
3.25	YES								
L0001223		0	0.80600E-07	378176.7	3746765.5	21.0	3.49	4.00	
3.25	YES								
L0001224		0	0.80600E-07	378168.1	3746765.6	21.0	3.49	4.00	
3.25	YES								
L0001225		0	0.80600E-07	378159.5	3746765.6	21.0	3.49	4.00	
3.25	YES								
L0001226		0	0.80600E-07	378151.0	3746765.7	21.0	3.49	4.00	
3.25	YES								
L0001227		0	0.80600E-07	378142.4	3746765.8	21.0	3.49	4.00	
3.25	YES								
L0001228		0	0.80600E-07	378133.8	3746765.8	21.0	3.49	4.00	
3.25	YES								
L0001229		0	0.80600E-07	378125.2	3746765.9	21.0	3.49	4.00	
3.25	YES								
L0001230		0	0.80600E-07	378116.6	3746765.9	21.0	3.49	4.00	
3.25	YES								
L0001231		0	0.80600E-07	378108.0	3746766.0	21.0	3.49	4.00	

3.25	YES							
L0001232		0	0.80600E-07	378099.4	3746766.0	21.0	3.49	4.00
3.25	YES							
L0001233		0	0.10830E-06	378420.0	3747229.0	19.2	3.49	4.00
3.25	YES							
L0001234		0	0.10830E-06	378428.6	3747228.9	19.1	3.49	4.00
3.25	YES							
L0001235		0	0.10830E-06	378437.2	3747228.8	19.0	3.49	4.00
3.25	YES							
L0001236		0	0.10830E-06	378445.8	3747228.7	19.0	3.49	4.00
3.25	YES							
L0001237		0	0.10830E-06	378454.4	3747228.6	19.0	3.49	4.00
3.25	YES							
L0001238		0	0.10830E-06	378463.0	3747228.5	19.0	3.49	4.00
3.25	YES							
L0001239		0	0.10830E-06	378471.5	3747228.4	19.0	3.49	4.00
3.25	YES							
L0001240		0	0.10830E-06	378480.1	3747228.3	19.0	3.49	4.00
3.25	YES							
L0001241		0	0.10830E-06	378488.7	3747228.2	19.0	3.49	4.00
3.25	YES							
L0001242		0	0.10830E-06	378497.3	3747228.1	19.0	3.49	4.00
3.25	YES							
L0001243		0	0.10830E-06	378505.9	3747228.0	19.0	3.49	4.00
3.25	YES							
L0001244		0	0.10830E-06	378514.5	3747227.9	18.9	3.49	4.00
3.25	YES							
L0001245		0	0.10830E-06	378523.1	3747227.8	18.8	3.49	4.00
3.25	YES							
L0001246		0	0.10830E-06	378531.7	3747227.7	18.7	3.49	4.00
3.25	YES							
L0001247		0	0.10830E-06	378540.3	3747227.6	18.6	3.49	4.00
3.25	YES							
L0001248		0	0.10830E-06	378548.8	3747227.5	18.5	3.49	4.00
3.25	YES							
L0001249		0	0.10830E-06	378557.4	3747227.4	18.4	3.49	4.00
3.25	YES							
L0001250		0	0.10830E-06	378566.0	3747227.3	18.3	3.49	4.00
3.25	YES							
L0001251		0	0.10830E-06	378574.6	3747227.2	18.2	3.49	4.00
3.25	YES							
L0001252		0	0.10830E-06	378583.2	3747227.1	18.1	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.	BY						
(METERS)									
L0001253		0	0.10830E-06	378591.8	3747227.0	18.0	3.49	4.00	
3.25	YES								
L0001254		0	0.10830E-06	378600.4	3747226.9	18.0	3.49	4.00	
3.25	YES								
L0001255		0	0.10830E-06	378609.0	3747226.8	18.0	3.49	4.00	
3.25	YES								
L0001256		0	0.10830E-06	378617.6	3747226.7	18.0	3.49	4.00	
3.25	YES								
L0001257		0	0.10830E-06	378626.2	3747226.6	18.0	3.49	4.00	
3.25	YES								
L0001258		0	0.10830E-06	378634.7	3747226.5	18.0	3.49	4.00	
3.25	YES								
L0001259		0	0.10830E-06	378643.3	3747226.4	18.0	3.49	4.00	
3.25	YES								
L0001260		0	0.10830E-06	378651.9	3747226.3	18.0	3.49	4.00	
3.25	YES								
L0001261		0	0.10830E-06	378660.5	3747226.2	18.0	3.49	4.00	
3.25	YES								
L0001262		0	0.10830E-06	378669.1	3747226.1	18.0	3.49	4.00	
3.25	YES								
L0001263		0	0.10830E-06	378677.7	3747226.0	18.0	3.49	4.00	
3.25	YES								
L0001264		0	0.10830E-06	378685.2	3747227.0	18.0	3.49	4.00	
3.25	YES								
L0001265		0	0.10830E-06	378685.2	3747235.5	18.0	3.49	4.00	
3.25	YES								
L0001266		0	0.10830E-06	378685.2	3747244.1	17.9	3.49	4.00	
3.25	YES								
L0001267		0	0.10830E-06	378685.2	3747252.7	17.9	3.49	4.00	
3.25	YES								
L0001268		0	0.10830E-06	378685.2	3747261.3	17.9	3.49	4.00	
3.25	YES								
L0001269		0	0.10830E-06	378685.2	3747269.9	17.9	3.49	4.00	
3.25	YES								
L0001270		0	0.10830E-06	378685.2	3747278.5	17.9	3.49	4.00	
3.25	YES								
L0001271		0	0.10830E-06	378685.2	3747287.1	17.8	3.49	4.00	

3.25	YES							
L0001272		0	0.10830E-06	378685.2	3747295.7	17.8	3.49	4.00
3.25	YES							
L0001273		0	0.10830E-06	378685.2	3747304.3	17.8	3.49	4.00
3.25	YES							
L0001274		0	0.10830E-06	378685.2	3747312.9	17.8	3.49	4.00
3.25	YES							
L0001275		0	0.10830E-06	378685.2	3747321.4	17.7	3.49	4.00
3.25	YES							
L0001276		0	0.10830E-06	378685.2	3747330.0	17.6	3.49	4.00
3.25	YES							
L0001277		0	0.10830E-06	378685.2	3747338.6	17.6	3.49	4.00
3.25	YES							
L0001278		0	0.10830E-06	378685.2	3747347.2	17.5	3.49	4.00
3.25	YES							
L0001279		0	0.10830E-06	378685.2	3747355.8	17.4	3.49	4.00
3.25	YES							
L0001280		0	0.10830E-06	378685.2	3747364.4	17.4	3.49	4.00
3.25	YES							
L0001281		0	0.10830E-06	378685.2	3747373.0	17.3	3.49	4.00
3.25	YES							
L0001282		0	0.13360E-06	378870.9	3747005.7	18.1	3.49	4.00
3.25	YES							
L0001283		0	0.13360E-06	378870.9	3747014.3	18.1	3.49	4.00
3.25	YES							
L0001284		0	0.13360E-06	378870.9	3747022.9	18.0	3.49	4.00
3.25	YES							
L0001285		0	0.13360E-06	378870.9	3747031.5	18.0	3.49	4.00
3.25	YES							
L0001286		0	0.13360E-06	378870.9	3747040.1	18.0	3.49	4.00
3.25	YES							
L0001287		0	0.13360E-06	378870.9	3747048.7	18.0	3.49	4.00
3.25	YES							
L0001288		0	0.13360E-06	378870.9	3747057.3	18.0	3.49	4.00
3.25	YES							
L0001289		0	0.13360E-06	378870.9	3747065.9	18.0	3.49	4.00
3.25	YES							
L0001290		0	0.13360E-06	378870.9	3747074.5	18.0	3.49	4.00
3.25	YES							
L0001291		0	0.13360E-06	378870.9	3747083.0	18.0	3.49	4.00
3.25	YES							
L0001292		0	0.13360E-06	378870.9	3747091.6	18.0	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.	BY						
(METERS)									
L0001293		0	0.13360E-06	378870.9	3747100.2	18.0	3.49	4.00	
3.25	YES								
L0001294		0	0.13360E-06	378870.9	3747108.8	18.0	3.49	4.00	
3.25	YES								
L0001295		0	0.13360E-06	378871.6	3747117.4	18.0	3.49	4.00	
3.25	YES								
L0001296		0	0.13360E-06	378872.5	3747125.9	18.0	3.49	4.00	
3.25	YES								
L0001297		0	0.13360E-06	378873.5	3747134.4	17.9	3.49	4.00	
3.25	YES								
L0001298		0	0.13360E-06	378874.4	3747143.0	17.8	3.49	4.00	
3.25	YES								
L0001299		0	0.13360E-06	378875.3	3747151.5	17.7	3.49	4.00	
3.25	YES								
L0001300		0	0.13360E-06	378876.2	3747160.1	17.6	3.49	4.00	
3.25	YES								
L0001301		0	0.13360E-06	378877.1	3747168.6	17.6	3.49	4.00	
3.25	YES								
L0001302		0	0.13360E-06	378878.2	3747177.1	17.5	3.49	4.00	
3.25	YES								
L0001303		0	0.13360E-06	378880.0	3747185.5	17.4	3.49	4.00	
3.25	YES								
L0001304		0	0.13360E-06	378881.7	3747193.9	17.3	3.49	4.00	
3.25	YES								
L0001305		0	0.13360E-06	378883.5	3747202.3	17.2	3.49	4.00	
3.25	YES								
L0001306		0	0.13360E-06	378885.3	3747210.8	17.1	3.49	4.00	
3.25	YES								
L0001307		0	0.13360E-06	378887.0	3747219.2	17.0	3.49	4.00	
3.25	YES								
L0001308		0	0.13360E-06	378888.8	3747227.6	17.0	3.49	4.00	
3.25	YES								
L0001309		0	0.13360E-06	378890.6	3747236.0	17.0	3.49	4.00	
3.25	YES								
L0001310		0	0.13360E-06	378892.3	3747244.4	17.0	3.49	4.00	
3.25	YES								
L0001311		0	0.13360E-06	378894.1	3747252.8	17.0	3.49	4.00	

3.25	YES							
L0001312		0	0.13360E-06	378894.9	3747261.3	17.0	3.49	4.00
3.25	YES							
L0001313		0	0.13360E-06	378895.3	3747269.9	17.0	3.49	4.00
3.25	YES							
L0001314		0	0.13360E-06	378895.7	3747278.5	17.0	3.49	4.00
3.25	YES							
L0001315		0	0.13360E-06	378896.0	3747287.1	17.0	3.49	4.00
3.25	YES							
L0001316		0	0.13360E-06	378896.4	3747295.6	17.0	3.49	4.00
3.25	YES							
L0001317		0	0.13360E-06	378896.8	3747304.2	17.0	3.49	4.00
3.25	YES							
L0001318		0	0.13360E-06	378897.2	3747312.8	17.0	3.49	4.00
3.25	YES							
L0001319		0	0.13360E-06	378897.5	3747321.4	17.0	3.49	4.00
3.25	YES							
L0001320		0	0.13360E-06	378897.9	3747330.0	17.0	3.49	4.00
3.25	YES							
L0001321		0	0.13360E-06	378898.3	3747338.5	17.0	3.49	4.00
3.25	YES							
L0001322		0	0.13360E-06	378898.7	3747347.1	17.0	3.49	4.00
3.25	YES							
L0001323		0	0.13360E-06	378898.9	3747355.7	17.0	3.49	4.00
3.25	YES							
L0001324		0	0.13360E-06	378899.1	3747364.3	17.0	3.49	4.00
3.25	YES							
L0001325		0	0.13360E-06	378899.2	3747372.9	17.0	3.49	4.00
3.25	YES							
L0001326		0	0.13360E-06	378899.4	3747381.5	17.0	3.49	4.00
3.25	YES							
L0001327		0	0.13360E-06	378899.6	3747390.1	17.0	3.49	4.00
3.25	YES							
L0001328		0	0.13360E-06	378899.7	3747398.7	17.0	3.49	4.00
3.25	YES							
L0001329		0	0.13360E-06	378899.9	3747407.2	17.0	3.49	4.00
3.25	YES							
L0001330		0	0.13360E-06	378900.1	3747415.8	17.0	3.49	4.00
3.25	YES							
L0001331		0	0.13360E-06	378900.2	3747424.4	17.0	3.49	4.00
3.25	YES							
L0001332		0	0.13360E-06	378900.4	3747433.0	17.0	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.	BY						
(METERS)									
L0001333		0	0.13360E-06	378900.6	3747441.6	17.0	3.49	4.00	
3.25	YES								
L0001334		0	0.13360E-06	378900.7	3747450.2	17.0	3.49	4.00	
3.25	YES								
L0001335		0	0.13360E-06	378900.9	3747458.8	17.0	3.49	4.00	
3.25	YES								
L0001336		0	0.13360E-06	378901.1	3747467.4	17.0	3.49	4.00	
3.25	YES								
L0001337		0	0.13360E-06	378901.3	3747476.0	17.0	3.49	4.00	
3.25	YES								
L0001338		0	0.13360E-06	378901.4	3747484.5	17.0	3.49	4.00	
3.25	YES								
L0001339		0	0.13360E-06	378901.6	3747493.1	17.0	3.49	4.00	
3.25	YES								
L0001340		0	0.13360E-06	378901.8	3747501.7	17.0	3.49	4.00	
3.25	YES								
L0001341		0	0.10730E-06	378870.9	3747005.7	18.1	3.49	4.00	
3.25	YES								
L0001342		0	0.10730E-06	378870.9	3747014.3	18.1	3.49	4.00	
3.25	YES								
L0001343		0	0.10730E-06	378870.9	3747022.9	18.0	3.49	4.00	
3.25	YES								
L0001344		0	0.10730E-06	378870.9	3747031.5	18.0	3.49	4.00	
3.25	YES								
L0001345		0	0.10730E-06	378870.9	3747040.1	18.0	3.49	4.00	
3.25	YES								
L0001346		0	0.10730E-06	378870.9	3747048.7	18.0	3.49	4.00	
3.25	YES								
L0001347		0	0.10730E-06	378870.9	3747057.3	18.0	3.49	4.00	
3.25	YES								
L0001348		0	0.10730E-06	378870.9	3747065.9	18.0	3.49	4.00	
3.25	YES								
L0001349		0	0.10730E-06	378870.9	3747074.5	18.0	3.49	4.00	
3.25	YES								
L0001350		0	0.10730E-06	378870.9	3747083.0	18.0	3.49	4.00	
3.25	YES								
L0001351		0	0.10730E-06	378870.9	3747091.6	18.0	3.49	4.00	

3.25	YES							
L0001352		0	0.10730E-06	378870.9	3747100.2	18.0	3.49	4.00
3.25	YES							
L0001353		0	0.10730E-06	378870.9	3747108.8	18.0	3.49	4.00
3.25	YES							
L0001354		0	0.10730E-06	378871.6	3747117.4	18.0	3.49	4.00
3.25	YES							
L0001355		0	0.10730E-06	378872.5	3747125.9	18.0	3.49	4.00
3.25	YES							
L0001356		0	0.10730E-06	378873.5	3747134.4	17.9	3.49	4.00
3.25	YES							
L0001357		0	0.10730E-06	378874.4	3747143.0	17.8	3.49	4.00
3.25	YES							
L0001358		0	0.10730E-06	378875.3	3747151.5	17.7	3.49	4.00
3.25	YES							
L0001359		0	0.10730E-06	378876.2	3747160.1	17.6	3.49	4.00
3.25	YES							
L0001360		0	0.10730E-06	378877.1	3747168.6	17.6	3.49	4.00
3.25	YES							
L0001361		0	0.10730E-06	378878.3	3747177.1	17.5	3.49	4.00
3.25	YES							
L0001362		0	0.10730E-06	378880.5	3747185.4	17.4	3.49	4.00
3.25	YES							
L0001363		0	0.10730E-06	378882.7	3747193.7	17.3	3.49	4.00
3.25	YES							
L0001364		0	0.10730E-06	378884.9	3747202.0	17.2	3.49	4.00
3.25	YES							
L0001365		0	0.10730E-06	378887.1	3747210.3	17.1	3.49	4.00
3.25	YES							
L0001366		0	0.10730E-06	378889.3	3747218.6	17.0	3.49	4.00
3.25	YES							
L0001367		0	0.10730E-06	378884.6	3747221.7	17.0	3.49	4.00
3.25	YES							
L0001368		0	0.10730E-06	378876.0	3747221.8	17.0	3.49	4.00
3.25	YES							
L0001369		0	0.10730E-06	378867.4	3747221.9	17.0	3.49	4.00
3.25	YES							
L0001370		0	0.10730E-06	378858.8	3747221.9	17.0	3.49	4.00
3.25	YES							
L0001371		0	0.10730E-06	378850.2	3747222.0	17.0	3.49	4.00
3.25	YES							
L0001372		0	0.10730E-06	378841.6	3747222.1	17.0	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.	BY						
(METERS)									
L0001373		0	0.10730E-06	378833.0	3747222.2	17.0	3.49	4.00	
3.25	YES								
L0001374		0	0.10730E-06	378824.4	3747222.3	17.0	3.49	4.00	
3.25	YES								
L0001375		0	0.10730E-06	378815.9	3747222.4	17.1	3.49	4.00	
3.25	YES								
L0001376		0	0.10730E-06	378807.3	3747222.5	17.2	3.49	4.00	
3.25	YES								
L0001377		0	0.10730E-06	378798.7	3747222.6	17.3	3.49	4.00	
3.25	YES								
L0001378		0	0.10730E-06	378790.1	3747222.7	17.4	3.49	4.00	
3.25	YES								
L0001379		0	0.10730E-06	378781.5	3747222.8	17.5	3.49	4.00	
3.25	YES								
L0001380		0	0.10730E-06	378772.9	3747222.9	17.6	3.49	4.00	
3.25	YES								
L0001381		0	0.10730E-06	378764.3	3747222.9	17.7	3.49	4.00	
3.25	YES								
L0001382		0	0.10730E-06	378755.7	3747223.0	17.8	3.49	4.00	
3.25	YES								
L0001383		0	0.10730E-06	378747.1	3747223.1	17.9	3.49	4.00	
3.25	YES								
L0001384		0	0.10730E-06	378738.5	3747223.2	18.0	3.49	4.00	
3.25	YES								
L0001385		0	0.10730E-06	378730.0	3747223.3	18.0	3.49	4.00	
3.25	YES								
L0001386		0	0.10730E-06	378721.4	3747223.4	18.0	3.49	4.00	
3.25	YES								
L0001387		0	0.10730E-06	378712.8	3747223.5	18.0	3.49	4.00	
3.25	YES								
L0001388		0	0.10730E-06	378704.2	3747223.6	18.0	3.49	4.00	
3.25	YES								
L0001389		0	0.10730E-06	378695.6	3747223.7	18.0	3.49	4.00	
3.25	YES								
L0001390		0	0.10730E-06	378687.0	3747223.8	18.0	3.49	4.00	
3.25	YES								
L0001391		0	0.10730E-06	378686.6	3747232.1	18.0	3.49	4.00	

3.25	YES							
L0001392		0	0.10730E-06	378686.5	3747240.7	17.9	3.49	4.00
3.25	YES							
L0001393		0	0.10730E-06	378686.3	3747249.3	17.9	3.49	4.00
3.25	YES							
L0001394		0	0.10730E-06	378686.2	3747257.9	17.9	3.49	4.00
3.25	YES							
L0001395		0	0.10730E-06	378686.1	3747266.4	17.9	3.49	4.00
3.25	YES							
L0001396		0	0.10730E-06	378685.9	3747275.0	17.9	3.49	4.00
3.25	YES							
L0001397		0	0.10730E-06	378685.8	3747283.6	17.8	3.49	4.00
3.25	YES							
L0001398		0	0.10730E-06	378685.7	3747292.2	17.8	3.49	4.00
3.25	YES							
L0001399		0	0.10730E-06	378685.5	3747300.8	17.8	3.49	4.00
3.25	YES							
L0001400		0	0.10730E-06	378685.4	3747309.4	17.8	3.49	4.00
3.25	YES							
L0001401		0	0.10730E-06	378685.3	3747318.0	17.7	3.49	4.00
3.25	YES							
L0001402		0	0.10730E-06	378685.1	3747326.6	17.7	3.49	4.00
3.25	YES							
L0001403		0	0.10730E-06	378685.0	3747335.2	17.6	3.49	4.00
3.25	YES							
L0001404		0	0.10730E-06	378684.9	3747343.7	17.5	3.49	4.00
3.25	YES							
L0001405		0	0.10730E-06	378684.8	3747352.3	17.5	3.49	4.00
3.25	YES							
L0001406		0	0.10730E-06	378684.6	3747360.9	17.4	3.49	4.00
3.25	YES							
L0001407		0	0.10730E-06	378684.5	3747369.5	17.3	3.49	4.00
3.25	YES							
L0001408		0	0.80870E-07	378483.9	3746748.9	21.0	3.49	4.00
3.25	YES							
L0001409		0	0.80870E-07	378492.5	3746748.3	21.0	3.49	4.00
3.25	YES							
L0001410		0	0.80870E-07	378501.1	3746747.7	21.0	3.49	4.00
3.25	YES							
L0001411		0	0.80870E-07	378509.7	3746747.1	21.0	3.49	4.00
3.25	YES							
L0001412		0	0.80870E-07	378518.2	3746746.5	21.0	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.	BY						
(METERS)									
L0001413		0	0.80870E-07	378526.8	3746745.9	21.0	3.49	4.00	
3.25	YES								
L0001414		0	0.80870E-07	378535.4	3746745.3	21.0	3.49	4.00	
3.25	YES								
L0001415		0	0.80870E-07	378543.9	3746744.7	21.0	3.49	4.00	
3.25	YES								
L0001416		0	0.80870E-07	378552.5	3746744.5	21.0	3.49	4.00	
3.25	YES								
L0001417		0	0.80870E-07	378561.1	3746744.5	21.0	3.49	4.00	
3.25	YES								
L0001418		0	0.80870E-07	378569.7	3746744.5	21.0	3.49	4.00	
3.25	YES								
L0001419		0	0.80870E-07	378578.3	3746744.5	21.0	3.49	4.00	
3.25	YES								
L0001420		0	0.80870E-07	378586.9	3746744.5	20.9	3.49	4.00	
3.25	YES								
L0001421		0	0.80870E-07	378595.5	3746744.5	20.9	3.49	4.00	
3.25	YES								
L0001422		0	0.80870E-07	378604.1	3746744.5	20.8	3.49	4.00	
3.25	YES								
L0001423		0	0.80870E-07	378612.6	3746744.5	20.7	3.49	4.00	
3.25	YES								
L0001424		0	0.80870E-07	378621.2	3746744.5	20.6	3.49	4.00	
3.25	YES								
L0001425		0	0.80870E-07	378629.8	3746744.5	20.5	3.49	4.00	
3.25	YES								
L0001426		0	0.80870E-07	378638.4	3746744.5	20.4	3.49	4.00	
3.25	YES								
L0001427		0	0.80870E-07	378647.0	3746744.5	20.3	3.49	4.00	
3.25	YES								
L0001428		0	0.80870E-07	378655.6	3746744.5	20.2	3.49	4.00	
3.25	YES								
L0001429		0	0.80870E-07	378664.2	3746744.5	20.2	3.49	4.00	
3.25	YES								
L0001430		0	0.80870E-07	378672.8	3746744.5	20.2	3.49	4.00	
3.25	YES								
L0001431		0	0.80870E-07	378681.2	3746745.7	20.2	3.49	4.00	

3.25	YES							
L0001432		0	0.80870E-07	378689.5	3746747.9	20.1	3.49	4.00
3.25	YES							
L0001433		0	0.80870E-07	378697.8	3746750.2	20.1	3.49	4.00
3.25	YES							
L0001434		0	0.80870E-07	378706.1	3746752.4	20.1	3.49	4.00
3.25	YES							
L0001435		0	0.80870E-07	378714.4	3746754.6	20.1	3.49	4.00
3.25	YES							
L0001436		0	0.80870E-07	378722.7	3746756.8	20.0	3.49	4.00
3.25	YES							
L0001437		0	0.80870E-07	378731.0	3746759.0	20.0	3.49	4.00
3.25	YES							
L0001438		0	0.80870E-07	378739.5	3746759.6	20.0	3.49	4.00
3.25	YES							
L0001439		0	0.80870E-07	378748.0	3746759.2	20.0	3.49	4.00
3.25	YES							
L0001440		0	0.80870E-07	378756.6	3746758.7	20.0	3.49	4.00
3.25	YES							
L0001441		0	0.80870E-07	378765.2	3746758.3	20.0	3.49	4.00
3.25	YES							
L0001442		0	0.80870E-07	378773.8	3746757.9	20.0	3.49	4.00
3.25	YES							
L0001443		0	0.80870E-07	378782.4	3746757.5	20.0	3.49	4.00
3.25	YES							
L0001444		0	0.80870E-07	378790.9	3746757.0	20.0	3.49	4.00
3.25	YES							
L0001445		0	0.80870E-07	378799.5	3746756.6	20.0	3.49	4.00
3.25	YES							
L0001446		0	0.80870E-07	378808.1	3746756.2	20.0	3.49	4.00
3.25	YES							
L0001447		0	0.80870E-07	378816.7	3746755.7	20.0	3.49	4.00
3.25	YES							
L0001448		0	0.80870E-07	378825.3	3746755.3	19.9	3.49	4.00
3.25	YES							
L0001449		0	0.80870E-07	378833.8	3746754.9	19.7	3.49	4.00
3.25	YES							
L0001450		0	0.80870E-07	378842.4	3746754.4	19.6	3.49	4.00
3.25	YES							
L0001451		0	0.80870E-07	378851.0	3746754.0	19.5	3.49	4.00
3.25	YES							
L0001452		0	0.80870E-07	378859.6	3746753.6	19.4	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.
SOURCE		EMISSION	RATE			ELEV.	HEIGHT	SY
SZ	SOURCE	PART.	(GRAMS/SEC)	X	Y	(METERS)	(METERS)	(METERS)
ID	SCALAR	VARY						
(METERS)	CATS.	BY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
L0001453	0	0.80870E-07	378868.0	3746753.0	19.3	3.49	4.00	
3.25	YES							
L0001454	0	0.80870E-07	378868.0	3746744.4	19.3	3.49	4.00	
3.25	YES							
L0001455	0	0.80870E-07	378868.0	3746735.8	19.3	3.49	4.00	
3.25	YES							
L0001456	0	0.80870E-07	378868.0	3746727.2	19.3	3.49	4.00	
3.25	YES							
L0001457	0	0.80870E-07	378868.1	3746718.6	19.3	3.49	4.00	
3.25	YES							
L0001458	0	0.80870E-07	378868.1	3746710.0	19.3	3.49	4.00	
3.25	YES							
L0001459	0	0.80870E-07	378868.1	3746701.4	19.3	3.49	4.00	
3.25	YES							
L0001460	0	0.80870E-07	378868.2	3746692.8	19.3	3.49	4.00	
3.25	YES							
L0001461	0	0.80870E-07	378868.2	3746684.3	19.3	3.49	4.00	
3.25	YES							
L0001462	0	0.80870E-07	378868.2	3746675.7	19.3	3.49	4.00	
3.25	YES							
L0001463	0	0.80870E-07	378868.3	3746667.1	19.3	3.49	4.00	
3.25	YES							
L0001464	0	0.80870E-07	378868.3	3746658.5	19.3	3.49	4.00	
3.25	YES							
L0001465	0	0.80870E-07	378868.3	3746649.9	19.4	3.49	4.00	
3.25	YES							
L0001466	0	0.80870E-07	378868.4	3746641.3	19.5	3.49	4.00	
3.25	YES							
L0001467	0	0.80870E-07	378868.4	3746632.7	19.5	3.49	4.00	
3.25	YES							
L0001468	0	0.80870E-07	378868.4	3746624.1	19.6	3.49	4.00	
3.25	YES							
L0001469	0	0.80870E-07	378868.4	3746615.5	19.7	3.49	4.00	
3.25	YES							
L0001470	0	0.80870E-07	378868.5	3746606.9	19.7	3.49	4.00	
3.25	YES							
L0001471	0	0.80870E-07	378868.5	3746598.4	19.8	3.49	4.00	

3.25	YES							
L0001472		0	0.80870E-07	378868.5	3746589.8	19.9	3.49	4.00
3.25	YES							
L0001473		0	0.80870E-07	378868.6	3746581.2	19.9	3.49	4.00
3.25	YES							
L0001474		0	0.80870E-07	378868.6	3746572.6	20.0	3.49	4.00
3.25	YES							
L0001475		0	0.80870E-07	378868.6	3746564.0	20.0	3.49	4.00
3.25	YES							
L0001476		0	0.13350E-06	378868.8	3746996.4	18.1	3.49	4.00
3.25	YES							
L0001477		0	0.13350E-06	378868.8	3746987.8	18.2	3.49	4.00
3.25	YES							
L0001478		0	0.13350E-06	378868.8	3746979.2	18.2	3.49	4.00
3.25	YES							
L0001479		0	0.13350E-06	378868.8	3746970.6	18.2	3.49	4.00
3.25	YES							
L0001480		0	0.13350E-06	378868.8	3746962.0	18.2	3.49	4.00
3.25	YES							
L0001481		0	0.13350E-06	378868.8	3746953.4	18.3	3.49	4.00
3.25	YES							
L0001482		0	0.13350E-06	378868.8	3746944.8	18.3	3.49	4.00
3.25	YES							
L0001483		0	0.13350E-06	378868.8	3746936.3	18.4	3.49	4.00
3.25	YES							
L0001484		0	0.13350E-06	378868.8	3746927.7	18.4	3.49	4.00
3.25	YES							
L0001485		0	0.13350E-06	378868.8	3746919.1	18.5	3.49	4.00
3.25	YES							
L0001486		0	0.13350E-06	378868.8	3746910.5	18.6	3.49	4.00
3.25	YES							
L0001487		0	0.13350E-06	378868.8	3746901.9	18.6	3.49	4.00
3.25	YES							
L0001488		0	0.13350E-06	378868.8	3746893.3	18.7	3.49	4.00
3.25	YES							
L0001489		0	0.13350E-06	378868.8	3746884.7	18.7	3.49	4.00
3.25	YES							
L0001490		0	0.13350E-06	378868.8	3746876.1	18.8	3.49	4.00
3.25	YES							
L0001491		0	0.13350E-06	378868.8	3746867.5	18.9	3.49	4.00
3.25	YES							
L0001492		0	0.13350E-06	378868.8	3746858.9	18.9	3.49	4.00

3.25 YES
 *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SOURCE		EMISSION	RATE	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	SY
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
ID		CATS.		BY					
(METERS)									

L0001493		0	0.13350E-06	378868.8	3746850.4	19.0	3.49	4.00
3.25	YES							
L0001494		0	0.13350E-06	378868.8	3746841.8	19.0	3.49	4.00
3.25	YES							
L0001495		0	0.13350E-06	378868.8	3746833.2	19.1	3.49	4.00
3.25	YES							
L0001496		0	0.13350E-06	378868.8	3746824.6	19.1	3.49	4.00
3.25	YES							
L0001497		0	0.13350E-06	378868.8	3746816.0	19.1	3.49	4.00
3.25	YES							
L0001498		0	0.13350E-06	378868.8	3746807.4	19.1	3.49	4.00
3.25	YES							
L0001499		0	0.13350E-06	378868.8	3746798.8	19.2	3.49	4.00
3.25	YES							
L0001500		0	0.13350E-06	378868.8	3746790.2	19.2	3.49	4.00
3.25	YES							
L0001501		0	0.13350E-06	378868.8	3746781.6	19.2	3.49	4.00
3.25	YES							
L0001502		0	0.13350E-06	378868.8	3746773.0	19.2	3.49	4.00
3.25	YES							
L0001503		0	0.13350E-06	378868.8	3746764.5	19.3	3.49	4.00
3.25	YES							

▲ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs

ALL L0000973 , L0000974 , L0000975 , L0000976 , L0000977 ,
L0000978 , L0000979 , L0000980 ,
L0000986 L0000981 , L0000982 , L0000983 , L0000984 , L0000985 ,
, L0000987 , L0000988 ,
L0000994 L0000989 , L0000990 , L0000991 , L0000992 , L0000993 ,
, L0000995 , L0000996 ,
L0001002 L0000997 , L0000998 , L0000999 , L0001000 , L0001001 ,
, L0001003 , L0001004 ,
L0001010 L0001005 , L0001006 , L0001007 , L0001008 , L0001009 ,
, L0001011 , L0001012 ,
L0001018 L0001013 , L0001014 , L0001015 , L0001016 , L0001017 ,
, L0001019 , L0001020 ,
L0001026 L0001021 , L0001022 , L0001023 , L0001024 , L0001025 ,
, L0001027 , L0001028 ,
L0001034 L0001029 , L0001030 , L0001031 , L0001032 , L0001033 ,
, L0001035 , L0001036 ,
L0001042 L0001037 , L0001038 , L0001039 , L0001040 , L0001041 ,
, L0001043 , L0001044 ,
L0001050 L0001045 , L0001046 , L0001047 , L0001048 , L0001049 ,
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L0001058 L0001053 , L0001054 , L0001055 , L0001056 , L0001057 ,
, L0001059 , L0001060 ,
L0001066 L0001061 , L0001062 , L0001063 , L0001064 , L0001065 ,
, L0001067 , L0001068 ,
L0001074 L0001069 , L0001070 , L0001071 , L0001072 , L0001073 ,
, L0001075 , L0001076 ,
L0001082 L0001077 , L0001078 , L0001079 , L0001080 , L0001081 ,
, L0001083 , L0001084 ,
L0001090 L0001085 , L0001086 , L0001087 , L0001088 , L0001089 ,
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L0001101 , L0001102 , L0001103 , L0001104 , L0001105 ,


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L0001106 , L0001107 , L0001108 ,
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L0001114 , L0001115 , L0001116 ,
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L0001122 , L0001123 , L0001124 ,
      L0001125 , L0001126 , L0001127 , L0001128 , L0001129 ,
L0001130 , L0001131 , L0001132 ,
^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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*** AERMET - VERSION 16216 *** ***
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID	SOURCE IDs				
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L0001138	L0001133 ,	L0001134 ,	L0001135 ,	L0001136 ,	L0001137 ,
	L0001139 ,	L0001140 ,			
L0001146	L0001141 ,	L0001142 ,	L0001143 ,	L0001144 ,	L0001145 ,
	L0001147 ,	L0001148 ,			
L0001154	L0001149 ,	L0001150 ,	L0001151 ,	L0001152 ,	L0001153 ,
	L0001155 ,	L0001156 ,			
L0001162	L0001157 ,	L0001158 ,	L0001159 ,	L0001160 ,	L0001161 ,
	L0001163 ,	L0001164 ,			
L0001170	L0001165 ,	L0001166 ,	L0001167 ,	L0001168 ,	L0001169 ,
	L0001171 ,	L0001172 ,			
L0001178	L0001173 ,	L0001174 ,	L0001175 ,	L0001176 ,	L0001177 ,
	L0001179 ,	L0001180 ,			
L0001186	L0001181 ,	L0001182 ,	L0001183 ,	L0001184 ,	L0001185 ,
	L0001187 ,	L0001188 ,			
L0001194	L0001189 ,	L0001190 ,	L0001191 ,	L0001192 ,	L0001193 ,
	L0001195 ,	L0001196 ,			

L0001202 L0001197 , L0001198 , L0001199 , L0001200 , L0001201 ,
 , L0001203 , L0001204 ,

 L0001210 L0001205 , L0001206 , L0001207 , L0001208 , L0001209 ,
 , L0001211 , L0001212 ,

 L0001218 L0001213 , L0001214 , L0001215 , L0001216 , L0001217 ,
 , L0001219 , L0001220 ,

 L0001226 L0001221 , L0001222 , L0001223 , L0001224 , L0001225 ,
 , L0001227 , L0001228 ,

 L0001234 L0001229 , L0001230 , L0001231 , L0001232 , L0001233 ,
 , L0001235 , L0001236 ,

 L0001242 L0001237 , L0001238 , L0001239 , L0001240 , L0001241 ,
 , L0001243 , L0001244 ,

 L0001250 L0001245 , L0001246 , L0001247 , L0001248 , L0001249 ,
 , L0001251 , L0001252 ,

 L0001258 L0001253 , L0001254 , L0001255 , L0001256 , L0001257 ,
 , L0001259 , L0001260 ,

 L0001266 L0001261 , L0001262 , L0001263 , L0001264 , L0001265 ,
 , L0001267 , L0001268 ,

 L0001274 L0001269 , L0001270 , L0001271 , L0001272 , L0001273 ,
 , L0001275 , L0001276 ,

 L0001282 L0001277 , L0001278 , L0001279 , L0001280 , L0001281 ,
 , L0001283 , L0001284 ,

 L0001290 L0001285 , L0001286 , L0001287 , L0001288 , L0001289 ,
 , L0001291 , L0001292 ,

▲ *** AERMOD - VERSION 19191 *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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 *** AERMET - VERSION 16216 *** ***
 *** 12:05:46

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs

L0001298	L0001293 , L0001299	, L0001294 , L0001300	, L0001295 ,	, L0001296	, L0001297	,
L0001306	L0001301 , L0001307	, L0001302 , L0001308	, L0001303 ,	, L0001304	, L0001305	,
L0001314	L0001309 , L0001315	, L0001310 , L0001316	, L0001311 ,	, L0001312	, L0001313	,
L0001322	L0001317 , L0001323	, L0001318 , L0001324	, L0001319 ,	, L0001320	, L0001321	,
L0001330	L0001325 , L0001331	, L0001326 , L0001332	, L0001327 ,	, L0001328	, L0001329	,
L0001338	L0001333 , L0001339	, L0001334 , L0001340	, L0001335 ,	, L0001336	, L0001337	,
L0001346	L0001341 , L0001347	, L0001342 , L0001348	, L0001343 ,	, L0001344	, L0001345	,
L0001354	L0001349 , L0001355	, L0001350 , L0001356	, L0001351 ,	, L0001352	, L0001353	,
L0001362	L0001357 , L0001363	, L0001358 , L0001364	, L0001359 ,	, L0001360	, L0001361	,
L0001370	L0001365 , L0001371	, L0001366 , L0001372	, L0001367 ,	, L0001368	, L0001369	,
L0001378	L0001373 , L0001379	, L0001374 , L0001380	, L0001375 ,	, L0001376	, L0001377	,
L0001386	L0001381 , L0001387	, L0001382 , L0001388	, L0001383 ,	, L0001384	, L0001385	,
L0001394	L0001389 , L0001395	, L0001390 , L0001396	, L0001391 ,	, L0001392	, L0001393	,
L0001402	L0001397 , L0001403	, L0001398 , L0001404	, L0001399 ,	, L0001400	, L0001401	,
L0001410	L0001405 , L0001411	, L0001406 , L0001412	, L0001407 ,	, L0001408	, L0001409	,
L0001418	L0001413 , L0001419	, L0001414 , L0001420	, L0001415 ,	, L0001416	, L0001417	,
	L0001421	, L0001422	, L0001423	, L0001424	, L0001425	,

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L0001426 , L0001427 , L0001428 ,
      L0001429 , L0001430 , L0001431 , L0001432 , L0001433 ,
L0001434 , L0001435 , L0001436 ,
      L0001437 , L0001438 , L0001439 , L0001440 , L0001441 ,
L0001442 , L0001443 , L0001444 ,
      L0001445 , L0001446 , L0001447 , L0001448 , L0001449 ,
L0001450 , L0001451 , L0001452 ,
^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS

SRCGROUP ID

SOURCE IDs

```

      L0001453 , L0001454 , L0001455 , L0001456 , L0001457 ,
L0001458 , L0001459 , L0001460 ,
      L0001461 , L0001462 , L0001463 , L0001464 , L0001465 ,
L0001466 , L0001467 , L0001468 ,
      L0001469 , L0001470 , L0001471 , L0001472 , L0001473 ,
L0001474 , L0001475 , L0001476 ,
      L0001477 , L0001478 , L0001479 , L0001480 , L0001481 ,
L0001482 , L0001483 , L0001484 ,
      L0001485 , L0001486 , L0001487 , L0001488 , L0001489 ,
L0001490 , L0001491 , L0001492 ,
      L0001493 , L0001494 , L0001495 , L0001496 , L0001497 ,
L0001498 , L0001499 , L0001500 ,
      L0001501 , L0001502 , L0001503 ,
^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
L0000977	9818605.	L0000973	, L0000974	, L0000975	, L0000976	, L0000977	, L0000978
L0000980		, L0000979	, L0000980	, L0000981	, L0000982	, L0000983	, L0000984
L0000986	L0000981	, L0000982	, L0000983	, L0000984	, L0000985	, L0000986	, L0000987
L0000994	L0000989	, L0000990	, L0000991	, L0000992	, L0000993	, L0000994	, L0000995
L0001002	L0000997	, L0000998	, L0000999	, L0001000	, L0001001	, L0001002	, L0001003
L0001010	L0001005	, L0001006	, L0001007	, L0001008	, L0001009	, L0001010	, L0001011
L0001018	L0001013	, L0001014	, L0001015	, L0001016	, L0001017	, L0001018	, L0001019
L0001026	L0001021	, L0001022	, L0001023	, L0001024	, L0001025	, L0001026	, L0001027
L0001034	L0001029	, L0001030	, L0001031	, L0001032	, L0001033	, L0001034	, L0001035
L0001042	L0001037	, L0001038	, L0001039	, L0001040	, L0001041	, L0001042	, L0001043
L0001050	L0001045	, L0001046	, L0001047	, L0001048	, L0001049	, L0001050	, L0001051
L0001058	L0001053	, L0001054	, L0001055	, L0001056	, L0001057	, L0001058	, L0001059
L0001066	L0001061	, L0001062	, L0001063	, L0001064	, L0001065	, L0001066	, L0001067
L0001074	L0001069	, L0001070	, L0001071	, L0001072	, L0001073	, L0001074	, L0001075

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L0001082    L0001077    , L0001078    , L0001079    , L0001080    , L0001081    ,
            , L0001083    , L0001084    ,
L0001090    L0001085    , L0001086    , L0001087    , L0001088    , L0001089    ,
            , L0001091    , L0001092    ,
L0001098    L0001093    , L0001094    , L0001095    , L0001096    , L0001097    ,
            , L0001099    , L0001100    ,
L0001106    L0001101    , L0001102    , L0001103    , L0001104    , L0001105    ,
            , L0001107    , L0001108    ,
L0001114    L0001109    , L0001110    , L0001111    , L0001112    , L0001113    ,
            , L0001115    , L0001116    ,
L0001122    L0001117    , L0001118    , L0001119    , L0001120    , L0001121    ,
            , L0001123    , L0001124    ,
L0001130    L0001125    , L0001126    , L0001127    , L0001128    , L0001129    ,
            , L0001131    , L0001132    ,
^ *** AERMOD - VERSION 19191 *** ** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0001138	L0001133 , L0001139	L0001133 , L0001134 , L0001135 , L0001136 , L0001137 , L0001140
L0001146	L0001141 , L0001147	L0001141 , L0001142 , L0001143 , L0001144 , L0001145 , L0001148
L0001154	L0001149 , L0001155	L0001149 , L0001150 , L0001151 , L0001152 , L0001153 , L0001156
L0001162	L0001157 , L0001163	L0001157 , L0001158 , L0001159 , L0001160 , L0001161 , L0001164
	L0001165	L0001165 , L0001166 , L0001167 , L0001168 , L0001169

L0001170 , L0001171 , L0001172 ,
 L0001173 , L0001174 , L0001175 , L0001176 , L0001177 ,
 L0001178 , L0001179 , L0001180 ,
 L0001181 , L0001182 , L0001183 , L0001184 , L0001185 ,
 L0001186 , L0001187 , L0001188 ,
 L0001189 , L0001190 , L0001191 , L0001192 , L0001193 ,
 L0001194 , L0001195 , L0001196 ,
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 L0001290 , L0001291 , L0001292 ,

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*** AERMET - VERSION 16216 ***

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
L0001298	L0001293 , L0001299	L0001294 , L0001300	L0001295 ,	L0001296 ,	L0001297 ,		
L0001306	L0001301 , L0001307	L0001302 , L0001308	L0001303 ,	L0001304 ,	L0001305 ,		
L0001314	L0001309 , L0001315	L0001310 , L0001316	L0001311 ,	L0001312 ,	L0001313 ,		
L0001322	L0001317 , L0001323	L0001318 , L0001324	L0001319 ,	L0001320 ,	L0001321 ,		
L0001330	L0001325 , L0001331	L0001326 , L0001332	L0001327 ,	L0001328 ,	L0001329 ,		
L0001338	L0001333 , L0001339	L0001334 , L0001340	L0001335 ,	L0001336 ,	L0001337 ,		
L0001346	L0001341 , L0001347	L0001342 , L0001348	L0001343 ,	L0001344 ,	L0001345 ,		
L0001354	L0001349 , L0001355	L0001350 , L0001356	L0001351 ,	L0001352 ,	L0001353 ,		
L0001362	L0001357 , L0001363	L0001358 , L0001364	L0001359 ,	L0001360 ,	L0001361 ,		
L0001370	L0001365 , L0001371	L0001366 , L0001372	L0001367 ,	L0001368 ,	L0001369 ,		
L0001378	L0001373 , L0001379	L0001374 , L0001380	L0001375 ,	L0001376 ,	L0001377 ,		
L0001386	L0001381 , L0001387	L0001382 , L0001388	L0001383 ,	L0001384 ,	L0001385 ,		
L0001394	L0001389 , L0001395	L0001390 , L0001396	L0001391 ,	L0001392 ,	L0001393 ,		


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L0001402    L0001397    , L0001398    , L0001399    , L0001400    , L0001401    ,
            , L0001403    , L0001404    ,
L0001410    L0001405    , L0001406    , L0001407    , L0001408    , L0001409    ,
            , L0001411    , L0001412    ,
L0001418    L0001413    , L0001414    , L0001415    , L0001416    , L0001417    ,
            , L0001419    , L0001420    ,
L0001426    L0001421    , L0001422    , L0001423    , L0001424    , L0001425    ,
            , L0001427    , L0001428    ,
L0001434    L0001429    , L0001430    , L0001431    , L0001432    , L0001433    ,
            , L0001435    , L0001436    ,
L0001442    L0001437    , L0001438    , L0001439    , L0001440    , L0001441    ,
            , L0001443    , L0001444    ,
L0001450    L0001445    , L0001446    , L0001447    , L0001448    , L0001449    ,
            , L0001451    , L0001452    ,
^ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
L0001458	L0001453 , L0001454 , L0001455 , L0001456 , L0001457 , , L0001459 , L0001460 ,	
L0001466	L0001461 , L0001462 , L0001463 , L0001464 , L0001465 , , L0001467 , L0001468 ,	
L0001474	L0001469 , L0001470 , L0001471 , L0001472 , L0001473 , , L0001475 , L0001476 ,	
L0001482	L0001477 , L0001478 , L0001479 , L0001480 , L0001481 , , L0001483 , L0001484 ,	
	L0001485 , L0001486 , L0001487 , L0001488 , L0001489 ,	

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

CATEGORIES ***
 *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
 (METERS/SEC)

1.54, 3.09, 5.14, 8.23,
 10.80,

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

DATA ***
 *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL

Surface file: ..\KHR_V9_ADJU\KHR_V9.SFC
 Met Version: 16216
 Profile file: ..\KHR_V9_ADJU\KHR_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3167 Upper air station no.: 3190
 Name: UNKNOWN Name: UNKNOWN
 Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
12	01	01	1	01	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	
1.00	0.00	0.			7.9	283.8	2.0							
12	01	01	1	02	-2.1	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	
1.00	0.53	305.			7.9	283.1	2.0							
12	01	01	1	03	-9.0	0.127	-9.000	-9.000	-999.	109.	20.8	0.24	2.79	
1.00	1.18	323.			7.9	282.5	2.0							
12	01	01	1	04	-2.2	0.068	-9.000	-9.000	-999.	43.	13.3	0.24	2.79	
1.00	0.53	296.			7.9	282.0	2.0							
12	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79	
1.00	0.00	0.			7.9	281.4	2.0							

12	01	01	1	06	-6.0	0.103	-9.000	-9.000	-999.	80.	16.7	0.24	2.79
1.00	0.97	321.			7.9	281.4	2.0						
12	01	01	1	07	-4.3	0.088	-9.000	-9.000	-999.	63.	14.4	0.24	2.79
1.00	0.82	313.			7.9	280.4	2.0						
12	01	01	1	08	15.7	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.24	2.79
0.55	0.00	0.			7.9	281.4	2.0						
12	01	01	1	09	35.7	0.115	0.353	0.013	45.	93.	-3.8	0.24	2.79
0.32	0.63	179.			7.9	285.4	2.0						
12	01	01	1	10	109.0	0.141	0.727	0.009	128.	127.	-2.3	0.24	2.79
0.24	0.70	170.			7.9	289.2	2.0						
12	01	01	1	11	164.4	0.149	1.186	0.005	370.	138.	-1.8	0.24	2.79
0.21	0.70	222.			7.9	297.0	2.0						
12	01	01	1	12	191.7	0.163	1.525	0.005	672.	158.	-2.1	0.24	2.79
0.20	0.79	12.			7.9	299.9	2.0						
12	01	01	1	13	191.3	0.170	1.819	0.005	1144.	168.	-2.3	0.24	2.79
0.20	0.84	260.			7.9	300.9	2.0						
12	01	01	1	14	161.6	0.344	1.852	0.005	1428.	483.	-22.7	0.24	2.79
0.21	2.49	260.			7.9	298.8	2.0						
12	01	01	1	15	105.0	0.367	1.638	0.005	1521.	534.	-42.8	0.24	2.79
0.24	2.84	292.			7.9	293.8	2.0						
12	01	01	1	16	29.7	0.383	1.079	0.005	1539.	570.	-172.5	0.24	2.79
0.33	3.22	276.			7.9	290.4	2.0						
12	01	01	1	17	-24.8	0.287	-9.000	-9.000	-999.	374.	90.3	0.24	2.79
0.59	2.52	284.			7.9	289.2	2.0						
12	01	01	1	18	-26.7	0.269	-9.000	-9.000	-999.	336.	79.8	0.24	2.79
1.00	2.38	285.			7.9	287.5	2.0						
12	01	01	1	19	-10.2	0.137	-9.000	-9.000	-999.	133.	22.7	0.24	2.79
1.00	1.26	287.			7.9	287.5	2.0						
12	01	01	1	20	-6.2	0.106	-9.000	-9.000	-999.	83.	17.2	0.24	2.79
1.00	0.99	303.			7.9	287.0	2.0						
12	01	01	1	21	-7.6	0.117	-9.000	-9.000	-999.	96.	19.1	0.24	2.79
1.00	1.09	326.			7.9	286.4	2.0						
12	01	01	1	22	-6.8	0.110	-9.000	-9.000	-999.	88.	18.0	0.24	2.79
1.00	1.03	297.			7.9	285.9	2.0						
12	01	01	1	23	-19.9	0.200	-9.000	-9.000	-999.	214.	43.9	0.24	2.79
1.00	1.79	290.			7.9	285.9	2.0						
12	01	01	1	24	-19.6	0.196	-9.000	-9.000	-999.	209.	42.3	0.24	2.79
1.00	1.76	282.			7.9	285.9	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
12	01	01	01	7.9	1	-999.	-99.00	283.8	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

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^ *** AERMOD - VERSION 19191 ***      *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
OPS\14092 OPS.ISC                    ***      11/01/21
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***      12:05:46

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5 YEARS FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000973 , L0000974
, L0000975 , L0000976 , L0000977 ,
, L0000978 , L0000979 , L0000980 , L0000981 , L0000982
, L0000983 , L0000984 , L0000985 ,
, L0000986 , L0000987 , L0000988 , L0000989 , L0000990
, L0000991 , L0000992 , L0000993 ,
, L0000994 , L0000995 , L0000996 , L0000997 , L0000998
, L0000999 , L0001000 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

** CONC OF DPM IN MICROGRAMS/M**3

**

X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC

378386.27 3747188.87 0.00169 378640.26
3747260.36 0.00188
378287.90 3747244.46 0.00152

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OPS\14092 OPS.ISC *** 11/01/21
*** AERMET - VERSION 16216 ***
*** 12:05:46

*** MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM ANNUAL RESULTS
AVERAGED OVER 5 YEARS ***

** CONC OF DPM IN MICROGRAMS/M**3

**

NETWORK

GROUP ID AVERAGE CONC RECEPTOR (XR, YR,
ZELEV, ZHILL, ZFLAG) OF TYPE GRID-ID

ALL	1ST HIGHEST VALUE IS	0.00188 AT (	378640.26,	3747260.36,
18.00,	18.00, 0.00) DC			
	2ND HIGHEST VALUE IS	0.00169 AT (	378386.27,	3747188.87,
19.77,	19.77, 0.00) DC			
	3RD HIGHEST VALUE IS	0.00152 AT (	378287.90,	3747244.46,
19.81,	19.81, 0.00) DC			
	4TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00, 0.00)			
	5TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00, 0.00)			
	6TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00, 0.00)			
	7TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00, 0.00)			
	8TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00, 0.00)			
	9TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00, 0.00)			
	10TH HIGHEST VALUE IS	0.00000 AT (	0.00,	0.00,
0.00,	0.00, 0.00)			

*** RECEPTOR TYPES: GC = GRIDCART
 GP = GRIDPOLR
 DC = DISCCART
 DP = DISCPOLR

▲ *** AERMOD - VERSION 19191 *** *** C:\LAKES\AERMOD VIEW\14092 HRA\14092
 OPS\14092 OPS.ISC *** 11/01/21
 *** AERMET - VERSION 16216 *** ***
 *** 12:05:46

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*** MODELOPTs: RegDFault CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

----- Summary of Total Messages -----

A Total of	0 Fatal Error Message(s)
A Total of	2 Warning Message(s)
A Total of	1474 Informational Message(s)
A Total of	43848 Hours Were Processed
A Total of	1223 Calm Hours Identified
A Total of	251 Missing Hours Identified (0.57 Percent)

***** FATAL ERROR MESSAGES *****

*** NONE ***

***** WARNING MESSAGES *****

ME W186 1365 MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
0.50

ME W187 1365 MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

*** AERMOD Finishes Successfully ***
