

APPENDIX P

Energy Calculations

The following calculations were prepared for the Environmental Impact Report as part of the California Environmental Quality Act process and supplemented with details and analyses specific to the National Environmental Policy Act and related Environmental Assessment.

Energy Updated Analysis

Date: March 24, 2022

To: Terry A. Hayes Associates Inc. (TAHA)
3535 Hayden Avenue, Suite 350
Culver City, CA 90232

From: Meridian Consultants, LLC
920 Hampshire Road, Suite A5
Westlake Village, CA 91361

Subject: Inglewood Transit Connector Environmental Assessment – Energy Memorandum

INTRODUCTION

This memorandum provides a supplemental energy analysis of the proposed Inglewood Transit Connector Project (Project) to be incorporated into an Environmental Assessment (EA) pursuant to the National Environmental Policy Act (NEPA) of 1969. The Project would include an electrically propelled driverless transit system operating on an approximately 1.6-mile long, elevated, guideway primarily located within the public right-of-way along Market Street, Manchester Boulevard, and Prairie Avenue in the City of Inglewood (City). Three stations are proposed along the alignment on privately owned land that would be acquired as part of the Project. Under NEPA, the EA must analyze the effects of not implementing the Project. As such, a No Build Alternative is considered in this analysis. The No Build Alternative reflects the reasonably foreseeable transportation network in future year 2027 and future year 2045 without the Project. Moreover, the No Build Alternative assumes the land uses that would be demolished under Project conditions would remain operational under future year 2027 and future year 2045. The Build Alternative analyzes the Project under opening year 2027 and future year 2045 conditions.

Attachments:

- A Energy Modeling Data
 - A.1 No Build Alternative CalEEMod Data
 - A.2 MSF/Station CalEEMod Data
 - A.3 EMFAC VMT Fuel Data

METHODOLOGY

Regulatory models used to estimate energy data in this analysis include:

- CARB's EMFAC2017 emissions inventory model. EMFAC2017 is an emission inventory model that calculates emission inventories and emission rates for motor vehicles operating on roads in California. This model reflects CARB's understanding of how vehicles travel and how much they emit.
- The California Emissions Estimator Model (CalEEMod), is the CARB-approved computer program model recommended by the South Coast Air Quality Management District (SCAQMD) for use in the quantification of air quality emissions. CalEEMod also quantifies natural gas and electricity usage in buildings based on CEC sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey (RASS) studies.¹

This analysis compares energy consumption associated with the No Build Alternative to those under the Build Alternative. Energy demand for the Build Alternative has been estimated based on generation factors for use type or on specifications for similar facilities at other locations and as estimated by the system design engineers in the Project's Operating Systems Conceptual Report.²

The Project would utilize electricity for the operation of the related support features, such as the trains, stations, and maintenance and storage facility (MSF) via electricity from two power distribution system (PDS) substations. The Build Alternative operational natural gas demand would be generated mainly by building heating/cooling of the MSF and stations. Electricity and natural gas demand generated by the No Build Alternative land uses, which would be demolished under Build Alternative, were calculated using demand factors provided in CalEEMod and subtracted from the Project's electricity and natural gas demand to obtain the net annual energy demand.

Vehicle fuel consumption was calculated based on the vehicle miles traveled (VMT) data generated by the Federal Transit Administration (FTA) Simplified Trips-on-Project Software (STOPS) model. The STOPS model data is presented as delta auto VMT which represents the reduction in VMTs under the Build Alternative compared to the No Build Alternative. Specifically, the following delta auto VMTs were analyzed:

- Annual VMT (2027) – 2,089,417
- Annual VMT (2045) – 2,657,859

1 California Energy Commission, Residential Appliance Saturation Survey, <http://www.energy.ca.gov/appliances/rass>.

2 Lea+Elliott, Inc. Inglewood Transit Connector EIR Operating Systems Conceptual Planning EIR Project Definition - August 2021.

IMPACT ANALYSIS

No Build Alternative

Implementation of the Project would require the acquisition of a number of full and partial property and air rights acquisitions and easements or leases for construction and operation of the guideway, stations, MSF, and other support facilities included in the Project. Presently, a variety of commercial, restaurant, and retail uses exist where the components of the Project would be constructed. These existing uses currently consume energy resources in the form of electricity, natural gas, and transportation fuel. Under the No Build Alternative these uses would not be removed and would continue to operate.

Table 1: No Build Alternative Electricity Demand identifies the annual electricity demand of the existing uses that would remain operational under the No Build Alternative. As shown in **Table 1**, the existing land uses under the No Build Alternative generate approximately 6,489,214 kilowatt-hours (kWh) of electricity per year.

Table 1
No Build Alternative Electricity Demand

Parcel No.	Property Address	Existing Use	Square Footage	Annual Demand (kWh/yr)
4015-027-030	310 E. Florence Ave	Restaurant	1,200 SF	43,776
4015-027-031	300 E. Florence Ave	Restaurant	4,762 SF	173,645
4015-027-032	254 N. Market St	Restaurant	4,608 SF	168,100
4015-027-033	250 N. Market St	Auto Service	44,000 SF	371,800
4015-027-038	240 N. Market St	Shopping Center	12,300 SF	140,712
4015-027-040	230 N. Market St	Store	22,194 SF	253,854
4015-027-041	224 N. Market St	Store	5,000 SF	57,200
4015-027-049	222 N. Market St	Shopping Center	25,500 SF	291,720
4015-027-050	210 N. Market St	Shopping Center	7,348 SF	84,084
4021-010-015	150 S. Market St	Store	16,575 SF	189,561
4021-024-015	500 E. Manchester Blvd	Supermarket	76,402 SF	2,950,570
4021-024-015	510 E. Manchester Blvd	Gas Station	202 SF	1,707
4021-036-049	401 S. Prairie Ave	Office	28,029 SF	392,126
4024-008-015	923 S. Prairie Ave	Store	9,744 SF	111,471
4024-009-005	945 S. Prairie Ave	Office	8,357 SF	116,914
4024-009-007	1003 S. Prairie Ave	Office	5,522 SF	77,253
4024-009-015	1011 S. Prairie Ave	Office	1,098 SF	15,361
4024-009-033	1035 S. Prairie Ave	Shopping Center	26,288 SF	300,048
4024-009-028	1035 S. Prairie Ave	Restaurant	3,954 SF	144,242
	—	Water Conveyance	—	605,070
Total				6,489,214

Table 2: No Build Alternative Natural Gas Demand identifies the annual natural gas demand of the existing uses that would remain operational under the No Build Alternative. As shown **Table 2**, the existing land uses under the No Build Alternative generate approximately 6,902,525 thousand British Thermal Units (kBTU) of natural gas per year.

**Table 2
No Build Alternative Natural Gas Demand**

Parcel No.	Property Address	Existing Use	Square Footage	Annual Demand (kBTU/yr)
4015-027-030	310 E. Florence Ave	Restaurant	1,200 SF	311,184
4015-027-031	300 E. Florence Ave	Restaurant	4,762 SF	1,234,360
4015-027-032	254 N. Market St	Restaurant	4,608 SF	1,194,950
4015-027-033	250 N. Market St	Auto Service	44,000 SF	919,600
4015-027-038	240 N. Market St	Shopping Center	12,300 SF	24,600
4015-027-040	230 N. Market St	Store	22,194 SF	44,380
4015-027-041	224 N. Market St	Store	5,000 SF	10,000
4015-027-049	222 N. Market St	Shopping Center	25,500 SF	51,000
4015-027-050	210 N. Market St	Shopping Center	7,348 SF	14,700
4021-010-015	150 S. Market St	Store	16,575 SF	33,140
4021-024-015	500 E. Manchester Blvd	Supermarket	76,402 SF	1,570,020
4021-024-015	510 E. Manchester Blvd	Gas Station	202 SF	4,222
4021-036-049	401 S. Prairie Ave	Office	28,029 SF	256,185
4024-008-015	923 S. Prairie Ave	Store	9,744 SF	19,488
4024-009-005	945 S. Prairie Ave	Office	8,357 SF	76,383
4024-009-007	1003 S. Prairie Ave	Office	5,522 SF	50,471
4024-009-015	1011 S. Prairie Ave	Office	1,098 SF	10,036
4024-009-033	1035 S. Prairie Ave	Shopping Center	26,288 SF	52,456
4024-009-028	1035 S. Prairie Ave	Restaurant	3,954 SF	1,025,350
Total				6,902,525

Electricity and natural gas demand of these existing uses is expected to remain the same under future year 2027 and future year 2045 conditions as the No Build Alternative assumes these uses would remain operational without implementation of the Project.

Build Alternative

Under normal operations, the required load flow for power of the Project would be divided between the two PDSs. The first PDS would be located on the MSF site. The second PDS would be located on the Prairie Avenue/Hardy Street station site. This includes operation of all interior and exterior lighting features included for the Project. Power requirements for each PDS are provided in **Table 3: Build Alternative Operation Flow**. As shown, the proposed MSF PDS is estimated to have a peak power load flow of 2,008 kW, and the Prairie Avenue/Hardy Street station PDS is estimated to have a peak power load flow of 2,119 kW for a total of 4,127 kW.³ The trains would operate for 18 hours per day which would generate a total electricity demand of 74,286 kWh per day or 27,114,390 kWh per year.⁴

Table 3
Build Alternative Operation Flow

PDS Site	Peak Power (KW)	RMS Power (KW)	Average Power (KW)	RMS Current (A)
MSF	2,008	834	755	1,067
Prairie Avenue/Hardy Street station	2,119	777	639	996

Source: Lea+Elliott, Inc. Inglewood Transit Connector EIR Operating Systems Conceptual Planning EIR Project Definition - August 2021. Table 9-2.

In the event the MSF PDS is unable to operate, the Prairie Avenue/Hardy Street station PDS is estimated to have a peak power load of 4,152 kW which would generate a total electricity demand of 74,736 kWh per day or 27,278,640 kWh per year. Similarly, in the event the Prairie Avenue/Hardy Street station PDS is unable to operate, the MSF PDS is estimated to have a peak power load of 4,353 kW which would generate a total electricity demand of 78,354 kWh per day or 28,599,210 kWh per year.

As shown in **Table 4: Build Alternative Electricity Demand**, the electricity demand for the Project during normal operation would result in a net increase of 20,625,176 kWh per year. In the event the MSF PDS is unable to operate, the electricity demand would result in a net increase of 20,789,426 kWh per year. In the event the Prairie Avenue/Hardy Street station PDS is unable to operate, the electricity demand would result in a net increase of 22,109,996 kWh per year. It is anticipated that the Project would have a similar electricity demand under opening year 2027 and future year 2045 conditions.

3 Lea+Elliott, Inc. Inglewood Transit Connector EIR Operating Systems Conceptual Planning EIR Project Definition - August 2021.

4 Lea+Elliott, Inc. Inglewood Transit Connector EIR Operating Systems Conceptual Planning EIR Project Definition - August 2021.

Table 4
Build Alternative Electricity Demand

Operation Scenario	Annual Electricity Usage (kWh/yr)		
	Project System ^a	Existing (No Build)	Net Increase
Normal Operation	27,114,390	6,489,214	20,625,176
Prairie Avenue/Hardy Street station PDS Only	27,278,640	6,489,214	20,789,426
MSF PDS Only	28,599,210	6,489,214	22,109,996

^a *Lea+Elliott, Inc. Inglewood Transit Connector EIR Operating Systems Conceptual Planning EIR Project Definition - August 2021.*

Southern California Edison (SCE) completed a high-level Distribution Study to determine the amount of load that SCE could accommodate and required infrastructure upgrades in order to meet the Project’s recommended full redundancy design.⁵ SCE’s analysis assumed the use of the existing single (nonredundant) 16 kva circuit currently available along Market Street as it may be the most likely used circuit for the proposed Project.

The results of SCE’s analysis found that:⁶

- The maximum load that can be accommodated at the present time is 10 MVA.
- To accommodate the 10 MVA load with full redundancy, the following upgrades would be required:
 - 1,500 feet of new civil work/duct banks,
 - 1,860 feet of new 1000 JCN cable,
 - 1,700 feet of upgrading/re-cabing the existing SCE primary cable to 1000 JCN, and
 - Two new gas switches.

SCE would complete the aforementioned upgrades and would be subject to its procedures and requirements for construction and environmental clearance. The Project would need to be reevaluated by SCE prior to coming online as the details are finalized.

Moreover, the Project would be designed in a manner that is consistent with relevant energy requirements, such as Title 24 and CALGreen, which are designed to encourage development that results in the efficient use of energy resources.

5 Lea+Elliott, Inc. Inglewood Transit Connector EIR Operating Systems Conceptual Planning EIR Project Definition - August 2021.

6 Lea+Elliott, Inc. Inglewood Transit Connector EIR Operating Systems Conceptual Planning EIR Project Definition - August 2021.

No new gas connections to serve the Project elements would be required except at the proposed MSF. Natural gas would be used at the MSF to serve the pressure wash system, and for space and water heating.

Table 5: Build Alternative Natural Gas Demand shows the operational natural gas estimates for the operation of the MSF and stations. As shown in **Table 5**, the MSF and stations would use approximately 2,340,800 kBTU of natural gas per year. However, compared to the No Build Alternative the Project would result in a net decrease of 4,561,725 kBTU of natural gas per year. It is anticipated that the Project would have a similar natural gas demand under opening year 2027 and future year 2045 conditions.

**Table 5
Build Alternative Natural Gas Demand**

Source	Units	Quantity
Stations	kBTU/yr	576,840
MSF	kBTU/yr	1,763,960
Total Project	kBTU/yr	2,340,800
<i>Existing (No Build Alternative)</i>	<i>kBTU/yr</i>	<i>6,902,525</i>
Net Total	kBTU/yr	(4,561,725)

Delta VMT Analysis

The Build Alternative would result in a net decrease of VMT compared to the No Build Alternative. Specifically, under opening year 2027 the Build Alternative would have a negative annual delta VMT of 2,089,417, and under future year 2045 the Build Alternative would have a negative annual delta VMT of 2,657,859. **Table 6: Delta VMT Transportation Fuel**, shows the annual petroleum consumption of the opening year 2027 and future year 2045 delta VMTs. As shown, the Build Alternative would result in a reduction of 78,951 gallons of petroleum during opening year 2027, and 84,985 gallons of petroleum during future year 2045.

**Table 6
Delta VMT Transportation Fuel**

Scenario	Annual VMT	Annual Fuel (gal)
Opening Year 2027	(2,089,417)	(78,951)
Future Year 2045	(2,657,859)	(84,985)



ATTACHMENT A:
Energy Modeling Data

No Build Alternative CalEEMod Data

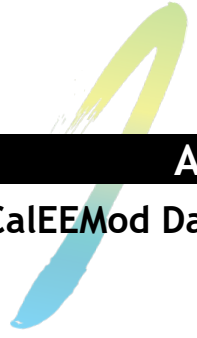


Table 1. Summary of Annual Electricity Use During Operation

Parcel	Address	Land Use	Units	Buildout
4015-027-030	310 E. Florence Ave	Restaurant	kWh/yr	43,776
4015-027-031	300 E. Florence Ave	Restaurant	kWh/yr	173,645
4015-027-032	254 N. Market St	Restaurant	kWh/yr	168,100
4015-027-033	250 N. Market St	Auto Service	kWh/yr	371,800
4015-027-038	240 N. Market St	Shopping Center	kWh/yr	140,712
4015-027-040	230 N. Market St	Store	kWh/yr	253,854
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4015-027-049	222 N. Market St	Shopping Center	kWh/yr	291,720
4015-027-050	210 N. Market St	Shopping Center	kWh/yr	84,084
4021-010-015	150 S. Market St	Store	kWh/yr	189,561
4021-024-015	500 E. Manchester Blvd	Supermarket	kWh/yr	2,950,570
4021-024-015	510 E. Manchester Blvd	Gas Station	kWh/yr	1,707
4021-036-049	401 S. Prairie Ave	Office	kWh/yr	392,126
4024-008-015	923 S. Prairie Ave	Store	kWh/yr	111,471
4024-009-005	945 S. Prairie Ave	Office	kWh/yr	116,914
4024-009-007	1003 S. Prairie Ave	Office	kWh/yr	77,253
4024-009-015	1011 S. Prairie Ave	Office	kWh/yr	15,361
4024-009-033	1035 S. Prairie Ave	Shopping Center	kWh/yr	300,048
4024-009-028	1035 S. Prairie Ave	Restaurant	kWh/yr	144,242
		Total Building	kWh/yr	5,884,144
		Water	kWh/yr	605,070
		Total Electricity	kWh/yr	6,489,214

Table 2. Summary of Annual Natural Gas Use During Operation

Parcel	Address	Land Use	Units	Buildout
4015-027-030	310 E. Florence Ave	Restaurant	kBTU/yr	311,184
4015-027-031	300 E. Florence Ave	Restaurant	kBTU/yr	1,234,360
4015-027-032	254 N. Market St	Restaurant	kBTU/yr	1,194,950
4015-027-033	250 N. Market St	Auto Service	kBTU/yr	919,600
4015-027-038	240 N. Market St	Shopping Center	kBTU/yr	24,600
4015-027-040	230 N. Market St	Store	kBTU/yr	44,380
4015-027-041	224 N. Market St	Store	kBTU/yr	10,000
4015-027-049	222 N. Market St	Shopping Center	kBTU/yr	51,000
4015-027-050	210 N. Market St	Shopping Center	kBTU/yr	14,700
4021-010-015	150 S. Market St	Store	kBTU/yr	33,140
4021-024-015	500 E. Manchester Blvd	Supermarket	kBTU/yr	1,570,020
4021-024-015	510 E. Manchester Blvd	Gas Station	kBTU/yr	4,222
4021-036-049	401 S. Prairie Ave	Office	kBTU/yr	256,185
4024-008-015	923 S. Prairie Ave	Store	kBTU/yr	19,488
4024-009-005	945 S. Prairie Ave	Office	kBTU/yr	76,383
4024-009-007	1003 S. Prairie Ave	Office	kBTU/yr	50,471
4024-009-015	1011 S. Prairie Ave	Office	kBTU/yr	10,036
4024-009-033	1035 S. Prairie Ave	Shopping Center	kBTU/yr	52,456
4024-009-028	1035 S. Prairie Ave	Restaurant	kBTU/yr	1,025,350
		Total Natural Gas	kBTU/yr	6,902,525

Table 3. Water by Land Use

Land Use	Units	Indoor/Outdoor Use	Indoor Use	Outdoor Use
Combined	Mgal	34.93877/13.51328	34.93877	13.51328

Water and Wastewater Electricity Intensity (kWh/gallon)

Supply Water	0.009727
Treat Water	0.000111
Distribute Water	0.001272
Wastewater Treatment	0.001911

Source: CalEEMod User's Guide, Appendix D, Table 9.2 Los Angeles County - Los Angeles-South Coast

Indoor Water Factor	0.013021 kWh/gallon (supply, treat, distribute, wastewater treatment)
Outdoor Water Factor	0.01111 kWh/gallon (supply, treat, and distribute)

Note: See No Build Alternative Annual CalEEMod sheet below. (Tables 5.2 and 5.3)

No Build 2027 - South Coast Air Basin, Annual

No Build 2027
South Coast Air Basin, Annual

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.00	1000sqft	0.47	0.00	0
General Office Building	8.36	1000sqft	0.34	8,357.00	0
General Office Building	5.52	1000sqft	0.47	5,522.00	0
General Office Building	1.10	1000sqft	0.31	1,098.00	0
General Office Building	28.03	1000sqft	1.08	28,029.00	0
High Turnover (Sit Down Restaurant)	1.20	1000sqft	0.28	1,200.00	0
High Turnover (Sit Down Restaurant)	4.76	1000sqft	0.34	4,760.00	0
High Turnover (Sit Down Restaurant)	4.61	1000sqft	0.25	4,608.00	0
High Turnover (Sit Down Restaurant)	3.95	1000sqft	0.26	3,954.00	0
Automobile Care Center	44.00	1000sqft	1.08	44,000.00	0
Free-Standing Discount Store	22.19	1000sqft	0.70	22,190.00	0
Free-Standing Discount Store	5.00	1000sqft	0.22	5,000.00	0
Free-Standing Discount Store	16.57	1000sqft	0.21	16,570.00	0
Free-Standing Discount Store	9.74	1000sqft	0.60	9,744.00	0
Gasoline/Service Station	6.00	Pump	0.02	202.00	0
Regional Shopping Center	12.30	1000sqft	0.55	12,300.00	0
Regional Shopping Center	25.50	1000sqft	0.59	25,500.00	0
Regional Shopping Center	7.35	1000sqft	0.26	7,350.00	0
Regional Shopping Center	26.23	1000sqft	1.71	26,228.00	0
Supermarket	76.40	1000sqft	5.93	76,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	381.4	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS milestone year emission factors

Land Use - ITC Daily Trip Generation

Construction Phase - Existing Condition, No Construction

Vehicle Trips - Using EMFAC for motor vehicle emissions

Energy Use -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	300.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblGrading	AcresOfGrading	0.00	75.00
tblLandUse	LandUseSquareFeet	1,100.00	1,098.00
tblLandUse	LandUseSquareFeet	28,030.00	28,029.00
tblLandUse	LandUseSquareFeet	5,520.00	5,522.00
tblLandUse	LandUseSquareFeet	8,360.00	8,357.00
tblLandUse	LandUseSquareFeet	3,950.00	3,954.00
tblLandUse	LandUseSquareFeet	4,610.00	4,608.00
tblLandUse	LandUseSquareFeet	9,740.00	9,744.00
tblLandUse	LandUseSquareFeet	847.05	202.00
tblLandUse	LandUseSquareFeet	26,230.00	26,228.00

tblLandUse	LotAcreage	0.00	0.47
tblLandUse	LotAcreage	0.03	0.31
tblLandUse	LotAcreage	0.64	1.08
tblLandUse	LotAcreage	0.13	0.47
tblLandUse	LotAcreage	0.19	0.34
tblLandUse	LotAcreage	0.03	0.28
tblLandUse	LotAcreage	0.09	0.26
tblLandUse	LotAcreage	0.11	0.25
tblLandUse	LotAcreage	0.11	0.34
tblLandUse	LotAcreage	1.01	1.08
tblLandUse	LotAcreage	0.38	0.21
tblLandUse	LotAcreage	0.51	0.70
tblLandUse	LotAcreage	0.11	0.22
tblLandUse	LotAcreage	0.22	0.60
tblLandUse	LotAcreage	0.28	0.55
tblLandUse	LotAcreage	0.60	1.71
tblLandUse	LotAcreage	0.17	0.26
tblLandUse	LotAcreage	1.75	5.93
tblProjectCharacteristics	CO2IntensityFactor	702.44	381.4
tblVehicleTrips	ST_TR	23.72	0.00
tblVehicleTrips	ST_TR	71.07	0.00
tblVehicleTrips	ST_TR	168.56	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	158.37	0.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	177.59	0.00
tblVehicleTrips	SU_TR	11.88	0.00
tblVehicleTrips	SU_TR	56.36	0.00
tblVehicleTrips	SU_TR	168.56	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	131.84	0.00
tblVehicleTrips	SU_TR	25.24	0.00

2020	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	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	1.2357	4.0000e-005	3.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
Energy	0.0372	0.3384	0.2842	2.0300e-003		0.0257	0.0257		0.0257	0.0257	0.0000	1,386.3023	1,386.3023	0.0845	0.0228	1,395.1984
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	227.3580	0.0000	227.3580	13.4365	0.0000	563.2698
Water						0.0000	0.0000		0.0000	0.0000	11.0845	104.6772	115.7617	1.1464	0.0285	152.9242
Total	1.2730	0.3384	0.2882	2.0300e-003	0.0000	0.0257	0.0257	0.0000	0.0257	0.0257	238.4425	1,490.9872	1,729.4297	14.6674	0.0513	2,111.4006

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
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Category	tons/yr										MT/yr							
	Area	Energy	Mobile	Waste	Water	Total	Area	Energy	Mobile	Waste	Water	Total	Area	Energy	Mobile	Waste	Water	Total
Area	1.2357	4.0000e-005	3.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003		
Energy	0.0372	0.3384	0.2842	2.0300e-003		0.0257	0.0257		0.0257	0.0257	0.0000	1,386.3023	1,386.3023	0.0845	0.0228	1,395.1984		
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	227.3580	0.0000	227.3580	13.4365	0.0000	563.2698		
Water						0.0000	0.0000		0.0000	0.0000	11.0845	104.6772	115.7617	1.1464	0.0285	152.9242		
Total	1.2730	0.3384	0.2882	2.0300e-003	0.0000	0.0257	0.0257	0.0000	0.0257	0.0257	238.4425	1,490.9872	1,729.4297	14.6674	0.0513	2,111.4006		

	ROG	NOx	CO	SO2	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	1/1/2019	12/31/2018	5	0	
2	Site Preparation	Site Preparation	1/29/2019	1/28/2019	5	0	
3	Grading	Grading	2/12/2019	2/11/2019	5	0	
4	Building Construction	Building Construction	3/26/2019	3/25/2019	5	0	
5	Paving	Paving	5/19/2020	5/18/2020	5	0	
6	Architectural Coating	Architectural Coating	6/16/2020	6/15/2020	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 454,518; Non-Residential Outdoor: 151,506; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	98.00	50.00	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	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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
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Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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	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	0.0000

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

3.6 Paving - 2020

Unmitigated Construction On-Site

Paving	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000

Mitigated Construction Off-Site

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

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

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	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	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	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Automobile Care Center	0.00	0.00	0.00		
Free-Standing Discount Store	0.00	0.00	0.00		
Free-Standing Discount Store	0.00	0.00	0.00		
Free-Standing Discount Store	0.00	0.00	0.00		
Free-Standing Discount Store	0.00	0.00	0.00		
Gasoline/Service Station	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00		

High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	
High Turnover (Sit Down Restaurant)	0.00	0.00	0.00	
Regional Shopping Center	0.00	0.00	0.00	
Regional Shopping Center	0.00	0.00	0.00	
Regional Shopping Center	0.00	0.00	0.00	
Regional Shopping Center	0.00	0.00	0.00	
Supermarket	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	16.60	8.40	6.90	33.00	48.00	19.00	21	51	28
Free-Standing Discount Store	16.60	8.40	6.90	12.20	68.80	19.00	47.5	35.5	17
Free-Standing Discount Store	16.60	8.40	6.90	12.20	68.80	19.00	47.5	35.5	17
Free-Standing Discount Store	16.60	8.40	6.90	12.20	68.80	19.00	47.5	35.5	17
Free-Standing Discount Store	16.60	8.40	6.90	12.20	68.80	19.00	47.5	35.5	17
Gasoline/Service Station	16.60	8.40	6.90	2.00	79.00	19.00	14	27	59
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11
Supermarket	16.60	8.40	6.90	6.50	74.50	19.00	34	30	36

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795
Free-Standing Discount Store	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795

Gasoline/Service Station	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795
General Office Building	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795
High Turnover (Sit Down Restaurant)	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795
Regional Shopping Center	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795
Supermarket	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795

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	1,017.9572	1,017.9572	0.0774	0.0160	1,024.6644
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,017.9572	1,017.9572	0.0774	0.0160	1,024.6644
NaturalGas Mitigated	0.0372	0.3384	0.2842	2.0300e-003		0.0257	0.0257		0.0257	0.0257	0.0000	368.3451	368.3451	7.0600e-003	6.7500e-003	370.5340
NaturalGas Unmitigated	0.0372	0.3384	0.2842	2.0300e-003		0.0257	0.0257		0.0257	0.0257	0.0000	368.3451	368.3451	7.0600e-003	6.7500e-003	370.5340

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					
Automobile Care Center	919600	4.9600e-003	0.0451	0.0379	2.7000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	49.0734	49.0734	9.4000e-004	9.0000e-004	49.3650

Free-Standing Discount Store	10000	5.0000e-005	4.9000e-004	4.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5336	0.5336	1.0000e-005	1.0000e-005	0.5368
Free-Standing Discount Store	19488	1.1000e-004	9.6000e-004	8.0000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0400	1.0400	2.0000e-005	2.0000e-005	1.0461
Free-Standing Discount Store	33140	1.8000e-004	1.6200e-003	1.3600e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7685	1.7685	3.0000e-005	3.0000e-005	1.7790
Free-Standing Discount Store	44380	2.4000e-004	2.1800e-003	1.8300e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.3683	2.3683	5.0000e-005	4.0000e-005	2.3824
Gasoline/Service Station	4221.8	2.0000e-005	2.1000e-004	1.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2253	0.2253	0.0000	0.0000	0.2266
General Office Building	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
General Office Building	10035.7	5.0000e-005	4.9000e-004	4.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5355	0.5355	1.0000e-005	1.0000e-005	0.5387
General Office Building	256185	1.3800e-003	0.0126	0.0106	8.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	13.6710	13.6710	2.6000e-004	2.5000e-004	13.7523
General Office Building	50471.1	2.7000e-004	2.4700e-003	2.0800e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.6933	2.6933	5.0000e-005	5.0000e-005	2.7093
General Office Building	76383	4.1000e-004	3.7400e-003	3.1500e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	4.0761	4.0761	8.0000e-005	7.0000e-005	4.1003
High Turnover (Sit Down Restaurant)	1.02535e+006	5.5300e-003	0.0503	0.0422	3.0000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	54.7167	54.7167	1.0500e-003	1.0000e-003	55.0418
High Turnover (Sit Down Restaurant)	1.19495e+006	6.4400e-003	0.0586	0.0492	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	63.7669	63.7669	1.2200e-003	1.1700e-003	64.1458
High Turnover (Sit Down Restaurant)	1.23436e+006	6.6600e-003	0.0605	0.0508	3.6000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	65.8703	65.8703	1.2600e-003	1.2100e-003	66.2618
High Turnover (Sit Down Restaurant)	311184	1.6800e-003	0.0153	0.0128	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.6060	16.6060	3.2000e-004	3.0000e-004	16.7046
Regional Shopping Center	14700	8.0000e-005	7.2000e-004	6.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7845	0.7845	2.0000e-005	1.0000e-005	0.7891
Regional Shopping Center	24600	1.3000e-004	1.2100e-003	1.0100e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3128	1.3128	3.0000e-005	2.0000e-005	1.3206
Regional Shopping Center	51000	2.8000e-004	2.5000e-003	2.1000e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7216	2.7216	5.0000e-005	5.0000e-005	2.7377
Regional Shopping Center	52456	2.8000e-004	2.5700e-003	2.1600e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.7993	2.7993	5.0000e-005	5.0000e-005	2.8159
Supermarket	1.57002e+006	8.4700e-003	0.0770	0.0647	4.6000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	83.7823	83.7823	1.6100e-003	1.5400e-003	84.2801
Total		0.0372	0.3384	0.2842	2.0100e-003		0.0257	0.0257		0.0257	0.0257	0.0000	368.3451	368.3451	7.0600e-003	6.7300e-003	370.5340

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					
Automobile Care Center	919600	4.9600e-003	0.0451	0.0379	2.7000e-004		3.4300e-003	3.4300e-003		3.4300e-003	3.4300e-003	0.0000	49.0734	49.0734	9.4000e-004	9.0000e-004	49.3650
Free-Standing Discount Store	10000	5.0000e-005	4.9000e-004	4.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5336	0.5336	1.0000e-005	1.0000e-005	0.5368
Free-Standing Discount Store	19488	1.1000e-004	9.6000e-004	8.0000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.0400	1.0400	2.0000e-005	2.0000e-005	1.0461
Free-Standing Discount Store	33140	1.8000e-004	1.6200e-003	1.3600e-003	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.7685	1.7685	3.0000e-005	3.0000e-005	1.7790
Free-Standing Discount Store	44380	2.4000e-004	2.1800e-003	1.8300e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.3683	2.3683	5.0000e-005	4.0000e-005	2.3824
Gasoline/Service Station	4221.8	2.0000e-005	2.1000e-004	1.7000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2253	0.2253	0.0000	0.0000	0.2266
General Office Building	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
General Office Building	10035.7	5.0000e-005	4.9000e-004	4.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5355	0.5355	1.0000e-005	1.0000e-005	0.5387
General Office Building	256185	1.3800e-003	0.0126	0.0106	8.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	13.6710	13.6710	2.6000e-004	2.5000e-004	13.7523
General Office Building	50471.1	2.7000e-004	2.4700e-003	2.0800e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.6933	2.6933	5.0000e-005	5.0000e-005	2.7093
General Office Building	76383	4.1000e-004	3.7400e-003	3.1500e-003	2.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	4.0761	4.0761	8.0000e-005	7.0000e-005	4.1003
High Turnover (Sit Down Restaurant)	1.02535e+006	5.5300e-003	0.0503	0.0422	3.0000e-004		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.0000	54.7167	54.7167	1.0500e-003	1.0000e-003	55.0418
High Turnover (Sit Down Restaurant)	1.19495e+006	6.4400e-003	0.0586	0.0492	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	63.7669	63.7669	1.2200e-003	1.1700e-003	64.1458
High Turnover (Sit Down Restaurant)	1.23436e+006	6.6600e-003	0.0605	0.0508	3.6000e-004		4.6000e-003	4.6000e-003		4.6000e-003	4.6000e-003	0.0000	65.8703	65.8703	1.2600e-003	1.2100e-003	66.2618
High Turnover (Sit Down Restaurant)	311184	1.6800e-003	0.0153	0.0128	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.6060	16.6060	3.2000e-004	3.0000e-004	16.7046
Regional Shopping Center	14700	8.0000e-005	7.2000e-004	6.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7845	0.7845	2.0000e-005	1.0000e-005	0.7891
Regional Shopping Center	24600	1.3000e-004	1.2100e-003	1.0100e-003	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.3128	1.3128	3.0000e-005	2.0000e-005	1.3206
Regional Shopping Center	51000	2.8000e-004	2.5000e-003	2.1000e-003	1.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7216	2.7216	5.0000e-005	5.0000e-005	2.7377
Regional Shopping Center	52456	2.8000e-004	2.5700e-003	2.1600e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.7993	2.7993	5.0000e-005	5.0000e-005	2.8159
Supermarket	1.57002e+006	8.4700e-003	0.0770	0.0647	4.6000e-004		5.8500e-003	5.8500e-003		5.8500e-003	5.8500e-003	0.0000	83.7823	83.7823	1.6100e-003	1.5400e-003	84.2801
Total		0.0372	0.3384	0.2842	2.0100e-003		0.0257	0.0257		0.0257	0.0257	0.0000	368.3451	368.3451	7.0600e-003	6.7300e-003	370.5340

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	371800	64.3215	4.8900e-003	1.0100e-003	64.7453
Free-Standing Discount Store	111471	19.2846	1.4700e-003	3.0000e-004	19.4116
Free-Standing Discount Store	189561	32.7940	2.4900e-003	5.2000e-004	33.0101
Free-Standing Discount Store	253854	43.9167	3.3400e-003	6.9000e-004	44.2061
Free-Standing Discount Store	57200	9.8956	7.5000e-004	1.6000e-004	9.9608
Gasoline/Service Station	1706.9	0.2953	2.0000e-005	0.0000	0.2972
General Office Building	0	0.0000	0.0000	0.0000	0.0000
General Office Building	116914	20.2262	1.5400e-003	3.2000e-004	20.3595
General Office Building	15361	2.6575	2.0000e-004	4.0000e-005	2.6750
General Office Building	392126	67.8378	5.1600e-003	1.0700e-003	68.2848
General Office Building	77252.8	13.3647	1.0200e-003	2.1000e-004	13.4528
High Turnover (Sit Down Restaurant)	144242	24.9539	1.9000e-003	3.9000e-004	25.1183
High Turnover (Sit Down Restaurant)	168100	29.0813	2.2100e-003	4.6000e-004	29.2729
High Turnover (Sit Down Restaurant)	173645	30.0406	2.2800e-003	4.7000e-004	30.2385
High Turnover (Sit Down Restaurant)	43776	7.5733	5.8000e-004	1.2000e-004	7.6232
Regional Shopping Center	140712	24.3432	1.8500e-003	3.8000e-004	24.5036
Regional Shopping Center	291720	50.4676	3.8400e-003	7.9000e-004	50.8001
Regional Shopping Center	300048	51.9084	3.9500e-003	8.2000e-004	52.2504

Regional Shopping Center	84084	14.5465	1.1100e-003	2.3000e-004	14.6424
Supermarket	2.95057e+006	510.4487	0.0388	8.0300e-003	513.8119
Total		1,017.9572	0.0774	0.0160	1,024.6644

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	371800	64.3215	4.8900e-003	1.0100e-003	64.7453
Free-Standing Discount Store	111471	19.2846	1.4700e-003	3.0000e-004	19.4116
Free-Standing Discount Store	189561	32.7940	2.4900e-003	5.2000e-004	33.0101
Free-Standing Discount Store	253854	43.9167	3.3400e-003	6.9000e-004	44.2061
Free-Standing Discount Store	57200	9.8956	7.5000e-004	1.6000e-004	9.9608
Gasoline/Service Station	1706.9	0.2953	2.0000e-005	0.0000	0.2972
General Office Building	0	0.0000	0.0000	0.0000	0.0000
General Office Building	116914	20.2262	1.5400e-003	3.2000e-004	20.3595
General Office Building	15361	2.6575	2.0000e-004	4.0000e-005	2.6750
General Office Building	392126	67.8378	5.1600e-003	1.0700e-003	68.2848
General Office Building	77252.8	13.3647	1.0200e-003	2.1000e-004	13.4528
High Turnover (Sit Down Restaurant)	144242	24.9539	1.9000e-003	3.9000e-004	25.1183
High Turnover (Sit Down Restaurant)	168100	29.0813	2.2100e-003	4.6000e-004	29.2729
High Turnover (Sit Down Restaurant)	173645	30.0406	2.2800e-003	4.7000e-004	30.2385
High Turnover (Sit Down Restaurant)	43776	7.5733	5.8000e-004	1.2000e-004	7.6232

Regional Shopping Center	140712	24.3432	1.8500e-003	3.8000e-004	24.5036
Regional Shopping Center	291720	50.4676	3.8400e-003	7.9000e-004	50.8001
Regional Shopping Center	300048	51.9084	3.9500e-003	8.2000e-004	52.2504
Regional Shopping Center	84084	14.5465	1.1100e-003	2.3000e-004	14.6424
Supermarket	2.95057e+006	510.4487	0.0388	8.0300e-003	513.8119
Total		1,017.9572	0.0774	0.0160	1,024.6644

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.2357	4.0000e-005	3.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
Unmitigated	1.2357	4.0000e-005	3.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003

6.2 Area by SubCategory

Unmitigated

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

Architectural Coating	0.1405					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0949					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-004	4.0000e-005	3.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
Total	1.2357	4.0000e-005	3.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1405					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0949					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.6000e-004	4.0000e-005	3.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003
Total	1.2357	4.0000e-005	3.9300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	7.6600e-003	7.6600e-003	2.0000e-005	0.0000	8.1600e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	115.7617	1.1464	0.0285	152.9242
Unmitigated	115.7617	1.1464	0.0285	152.9242

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	4.13957 / 2.53716	15.5147	0.1360	3.4100e-003	19.9296
Free-Standing Discount Store	3.96288 / 2.42886	14.8525	0.1302	3.2600e-003	19.0790
Gasoline/Service Station	0.0796913 / 0.0489424	0.2987	2.6200e-003	7.0000e-005	0.3837
General Office Building	7.64433 / 4.68523	28.6502	0.2511	6.2900e-003	36.8030
High Turnover (Sit Down Restaurant)	4.40731 / 0.281318	11.8670	0.1444	3.5600e-003	16.5368
Regional Shopping Center	5.2873 / 3.2406	19.8163	0.1737	4.3500e-003	25.4553
Supermarket	9.41769 / 0.291269	24.7623	0.3085	7.5900e-003	34.7369
Total		115.7617	1.1464	0.0285	152.9242

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	4.13957 / 2.53716	15.5147	0.1360	3.4100e-003	19.9296
Free-Standing Discount Store	3.96288 / 2.42886	14.8525	0.1302	3.2600e-003	19.0790
Gasoline/Service Station	0.0796913 / 0.0489424	0.2987	2.6200e-003	7.0000e-005	0.3837

General Office Building	7.64433 / 4.68523	28.6502	0.2511	6.2900e-003	36.8030
High Turnover (Sit Down Restaurant)	4.40731 / 0.281318	11.8670	0.1444	3.5600e-003	16.5368
Regional Shopping Center	5.2873 / 3.2406	19.8163	0.1737	4.3500e-003	25.4553
Supermarket	9.41769 / 0.291269	24.7623	0.3085	7.5900e-003	34.7369
Total		115.7617	1.1464	0.0285	152.9242

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	227.3580	13.4365	0.0000	563.2698
Unmitigated	227.3580	13.4365	0.0000	563.2698

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	168.08	34.1187	2.0164	0.0000	84.5277

Free-Standing Discount Store	230.09	46.7062	2.7603	0.0000	115.7126
Gasoline/Service Station	3.23	0.6557	0.0388	0.0000	1.6244
General Office Building	40	8.1196	0.4799	0.0000	20.1161
High Turnover (Sit Down Restaurant)	172.79	35.0748	2.0729	0.0000	86.8964
Regional Shopping Center	74.95	15.2142	0.8991	0.0000	37.6925
Supermarket	430.9	87.4688	5.1693	0.0000	216.7003
Total		227.3580	13.4365	0.0000	563.2698

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	168.08	34.1187	2.0164	0.0000	84.5277
Free-Standing Discount Store	230.09	46.7062	2.7603	0.0000	115.7126
Gasoline/Service Station	3.23	0.6557	0.0388	0.0000	1.6244
General Office Building	40	8.1196	0.4799	0.0000	20.1161
High Turnover (Sit Down Restaurant)	172.79	35.0748	2.0729	0.0000	86.8964
Regional Shopping Center	74.95	15.2142	0.8991	0.0000	37.6925
Supermarket	430.9	87.4688	5.1693	0.0000	216.7003
Total		227.3580	13.4365	0.0000	563.2698

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



A.2

MSF/Station CalEEMod Data

MSF and Stations - South Coast Air Basin, Annual

**MSF and Stations
South Coast Air Basin, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	84.40	1000sqft	1.94	84,400.00	0
Parking Lot	300.00	Space	2.70	120,000.00	0
Arena	27.60	1000sqft	8.87	27,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	381.4	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - SCE RPS Milestone Years Emission Factors

Land Use -

Construction Phase - No Construction

Grading -

Vehicle Trips - Using EMFAC for motor vehicle emissions

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	300.00	0.00

tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	702.44	381.4
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	6.97	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2025	0.0000	0.0000	0.0000	0.0000	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
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Year	tons/yr										MT/yr					
2024	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2025	0.0000	0.0000	0.0000	0.0000	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)
		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	0.4665	5.0000e-005	5.2400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0109
Energy	0.0126	0.1148	0.0964	6.9000e-004		8.7200e-003	8.7200e-003		8.7200e-003	8.7200e-003	0.0000	295.9073	295.9073	0.0154	4.9800e-003	297.7763
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	21.3993	0.0000	21.3993	1.2647	0.0000	53.0159
Water						0.0000	0.0000		0.0000	0.0000	9.9639	72.2066	82.1705	1.0289	0.0253	115.4320
Total	0.4792	0.1148	0.1016	6.9000e-004	0.0000	8.7400e-003	8.7400e-003	0.0000	8.7400e-003	8.7400e-003	31.3632	368.1241	399.4873	2.3090	0.0303	466.2350

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4665	5.0000e-005	5.2400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0109
Energy	0.0126	0.1148	0.0964	6.9000e-004		8.7200e-003	8.7200e-003		8.7200e-003	8.7200e-003	0.0000	295.9073	295.9073	0.0154	4.9800e-003	297.7763
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	21.3993	0.0000	21.3993	1.2647	0.0000	53.0159
Water						0.0000	0.0000		0.0000	0.0000	9.9639	72.2066	82.1705	1.0289	0.0253	115.4320
Total	0.4792	0.1148	0.1016	6.9000e-004	0.0000	8.7400e-003	8.7400e-003	0.0000	8.7400e-003	8.7400e-003	31.3632	368.1241	399.4873	2.3090	0.0303	466.2350

	ROG	NOx	CO	SO2	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	4/6/2024	4/5/2024	5	0	
2	Site Preparation	Site Preparation	5/4/2024	5/3/2024	5	0	
3	Grading	Grading	5/18/2024	5/17/2024	5	0	
4	Building Construction	Building Construction	6/29/2024	6/28/2024	5	0	
5	Paving	Paving	8/23/2025	8/22/2025	5	0	
6	Architectural Coating	Architectural Coating	9/20/2025	9/19/2025	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.7

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 168,000; Non-Residential Outdoor: 56,000; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	97.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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

3.3 Site Preparation - 2024

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					

Mitigated Construction Off-Site

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

3.4 Grading - 2024

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

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

3.5 Building Construction - 2024

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	0.0000	0.0000	0.0000	0.0000	0.0000	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	0.0000

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

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

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
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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
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Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

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
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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
General Light Industry	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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795
General Light Industry	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795
Parking Lot	0.554363	0.042016	0.205738	0.112776	0.013530	0.005792	0.022072	0.033617	0.002147	0.001579	0.004858	0.000716	0.000795

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	170.9933	170.9933	0.0130	2.6900e-003	172.1200
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	170.9933	170.9933	0.0130	2.6900e-003	172.1200
NaturalGas Mitigated	0.0126	0.1148	0.0964	6.9000e-004		8.7200e-003	8.7200e-003		8.7200e-003	8.7200e-003	0.0000	124.9140	124.9140	2.3900e-003	2.2900e-003	125.6563
NaturalGas Unmitigated	0.0126	0.1148	0.0964	6.9000e-004		8.7200e-003	8.7200e-003		8.7200e-003	8.7200e-003	0.0000	124.9140	124.9140	2.3900e-003	2.2900e-003	125.6563

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					
Arena	576840	3.1100e-003	0.0283	0.0238	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.7824	30.7824	5.9000e-004	5.6000e-004	30.9653
General Light Industry	1.76396e+006	9.5100e-003	0.0865	0.0726	5.2000e-004		6.5700e-003	6.5700e-003		6.5700e-003	6.5700e-003	0.0000	94.1316	94.1316	1.8000e-003	1.7300e-003	94.6910
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		0.0126	0.1148	0.0964	6.9000e-004		8.7200e-003	8.7200e-003		8.7200e-003	8.7200e-003	0.0000	124.9140	124.9140	2.3900e-003	2.2900e-003	125.6563

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					
Arena	576840	3.1100e-003	0.0283	0.0238	1.7000e-004		2.1500e-003	2.1500e-003		2.1500e-003	2.1500e-003	0.0000	30.7824	30.7824	5.9000e-004	5.6000e-004	30.9653
General Light Industry	1.76396e+006	9.5100e-003	0.0865	0.0726	5.2000e-004		6.5700e-003	6.5700e-003		6.5700e-003	6.5700e-003	0.0000	94.1316	94.1316	1.8000e-003	1.7300e-003	94.6910
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		0.0126	0.1148	0.0964	6.9000e-004		8.7200e-003	8.7200e-003		8.7200e-003	8.7200e-003	0.0000	124.9140	124.9140	2.3900e-003	2.2900e-003	125.6563

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	233220	40.3471	3.0700e-003	6.3000e-004	40.6129
General Light Industry	713180	123.3802	9.3800e-003	1.9400e-003	124.1932
Parking Lot	42000	7.2660	5.5000e-004	1.1000e-004	7.3139
Total		170.9933	0.0130	2.6800e-003	172.1200

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

Landscaping	4.8000e-004	5.0000e-005	5.2400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0109
Total	0.4665	5.0000e-005	5.2400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0109

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	0.0536					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4125					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8000e-004	5.0000e-005	5.2400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0109
Total	0.4665	5.0000e-005	5.2400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0102	0.0102	3.0000e-005	0.0000	0.0109

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	82.1705	1.0289	0.0253	115.4320
Unmitigated	82.1705	1.0289	0.0253	115.4320

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	11.8893 / 0.758889	32.0127	0.3896	9.5900e-003	44.6100
General Light Industry	19.5175 / 0	50.1578	0.6393	0.0157	70.8220
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		82.1705	1.0289	0.0253	115.4320

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	11.8893 / 0.758889	32.0127	0.3896	9.5900e-003	44.6100
General Light Industry	19.5175 / 0	50.1578	0.6393	0.0157	70.8220
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		82.1705	1.0289	0.0253	115.4320

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.3993	1.2647	0.0000	53.0159
Unmitigated	21.3993	1.2647	0.0000	53.0159

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.76	0.1543	9.1200e-003	0.0000	0.3822
General Light Industry	104.66	21.2450	1.2556	0.0000	52.6337
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		21.3993	1.2647	0.0000	53.0159

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0.76	0.1543	9.1200e-003	0.0000	0.3822

General Light Industry	104.66	21.2450	1.2556	0.0000	52.6337
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		21.3993	1.2647	0.0000	53.0159

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

Table 1. On road Vehicles - Operational

Scenario	Annual Delta Auto VMT	Fuel Consumption (gal)		
		Gasoline	Diesel	Total
2027 - Upper Bound	2,089,417	66,035	12,916	78,951
2027 - Lower Bound	1,817,895	57,454	11,238	68,691
2045 - Upper Bound	2,657,859	68,724	16,261	84,985
2045 - Lower Bound	2,370,409	61,291	14,502	75,794

Table 2. Fuel Consumption Summary

Fuel	Fuel Efficiency (MPG)	%Fleet
2027		
Gasoline	29.3	92.7%
Diesel	11.8	7.3%
2045		
Gasoline	35.3	91.2%
Diesel	14.4	8.8%

Notes:

Percent fleet based on VMT from EMFAC2017 as shown in **Table 3: EMFAC2017 Emissions Inventory-2027** and **Table 4: EMFAC2017 Emissions Inventory-2045**

Fuel	VMT (miles/day)	Fuel Consumption (1,000 gal/day)	Fuel Efficiency (miles per gallon)	Fuel Percentage
GAS	264,748,609	9,026	29.3	92.7
DSL	20,873,654	1,768	11.8	7.3

Note: Fuel percentage based on VMT.
Fuel efficiency calculated using fuel consumption and VMT from EMFAC2017.

Buildout

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: County
Region: Los Angeles
Calendar Year: 2027
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption
Los Angeles	2027	All Other Buses	Aggregate	Aggregate	Diesel	2928.244068	167576.9571	24597.25	14.7973053
Los Angeles	2027	LDA	Aggregate	Aggregate	Diesel	43926.40393	1647186.855	209900.89	30.7690067
Los Angeles	2027	LDT1	Aggregate	Aggregate	Diesel	157.5329145	4132.542246	600.29929	0.17228995
Los Angeles	2027	LDT2	Aggregate	Aggregate	Diesel	12880.90116	489461.2734	62495.517	12.4038234
Los Angeles	2027	LHD1	Aggregate	Aggregate	Diesel	88693.71017	3446903.904	1115655.3	146.479145
Los Angeles	2027	LHD2	Aggregate	Aggregate	Diesel	36069.05587	1345321.508	453703.35	63.5652524
Los Angeles	2027	MDV	Aggregate	Aggregate	Diesel	28018.63463	1002209.516	135639.73	32.7902275
Los Angeles	2027	MH	Aggregate	Aggregate	Diesel	7558.730539	74485.73928	755.87305	6.59375641
Los Angeles	2027	Motor Coach	Aggregate	Aggregate	Diesel	815.0350008	101259.3468	11899.511	14.1446557
Los Angeles	2027	PTO	Aggregate	Aggregate	Diesel	0	83177.05696	0	15.3791889
Los Angeles	2027	SBUS	Aggregate	Aggregate	Diesel	3961.780955	125049.8475	45718.403	15.4690675
Los Angeles	2027	T6 Ag	Aggregate	Aggregate	Diesel	12.80803027	76.04848299	56.355333	0.0089321
Los Angeles	2027	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	399.8150613	73169.63868	5837.2999	5.51250084
Los Angeles	2027	T6 CAIRP small	Aggregate	Aggregate	Diesel	217.4341274	10383.60688	3174.5383	0.85893491
Los Angeles	2027	T6 instate construc	Aggregate	Aggregate	Diesel	2805.963386	172269.173	12685.651	15.5267658
Los Angeles	2027	T6 instate construc	Aggregate	Aggregate	Diesel	8893.994696	457807.4054	40209.404	40.0232623
Los Angeles	2027	T6 instate heavy	Aggregate	Aggregate	Diesel	13558.56657	1659628.925	156463.98	134.955194
Los Angeles	2027	T6 instate small	Aggregate	Aggregate	Diesel	45851.4524	2228055.361	529119.4	193.175001
Los Angeles	2027	T6 OOS heavy	Aggregate	Aggregate	Diesel	232.005763	42522.76631	3387.2841	3.20217566
Los Angeles	2027	T6 OOS small	Aggregate	Aggregate	Diesel	124.2755728	5894.702082	1814.4234	0.48839981
Los Angeles	2027	T6 Public	Aggregate	Aggregate	Diesel	4742.273034	74835.9516	14384.895	8.3364888
Los Angeles	2027	T6 utility	Aggregate	Aggregate	Diesel	1075.386059	17847.1615	12366.94	1.65920808
Los Angeles	2027	T7 Ag	Aggregate	Aggregate	Diesel	6.793627775	32.27187042	29.891962	0.0066579
Los Angeles	2027	T7 CAIRP	Aggregate	Aggregate	Diesel	6501.532728	1233922.367	94922.378	155.613679
Los Angeles	2027	T7 CAIRP construct	Aggregate	Aggregate	Diesel	674.9933869	123742.4435	3051.6189	14.970158
Los Angeles	2027	T7 NNOOS	Aggregate	Aggregate	Diesel	8125.03718	1504133.084	118625.54	179.711216
Los Angeles	2027	T7 NOOS	Aggregate	Aggregate	Diesel	2595.754953	484835.4985	37898.022	62.8678512
Los Angeles	2027	T7 POLA	Aggregate	Aggregate	Diesel	9060.174019	1393177.777	68857.323	209.183853
Los Angeles	2027	T7 Public	Aggregate	Aggregate	Diesel	5783.385005	117156.5609	17542.934	18.4789506
Los Angeles	2027	T7 Single	Aggregate	Aggregate	Diesel	6210.69905	418896.2846	71670.606	57.7928074
Los Angeles	2027	T7 single construct	Aggregate	Aggregate	Diesel	4366.645518	306982.2422	19741.435	40.992324
Los Angeles	2027	T7 SWCV	Aggregate	Aggregate	Diesel	851.7693875	34800.76198	3321.9006	17.0867189
Los Angeles	2027	T7 tractor	Aggregate	Aggregate	Diesel	14740.21047	1764105.562	187200.67	219.038874
Los Angeles	2027	T7 tractor construc	Aggregate	Aggregate	Diesel	3710.08679	253233.3229	16773.158	34.1148848
Los Angeles	2027	T7 utility	Aggregate	Aggregate	Diesel	425.7725794	8628.501907	4896.3847	1.29252889
Los Angeles	2027	UBUS	Aggregate	Aggregate	Diesel	6.0834	752.2395132	24.3336	0.13285609
Los Angeles	2027	LDA	Aggregate	Aggregate	Electr	156692.9782	6494528.454	775045.32	0
Los Angeles	2027	LDT1	Aggregate	Aggregate	Electr	10028.68742	424838.4054	49944.046	0
Los Angeles	2027	LDT2	Aggregate	Aggregate	Electr	36594.60321	1072242.053	182269.91	0
Los Angeles	2027	MDV	Aggregate	Aggregate	Electr	24125.49043	722432.2277	121042.14	0
Los Angeles	2027	UBUS	Aggregate	Aggregate	Electr	14	1217.553685	56	0
Los Angeles	2027	LDA	Aggregate	Aggregate	Gasol	4223903.069	151386059.1	19906567	4387.6562
Los Angeles	2027	LDT1	Aggregate	Aggregate	Gasol	534686.017	18729354.47	2479690.7	635.573682
Los Angeles	2027	LDT2	Aggregate	Aggregate	Gasol	1527540.238	54451687.08	7175585.7	1902.24203
Los Angeles	2027	LHD1	Aggregate	Aggregate	Gasol	107370.4487	3768343.983	1599659.7	336.619342
Los Angeles	2027	LHD2	Aggregate	Aggregate	Gasol	18797.7819	636178.05	280058.94	65.3402817
Los Angeles	2027	MCY	Aggregate	Aggregate	Gasol	212627.4399	1390471.504	425254.88	39.2117013
Los Angeles	2027	MDV	Aggregate	Aggregate	Gasol	992199.3086	33081966.49	4616781	1426.4688
Los Angeles	2027	MH	Aggregate	Aggregate	Gasol	19738.69056	198271.6713	1974.6586	35.6149274
Los Angeles	2027	OBUS	Aggregate	Aggregate	Gasol	4000.848101	153044.7019	80048.969	28.2938613
Los Angeles	2027	SBUS	Aggregate	Aggregate	Gasol	1906.968068	73318.54378	7627.8723	7.55522219
Los Angeles	2027	T6TS	Aggregate	Aggregate	Gasol	15466.59149	838476.4302	309455.56	152.980505
Los Angeles	2027	T7IS	Aggregate	Aggregate	Gasol	51.9437895	6864.60704	1039.2913	1.48478922
Los Angeles	2027	UBUS	Aggregate	Aggregate	Gasol	477.7813025	34572.05517	1911.1252	7.10374471
Los Angeles	2027	T7 SWCV	Aggregate	Aggregate	Natur	3441.521412	140215.5625	13421.934	57.6325098
Los Angeles	2027	UBUS	Aggregate	Aggregate	Natur	4333.221624	460233.9391	17332.886	117.099046

	VMT Sum	Fuel Sum	Fuel Sum/Year
Diesel	20873654.2	1767.593943	645,171,789
Gas	264748608.7	9026.14509	3,294,542,958
			3,939,714,747

Fuel	VMT (miles/day)	Fuel Consumption (1,000 gal/day)	Fuel Efficiency (miles per gallon)	Fuel Percentage
GAS	270,481,007	7,669	35.3	91.2
DSL	26,050,423	1,811	14.4	8.8

Note: Fuel percentage based on VMT.
 Fuel efficiency calculated using fuel consumption and VMT from EMFAC2017.

Buildout

Source: EMFAC2017 (v1.0.3) Emissions Inventory
 Region Type: County
 Region: Los Angeles
 Calendar Year: 2045
 Season: Annual
 Vehicle Classification: EMFAC2011 Categories
 Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption
Los Angeles	2045	All Other Buses	Aggregate	Aggregate	Diesel	4160.446695	217622.7163	34947.752	17.1112367
Los Angeles	2045	LDA	Aggregate	Aggregate	Diesel	58620.54216	1871522.657	276646.85	30.4461662
Los Angeles	2045	LDT1	Aggregate	Aggregate	Diesel	99.01748743	2948.130769	449.65056	0.09306953
Los Angeles	2045	LDT2	Aggregate	Aggregate	Diesel	18888.93099	592209.7663	88558.648	12.8189248
Los Angeles	2045	LHD1	Aggregate	Aggregate	Diesel	143747.3637	4419777.453	1808161	166.071204
Los Angeles	2045	LHD2	Aggregate	Aggregate	Diesel	58478.77848	1731691.395	735589.47	72.3826014
Los Angeles	2045	MDV	Aggregate	Aggregate	Diesel	42211.98811	1247535.498	196887.72	34.8459151
Los Angeles	2045	MH	Aggregate	Aggregate	Diesel	11462.39772	91376.82184	1146.2398	7.12686895
Los Angeles	2045	Motor Coach	Aggregate	Aggregate	Diesel	985.931923	123212.6205	14394.606	14.6194559
Los Angeles	2045	PTO	Aggregate	Aggregate	Diesel	0	96559.54668	0	14.5151294
Los Angeles	2045	SBUS	Aggregate	Aggregate	Diesel	4551.398088	144413.8002	52522.503	13.8175228
Los Angeles	2045	T6 Ag	Aggregate	Aggregate	Diesel	5.488105617	4.523188915	24.147665	0.00083426
Los Angeles	2045	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	545.8363808	89064.85254	7969.2112	5.83351066
Los Angeles	2045	T6 CAIRP small	Aggregate	Aggregate	Diesel	301.5507018	12674.06432	4402.6402	0.93088368
Los Angeles	2045	T6 instate construc	Aggregate	Aggregate	Diesel	2307.374395	154488.997	10431.55	12.1478781
Los Angeles	2045	T6 instate construc	Aggregate	Aggregate	Diesel	8410.459373	415909.0141	38023.36	30.8719481
Los Angeles	2045	T6 instate heavy	Aggregate	Aggregate	Diesel	21369.45158	2132030.517	246600.51	147.752507
Los Angeles	2045	T6 instate small	Aggregate	Aggregate	Diesel	62538.96006	2799610.732	721690.93	208.014273
Los Angeles	2045	T6 OOS heavy	Aggregate	Aggregate	Diesel	315.4744926	51828.14664	4605.9276	3.39348449
Los Angeles	2045	T6 OOS small	Aggregate	Aggregate	Diesel	173.5312419	7187.232024	2533.5561	0.52904548
Los Angeles	2045	T6 Public	Aggregate	Aggregate	Diesel	5594.801474	86866.578	16970.898	7.93605794
Los Angeles	2045	T6 utility	Aggregate	Aggregate	Diesel	1208.402646	20134.26458	13896.63	1.61731244
Los Angeles	2045	T7 CAIRP	Aggregate	Aggregate	Diesel	7211.501205	1500409.665	105287.92	148.602327
Los Angeles	2045	T7 CAIRP construct	Aggregate	Aggregate	Diesel	635.4569327	110970.7885	2872.8761	11.2500083
Los Angeles	2045	T7 NNOOS	Aggregate	Aggregate	Diesel	11226.27016	1828916.252	163903.54	191.055854
Los Angeles	2045	T7 NOOS	Aggregate	Aggregate	Diesel	2865.834749	589562.0706	41841.187	59.8004655
Los Angeles	2045	T7 POLA	Aggregate	Aggregate	Diesel	12028.61716	2507404.939	91417.49	274.452297
Los Angeles	2045	T7 Public	Aggregate	Aggregate	Diesel	6562.655557	132956.4921	19906.722	15.8905217
Los Angeles	2045	T7 Single	Aggregate	Aggregate	Diesel	6089.311924	486293.1777	70269.815	53.9743069
Los Angeles	2045	T7 single constructi	Aggregate	Aggregate	Diesel	3609.153513	275298.1155	16316.843	29.9352598
Los Angeles	2045	T7 SWCV	Aggregate	Aggregate	Diesel	98.00302906	4002.963247	382.21181	1.83646651
Los Angeles	2045	T7 tractor	Aggregate	Aggregate	Diesel	16613.44806	2069084.855	210990.79	196.113434
Los Angeles	2045	T7 tractor construc	Aggregate	Aggregate	Diesel	3059.37014	227096.7078	13831.293	24.2397542
Los Angeles	2045	T7 utility	Aggregate	Aggregate	Diesel	481.2637037	9757.956806	5534.5326	1.10323878
Los Angeles	2045	UBUS	Aggregate	Aggregate	Diesel	0	0	0	0
Los Angeles	2045	LDA	Aggregate	Aggregate	Electr	310027.7052	10073972.23	1469713.1	0
Los Angeles	2045	LDT1	Aggregate	Aggregate	Electr	26549.24356	825890.5826	124055.08	0
Los Angeles	2045	LDT2	Aggregate	Aggregate	Electr	84454.45584	1869730.253	398476.59	0
Los Angeles	2045	MDV	Aggregate	Aggregate	Electr	62154.10603	1367053.685	292578.12	0
Los Angeles	2045	LDA	Aggregate	Aggregate	Gasoli	4751020.081	150405108.3	22333884	3673.21739
Los Angeles	2045	LDT1	Aggregate	Aggregate	Gasoli	688085.8398	20759661.39	3158780.6	588.690603
Los Angeles	2045	LDT2	Aggregate	Aggregate	Gasoli	1843259.518	57318729.87	8590032.6	1606.41169
Los Angeles	2045	LHD1	Aggregate	Aggregate	Gasoli	121193.9758	3810879.099	1805609.7	296.87249
Los Angeles	2045	LHD2	Aggregate	Aggregate	Gasoli	22324.8176	672125.3068	332606.52	60.1296775
Los Angeles	2045	MCY	Aggregate	Aggregate	Gasoli	295582.3083	1523709.895	591164.62	43.7533169
Los Angeles	2045	MDV	Aggregate	Aggregate	Gasoli	1182417.529	34574043.71	5466805.9	1182.57773
Los Angeles	2045	MH	Aggregate	Aggregate	Gasoli	23767.40038	209666.0345	2377.6907	32.8323914
Los Angeles	2045	OBUS	Aggregate	Aggregate	Gasoli	4282.060074	145896.4647	85675.458	23.218056
Los Angeles	2045	SBUS	Aggregate	Aggregate	Gasoli	3270.931289	111935.2572	13083.725	10.0198137
Los Angeles	2045	T6TS	Aggregate	Aggregate	Gasoli	18881.31426	902721.2629	377777.34	142.413548
Los Angeles	2045	T7IS	Aggregate	Aggregate	Gasoli	73.41229088	8391.910547	1468.8331	1.53007778
Los Angeles	2045	UBUS	Aggregate	Aggregate	Gasoli	527.5566572	38138.55255	2110.2266	6.97617863
Los Angeles	2045	T7 SWCV	Aggregate	Aggregate	Natur	5137.471294	209465.5453	20036.138	71.458606
Los Angeles	2045	UBUS	Aggregate	Aggregate	Natur	4802.397532	509885.2599	19209.59	129.642675

	VMT Sum	Fuel Sum	Fuel Sum/Year
Diesel	26050423.31	1811.129763	661,062,364
Gas	270481007	7668.642963	2,799,054,682
			3,460,117,045

Existing Conditions Energy Calculations

Table 1. Summary of Annual Electricity Use During Operation

Electricity				
Parcel	Address	Land Use	Units	Buildout
4015-027-030	310 E. Florence Ave	Restaurant	kWh/yr	43,776
4015-027-031	300 E. Florence Ave	Restaurant	kWh/yr	173,645
4015-027-032	254 N. Market St	Restaurant	kWh/yr	168,100
4015-027-033	250 N. Market St	Auto Service	kWh/yr	371,800
4015-027-038	240 N. Market St	Shopping Center	kWh/yr	140,712
4015-027-040	230 N. Market St	Store	kWh/yr	253,854
4015-027-041	224 N. Market St	Store	kWh/yr	57,200
4015-027-049	222 N. Market St	Shopping Center	kWh/yr	291,720
4015-027-050	210 N. Market St	Shopping Center	kWh/yr	84,084
4021-010-015	150 S. Market St	Store	kWh/yr	189,561
4021-024-015	500 E. Manchester Blvd	Supermarket	kWh/yr	2,950,570
4021-024-015	510 E. Manchester Blvd	Gas Station	kWh/yr	1,707
4021-036-049	401 S. Prairie Ave	Office	kWh/yr	392,126
4024-008-015	923 S. Prairie Ave	Store	kWh/yr	111,471
4024-009-005	945 S. Prairie Ave	Office	kWh/yr	116,914
4024-009-007	1003 S. Prairie Ave	Office	kWh/yr	77,253
4024-009-015	1011 S. Prairie Ave	Office	kWh/yr	15,361
4024-009-033	1035 S. Prairie Ave	Shopping Center	kWh/yr	300,048
4024-009-028	1035 S. Prairie Ave	Restaurant	kWh/yr	144,242
		Total Building	kWh/yr	5,884,144
		Water	kWh/yr	605,070
		Total Electricity	kWh/yr	6,489,214

Table 2. Summary of Annual Natural Gas Use During Operation

Natural Gas				
Parcel	Address	Land Use	Units	Buildout
4015-027-030	310 E. Florence Ave	Restaurant	kBTU/yr	311,184
4015-027-031	300 E. Florence Ave	Restaurant	kBTU/yr	1,234,360
4015-027-032	254 N. Market St	Restaurant	kBTU/yr	1,194,950
4015-027-033	250 N. Market St	Auto Service	kBTU/yr	919,600
4015-027-038	240 N. Market St	Shopping Center	kBTU/yr	24,600
4015-027-040	230 N. Market St	Store	kBTU/yr	44,380
4015-027-041	224 N. Market St	Store	kBTU/yr	10,000
4015-027-049	222 N. Market St	Shopping Center	kBTU/yr	51,000
4015-027-050	210 N. Market St	Shopping Center	kBTU/yr	14,700
4021-010-015	150 S. Market St	Store	kBTU/yr	33,140
4021-024-015	500 E. Manchester Blvd	Supermarket	kBTU/yr	1,570,020
4021-024-015	510 E. Manchester Blvd	Gas Station	kBTU/yr	4,222
4021-036-049	401 S. Prairie Ave	Office	kBTU/yr	256,185
4024-008-015	923 S. Prairie Ave	Store	kBTU/yr	19,488
4024-009-005	945 S. Prairie Ave	Office	kBTU/yr	76,383
4024-009-007	1003 S. Prairie Ave	Office	kBTU/yr	50,471
4024-009-015	1011 S. Prairie Ave	Office	kBTU/yr	10,036
4024-009-033	1035 S. Prairie Ave	Shopping Center	kBTU/yr	52,456
4024-009-028	1035 S. Prairie Ave	Restaurant	kBTU/yr	1,025,350
		Total Natural Gas	kBTU/yr	6,902,525

Table 3. Water by Land Use

"Regulatory Compliance"

Land Use	Units	Adjusted Baseline		
		Indoor/Outdoor Use	Indoor Use	Outdoor Use
Combined	Mgal	34.93877/13.51328	34.93877	13.51328

Water and Wastewater Electricity Intensity (kWh/gallon)

Supply Water	0.009727
Treat Water	0.000111
Distribute Water	0.001272
Wastewater Treatment	0.001911

Source: CalEEMod User's Guide, Appendix D, Table 9.2 Los Angeles County - Los Angeles-South Coast

Indoor Water Factor	0.013021 kWh/gallon (supply, treat, distribute, wastewater treatment)
Outdoor Water Factor	0.01111 kWh/gallon (supply, treat, and distribute)

Notes:

See **Appendix 4.2.1** : Air Quality and Health Risk Assessment Technical Report for the Inglewood Transit Connector Project, for CalEEMod output sheets. Electricity and Natural Gas for the uses is total operational usage. Electricity, natural gas, and mobile usage was calculated from CalEEMod. Indoor water factor used for entire Project Site for conservative analysis.

Electricity Calculations for Project Construction

Table 1. Water Usage for Control of Fugitive Dust During Construction

Phase Name	Acres	Gallons for Project	Electricity (kWh)
ITC Construction	17.8	9,783,592	95,165.0

Construction Schedule

182 days for Phase 1

Water Usage

3,020 gallons per acre per day

Source: Air & Waste Management Association, Air Pollution Engineering Manual, 1992 Edition

Supply Water Electricity Intensity

0.009727 kWh/gallons (CalEEMod default for South Coast Air Basin)

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	5.00	1000sqft	0.11	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Trailer usage only.

Off-road Equipment - Trailer usage only.

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.03	0.03
tblFleetMix	LDA	0.55	0.55
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.21	0.20

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tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.2530e-003	6.1960e-003
tblFleetMix	MCY	5.2170e-003	5.1420e-003
tblFleetMix	MDV	0.12	0.12
tblFleetMix	MH	8.5000e-004	8.7600e-004
tblFleetMix	MHD	0.02	0.02
tblFleetMix	OBUS	2.5600e-003	2.5150e-003
tblFleetMix	SBUS	6.9600e-004	6.8700e-004
tblFleetMix	UBUS	2.0710e-003	2.2010e-003
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblVehicleEF	HHD	0.47	0.62
tblVehicleEF	HHD	0.09	0.09
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	1.60	2.47
tblVehicleEF	HHD	1.08	1.15
tblVehicleEF	HHD	3.29	3.30
tblVehicleEF	HHD	4,415.48	4,690.45
tblVehicleEF	HHD	1,567.39	1,639.83
tblVehicleEF	HHD	10.70	10.54
tblVehicleEF	HHD	13.98	20.39
tblVehicleEF	HHD	2.11	3.81

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tblVehicleEF	HHD	19.48	19.54
tblVehicleEF	HHD	8.9530e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2770e-003	0.02
tblVehicleEF	HHD	9.2000e-005	8.7000e-005
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8420e-003	8.8380e-003
tblVehicleEF	HHD	6.0050e-003	0.01
tblVehicleEF	HHD	8.5000e-005	8.0000e-005
tblVehicleEF	HHD	9.9000e-005	1.0500e-004
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tblVehicleEF	HHD	7.6000e-005	7.9000e-005
tblVehicleEF	HHD	0.09	0.15
tblVehicleEF	HHD	3.5500e-004	3.9500e-004
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.02
tblVehicleEF	HHD	1.6100e-004	1.6000e-004
tblVehicleEF	HHD	9.9000e-005	1.0500e-004
tblVehicleEF	HHD	4.3090e-003	4.6110e-003
tblVehicleEF	HHD	0.48	0.72
tblVehicleEF	HHD	7.6000e-005	7.9000e-005
tblVehicleEF	HHD	0.20	0.25
tblVehicleEF	HHD	3.5500e-004	3.9500e-004

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tblVehicleEF	HHD	0.08	0.09
tblVehicleEF	HHD	0.44	0.58
tblVehicleEF	HHD	0.09	0.10
tblVehicleEF	HHD	0.06	0.07
tblVehicleEF	HHD	1.17	1.80
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tblVehicleEF	HHD	1,567.39	1,639.83
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tblVehicleEF	HHD	14.43	21.04
tblVehicleEF	HHD	2.00	3.60
tblVehicleEF	HHD	19.47	19.53
tblVehicleEF	HHD	7.5480e-003	0.01
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	6.2770e-003	0.02
tblVehicleEF	HHD	9.2000e-005	8.7000e-005
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tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8420e-003	8.8380e-003
tblVehicleEF	HHD	6.0050e-003	0.01
tblVehicleEF	HHD	8.5000e-005	8.0000e-005
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tblVehicleEF	HHD	0.38	0.58
tblVehicleEF	HHD	1.0700e-004	1.1400e-004

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tblVehicleEF	HHD	0.09	0.15
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tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	HHD	6.0050e-003	0.01
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tblVehicleEF	HHD	0.04	0.04
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tblVehicleEF	LDA	0.05	0.06
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tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.05	0.06
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tblVehicleEF	LDA	5.4100e-004	5.8700e-004
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.09	0.11
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.05	0.07
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tblVehicleEF	LDA	0.98	1.19

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tblVehicleEF	LDA	249.59	269.66
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tblVehicleEF	LDA	0.10	0.11
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.06	0.07
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tblVehicleEF	LDA	0.10	0.11
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tblVehicleEF	LDA	0.02	0.02
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.06	0.08
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	1.40	1.68
tblVehicleEF	LDT1	2.25	2.78
tblVehicleEF	LDT1	322.00	341.15

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tblVehicleEF	LDT1	65.45	69.44
tblVehicleEF	LDT1	0.13	0.16
tblVehicleEF	LDT1	0.13	0.16
tblVehicleEF	LDT1	3.2340e-003	3.5390e-003
tblVehicleEF	LDT1	3.1500e-003	3.4320e-003
tblVehicleEF	LDT1	2.9770e-003	3.2590e-003
tblVehicleEF	LDT1	2.8970e-003	3.1560e-003
tblVehicleEF	LDT1	0.11	0.13
tblVehicleEF	LDT1	0.23	0.26
tblVehicleEF	LDT1	0.09	0.11
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.15	0.19
tblVehicleEF	LDT1	3.2370e-003	3.4330e-003
tblVehicleEF	LDT1	6.9400e-004	7.4300e-004
tblVehicleEF	LDT1	0.11	0.13
tblVehicleEF	LDT1	0.23	0.26
tblVehicleEF	LDT1	0.09	0.11
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.16	0.17
tblVehicleEF	LDT1	0.16	0.21
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	9.8770e-003	0.01
tblVehicleEF	LDT1	1.52	1.82
tblVehicleEF	LDT1	1.91	2.36
tblVehicleEF	LDT1	336.08	356.02
tblVehicleEF	LDT1	65.45	69.44

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tblVehicleEF	LDT1	0.11	0.14
tblVehicleEF	LDT1	0.12	0.15
tblVehicleEF	LDT1	3.2340e-003	3.5390e-003
tblVehicleEF	LDT1	3.1500e-003	3.4320e-003
tblVehicleEF	LDT1	2.9770e-003	3.2590e-003
tblVehicleEF	LDT1	2.8970e-003	3.1560e-003
tblVehicleEF	LDT1	0.17	0.20
tblVehicleEF	LDT1	0.24	0.28
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.14	0.16
tblVehicleEF	LDT1	0.13	0.17
tblVehicleEF	LDT1	3.3800e-003	3.5840e-003
tblVehicleEF	LDT1	6.8800e-004	7.3600e-004
tblVehicleEF	LDT1	0.17	0.20
tblVehicleEF	LDT1	0.24	0.28
tblVehicleEF	LDT1	0.13	0.15
tblVehicleEF	LDT1	0.05	0.06
tblVehicleEF	LDT1	0.14	0.16
tblVehicleEF	LDT1	0.15	0.18
tblVehicleEF	LDT1	0.01	0.02
tblVehicleEF	LDT1	0.01	0.01
tblVehicleEF	LDT1	1.36	1.63
tblVehicleEF	LDT1	2.32	2.87
tblVehicleEF	LDT1	316.82	335.69
tblVehicleEF	LDT1	65.45	69.44
tblVehicleEF	LDT1	0.13	0.15

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tblVehicleEF	LDT1	0.13	0.16
tblVehicleEF	LDT1	3.2340e-003	3.5390e-003
tblVehicleEF	LDT1	3.1500e-003	3.4320e-003
tblVehicleEF	LDT1	2.9770e-003	3.2590e-003
tblVehicleEF	LDT1	2.8970e-003	3.1560e-003
tblVehicleEF	LDT1	0.11	0.13
tblVehicleEF	LDT1	0.26	0.30
tblVehicleEF	LDT1	0.09	0.10
tblVehicleEF	LDT1	0.03	0.04
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.15	0.20
tblVehicleEF	LDT1	3.1850e-003	3.3780e-003
tblVehicleEF	LDT1	6.9500e-004	7.4500e-004
tblVehicleEF	LDT1	0.11	0.13
tblVehicleEF	LDT1	0.26	0.30
tblVehicleEF	LDT1	0.09	0.10
tblVehicleEF	LDT1	0.04	0.06
tblVehicleEF	LDT1	0.18	0.20
tblVehicleEF	LDT1	0.17	0.21
tblVehicleEF	LDT2	6.1600e-003	7.2180e-003
tblVehicleEF	LDT2	5.0900e-003	6.3970e-003
tblVehicleEF	LDT2	0.76	0.84
tblVehicleEF	LDT2	1.14	1.35
tblVehicleEF	LDT2	357.41	381.91
tblVehicleEF	LDT2	72.80	78.07
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.08	0.11

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tblVehicleEF	LDT2	2.1810e-003	2.1510e-003
tblVehicleEF	LDT2	2.3970e-003	2.3580e-003
tblVehicleEF	LDT2	2.0060e-003	1.9790e-003
tblVehicleEF	LDT2	2.2040e-003	2.1690e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	3.5800e-003	3.8260e-003
tblVehicleEF	LDT2	7.4700e-004	8.0300e-004
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.04	0.05
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.08	0.09
tblVehicleEF	LDT2	6.5370e-003	7.6530e-003
tblVehicleEF	LDT2	4.5360e-003	5.6920e-003
tblVehicleEF	LDT2	0.83	0.92
tblVehicleEF	LDT2	0.98	1.15
tblVehicleEF	LDT2	373.41	399.04
tblVehicleEF	LDT2	72.80	78.07
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LDT2	2.1810e-003	2.1510e-003

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tblVehicleEF	LDT2	2.3970e-003	2.3580e-003
tblVehicleEF	LDT2	2.0060e-003	1.9790e-003
tblVehicleEF	LDT2	2.2040e-003	2.1690e-003
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.06	0.08
tblVehicleEF	LDT2	3.7410e-003	3.9980e-003
tblVehicleEF	LDT2	7.4400e-004	8.0000e-004
tblVehicleEF	LDT2	0.06	0.07
tblVehicleEF	LDT2	0.09	0.10
tblVehicleEF	LDT2	0.06	0.06
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.05	0.06
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	6.0370e-003	7.0750e-003
tblVehicleEF	LDT2	5.2090e-003	6.5470e-003
tblVehicleEF	LDT2	0.73	0.81
tblVehicleEF	LDT2	1.18	1.39
tblVehicleEF	LDT2	351.53	375.62
tblVehicleEF	LDT2	72.80	78.07
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.08	0.11
tblVehicleEF	LDT2	2.1810e-003	2.1510e-003
tblVehicleEF	LDT2	2.3970e-003	2.3580e-003

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tblVehicleEF	LDT2	2.0060e-003	1.9790e-003
tblVehicleEF	LDT2	2.2040e-003	2.1690e-003
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	3.5210e-003	3.7630e-003
tblVehicleEF	LDT2	7.4800e-004	8.0400e-004
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.10	0.11
tblVehicleEF	LDT2	0.04	0.04
tblVehicleEF	LDT2	0.02	0.03
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.08	0.10
tblVehicleEF	LHD1	4.9880e-003	5.5970e-003
tblVehicleEF	LHD1	9.2560e-003	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.15
tblVehicleEF	LHD1	0.66	0.84
tblVehicleEF	LHD1	2.37	2.79
tblVehicleEF	LHD1	8.95	8.92
tblVehicleEF	LHD1	588.36	603.81
tblVehicleEF	LHD1	31.02	33.34
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.78	0.95

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tblVehicleEF	LHD1	0.89	1.01
tblVehicleEF	LHD1	8.3700e-004	8.2600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5610e-003	9.1270e-003
tblVehicleEF	LHD1	8.8500e-004	1.0140e-003
tblVehicleEF	LHD1	8.0100e-004	7.9000e-004
tblVehicleEF	LHD1	2.5540e-003	2.5160e-003
tblVehicleEF	LHD1	8.1660e-003	8.7050e-003
tblVehicleEF	LHD1	8.1400e-004	9.3300e-004
tblVehicleEF	LHD1	2.7900e-003	3.1460e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7340e-003	1.9140e-003
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.29	0.31
tblVehicleEF	LHD1	0.22	0.27
tblVehicleEF	LHD1	8.9000e-005	9.0000e-005
tblVehicleEF	LHD1	5.7670e-003	5.9300e-003
tblVehicleEF	LHD1	3.5400e-004	3.8500e-004
tblVehicleEF	LHD1	2.7900e-003	3.1460e-003
tblVehicleEF	LHD1	0.10	0.10
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7340e-003	1.9140e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.29	0.31
tblVehicleEF	LHD1	0.24	0.29
tblVehicleEF	LHD1	4.9880e-003	5.5970e-003

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tblVehicleEF	LHD1	9.4510e-003	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.15
tblVehicleEF	LHD1	0.67	0.85
tblVehicleEF	LHD1	2.26	2.66
tblVehicleEF	LHD1	8.95	8.92
tblVehicleEF	LHD1	588.36	603.81
tblVehicleEF	LHD1	31.02	33.34
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.73	0.89
tblVehicleEF	LHD1	0.85	0.96
tblVehicleEF	LHD1	8.3700e-004	8.2600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5610e-003	9.1270e-003
tblVehicleEF	LHD1	8.8500e-004	1.0140e-003
tblVehicleEF	LHD1	8.0100e-004	7.9000e-004
tblVehicleEF	LHD1	2.5540e-003	2.5160e-003
tblVehicleEF	LHD1	8.1660e-003	8.7050e-003
tblVehicleEF	LHD1	8.1400e-004	9.3300e-004
tblVehicleEF	LHD1	4.1640e-003	4.7100e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4160e-003	2.6900e-003
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.28	0.30
tblVehicleEF	LHD1	0.21	0.26
tblVehicleEF	LHD1	8.9000e-005	9.0000e-005

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tblVehicleEF	LHD1	5.7670e-003	5.9310e-003
tblVehicleEF	LHD1	3.5200e-004	3.8300e-004
tblVehicleEF	LHD1	4.1640e-003	4.7100e-003
tblVehicleEF	LHD1	0.10	0.11
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	2.4160e-003	2.6900e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.28	0.30
tblVehicleEF	LHD1	0.23	0.28
tblVehicleEF	LHD1	4.9880e-003	5.5970e-003
tblVehicleEF	LHD1	9.2060e-003	0.01
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	0.14	0.15
tblVehicleEF	LHD1	0.66	0.83
tblVehicleEF	LHD1	2.39	2.81
tblVehicleEF	LHD1	8.95	8.92
tblVehicleEF	LHD1	588.36	603.81
tblVehicleEF	LHD1	31.02	33.34
tblVehicleEF	LHD1	0.07	0.07
tblVehicleEF	LHD1	0.76	0.94
tblVehicleEF	LHD1	0.89	1.01
tblVehicleEF	LHD1	8.3700e-004	8.2600e-004
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.5610e-003	9.1270e-003
tblVehicleEF	LHD1	8.8500e-004	1.0140e-003
tblVehicleEF	LHD1	8.0100e-004	7.9000e-004
tblVehicleEF	LHD1	2.5540e-003	2.5160e-003

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tblVehicleEF	LHD1	8.1660e-003	8.7050e-003
tblVehicleEF	LHD1	8.1400e-004	9.3300e-004
tblVehicleEF	LHD1	2.9050e-003	3.3080e-003
tblVehicleEF	LHD1	0.11	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7020e-003	1.8850e-003
tblVehicleEF	LHD1	0.06	0.06
tblVehicleEF	LHD1	0.31	0.33
tblVehicleEF	LHD1	0.22	0.27
tblVehicleEF	LHD1	8.9000e-005	9.0000e-005
tblVehicleEF	LHD1	5.7670e-003	5.9300e-003
tblVehicleEF	LHD1	3.5400e-004	3.8600e-004
tblVehicleEF	LHD1	2.9050e-003	3.3080e-003
tblVehicleEF	LHD1	0.11	0.12
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7020e-003	1.8850e-003
tblVehicleEF	LHD1	0.07	0.08
tblVehicleEF	LHD1	0.31	0.33
tblVehicleEF	LHD1	0.24	0.29
tblVehicleEF	LHD2	3.5180e-003	4.0020e-003
tblVehicleEF	LHD2	3.4110e-003	4.2980e-003
tblVehicleEF	LHD2	6.5620e-003	8.5190e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.28	0.34
tblVehicleEF	LHD2	1.17	1.37
tblVehicleEF	LHD2	13.57	13.57
tblVehicleEF	LHD2	605.98	617.83

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tblVehicleEF	LHD2	26.15	27.88
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.46	0.65
tblVehicleEF	LHD2	0.46	0.55
tblVehicleEF	LHD2	1.1260e-003	1.1620e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.0770e-003	8.8510e-003
tblVehicleEF	LHD2	4.2100e-004	4.6900e-004
tblVehicleEF	LHD2	1.0770e-003	1.1110e-003
tblVehicleEF	LHD2	2.6710e-003	2.6540e-003
tblVehicleEF	LHD2	7.7140e-003	8.4540e-003
tblVehicleEF	LHD2	3.8700e-004	4.3100e-004
tblVehicleEF	LHD2	9.3900e-004	1.1380e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.4000e-004	7.4500e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.07	0.08
tblVehicleEF	LHD2	0.09	0.11
tblVehicleEF	LHD2	5.9000e-003	6.0210e-003
tblVehicleEF	LHD2	2.8200e-004	3.0400e-004
tblVehicleEF	LHD2	9.3900e-004	1.1380e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.4000e-004	7.4500e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.07	0.08

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tblVehicleEF	LHD2	0.10	0.13
tblVehicleEF	LHD2	3.5180e-003	4.0020e-003
tblVehicleEF	LHD2	3.4510e-003	4.3570e-003
tblVehicleEF	LHD2	6.3490e-003	8.2260e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.28	0.35
tblVehicleEF	LHD2	1.12	1.31
tblVehicleEF	LHD2	13.57	13.57
tblVehicleEF	LHD2	605.98	617.83
tblVehicleEF	LHD2	26.15	27.88
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.44	0.61
tblVehicleEF	LHD2	0.44	0.53
tblVehicleEF	LHD2	1.1260e-003	1.1620e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.0770e-003	8.8510e-003
tblVehicleEF	LHD2	4.2100e-004	4.6900e-004
tblVehicleEF	LHD2	1.0770e-003	1.1110e-003
tblVehicleEF	LHD2	2.6710e-003	2.6540e-003
tblVehicleEF	LHD2	7.7140e-003	8.4540e-003
tblVehicleEF	LHD2	3.8700e-004	4.3100e-004
tblVehicleEF	LHD2	1.3970e-003	1.6960e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.8800e-004	1.0400e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.06	0.08

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tblVehicleEF	LHD2	0.09	0.11
tblVehicleEF	LHD2	5.9000e-003	6.0210e-003
tblVehicleEF	LHD2	2.8100e-004	3.0300e-004
tblVehicleEF	LHD2	1.3970e-003	1.6960e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	8.8800e-004	1.0400e-003
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.06	0.08
tblVehicleEF	LHD2	0.09	0.12
tblVehicleEF	LHD2	3.5180e-003	4.0020e-003
tblVehicleEF	LHD2	3.4000e-003	4.2820e-003
tblVehicleEF	LHD2	6.6050e-003	8.5780e-003
tblVehicleEF	LHD2	0.13	0.13
tblVehicleEF	LHD2	0.28	0.34
tblVehicleEF	LHD2	1.18	1.38
tblVehicleEF	LHD2	13.57	13.57
tblVehicleEF	LHD2	605.98	617.83
tblVehicleEF	LHD2	26.15	27.88
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.46	0.64
tblVehicleEF	LHD2	0.46	0.56
tblVehicleEF	LHD2	1.1260e-003	1.1620e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	8.0770e-003	8.8510e-003
tblVehicleEF	LHD2	4.2100e-004	4.6900e-004
tblVehicleEF	LHD2	1.0770e-003	1.1110e-003

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tblVehicleEF	LHD2	2.6710e-003	2.6540e-003
tblVehicleEF	LHD2	7.7140e-003	8.4540e-003
tblVehicleEF	LHD2	3.8700e-004	4.3100e-004
tblVehicleEF	LHD2	9.4200e-004	1.1610e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	6.1900e-004	7.2300e-004
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.09	0.12
tblVehicleEF	LHD2	5.9000e-003	6.0210e-003
tblVehicleEF	LHD2	2.8200e-004	3.0400e-004
tblVehicleEF	LHD2	9.4200e-004	1.1610e-003
tblVehicleEF	LHD2	0.03	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.1900e-004	7.2300e-004
tblVehicleEF	LHD2	0.05	0.05
tblVehicleEF	LHD2	0.07	0.09
tblVehicleEF	LHD2	0.10	0.13
tblVehicleEF	MCY	0.55	0.54
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	18.62	18.94
tblVehicleEF	MCY	9.70	9.66
tblVehicleEF	MCY	190.93	188.92
tblVehicleEF	MCY	43.78	44.52
tblVehicleEF	MCY	1.13	1.13
tblVehicleEF	MCY	0.31	0.31

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tblVehicleEF	MCY	2.5350e-003	2.4360e-003
tblVehicleEF	MCY	3.5080e-003	3.8630e-003
tblVehicleEF	MCY	2.3660e-003	2.2770e-003
tblVehicleEF	MCY	3.2930e-003	3.6360e-003
tblVehicleEF	MCY	1.05	1.06
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	2.60	2.60
tblVehicleEF	MCY	0.56	0.60
tblVehicleEF	MCY	2.03	2.05
tblVehicleEF	MCY	2.2930e-003	2.2780e-003
tblVehicleEF	MCY	6.5600e-004	6.6300e-004
tblVehicleEF	MCY	1.05	1.06
tblVehicleEF	MCY	0.61	0.63
tblVehicleEF	MCY	0.64	0.65
tblVehicleEF	MCY	3.25	3.23
tblVehicleEF	MCY	0.56	0.60
tblVehicleEF	MCY	2.21	2.23
tblVehicleEF	MCY	0.54	0.53
tblVehicleEF	MCY	0.13	0.13
tblVehicleEF	MCY	17.96	18.24
tblVehicleEF	MCY	8.84	8.82
tblVehicleEF	MCY	190.93	188.92
tblVehicleEF	MCY	43.78	44.52
tblVehicleEF	MCY	0.99	0.99
tblVehicleEF	MCY	0.29	0.29
tblVehicleEF	MCY	2.5350e-003	2.4360e-003

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tblVehicleEF	MCY	3.5080e-003	3.8630e-003
tblVehicleEF	MCY	2.3660e-003	2.2770e-003
tblVehicleEF	MCY	3.2930e-003	3.6360e-003
tblVehicleEF	MCY	1.71	1.73
tblVehicleEF	MCY	0.67	0.70
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	2.54	2.54
tblVehicleEF	MCY	0.53	0.56
tblVehicleEF	MCY	1.81	1.83
tblVehicleEF	MCY	2.2810e-003	2.2650e-003
tblVehicleEF	MCY	6.3500e-004	6.4300e-004
tblVehicleEF	MCY	1.71	1.73
tblVehicleEF	MCY	0.67	0.70
tblVehicleEF	MCY	1.05	1.07
tblVehicleEF	MCY	3.18	3.16
tblVehicleEF	MCY	0.53	0.56
tblVehicleEF	MCY	1.97	1.99
tblVehicleEF	MCY	0.55	0.54
tblVehicleEF	MCY	0.15	0.15
tblVehicleEF	MCY	18.72	19.04
tblVehicleEF	MCY	9.85	9.80
tblVehicleEF	MCY	190.93	188.92
tblVehicleEF	MCY	43.78	44.52
tblVehicleEF	MCY	1.11	1.11
tblVehicleEF	MCY	0.31	0.31
tblVehicleEF	MCY	2.5350e-003	2.4360e-003
tblVehicleEF	MCY	3.5080e-003	3.8630e-003

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tblVehicleEF	MCY	2.3660e-003	2.2770e-003
tblVehicleEF	MCY	3.2930e-003	3.6360e-003
tblVehicleEF	MCY	1.15	1.16
tblVehicleEF	MCY	0.78	0.82
tblVehicleEF	MCY	0.61	0.62
tblVehicleEF	MCY	2.61	2.61
tblVehicleEF	MCY	0.65	0.69
tblVehicleEF	MCY	2.07	2.09
tblVehicleEF	MCY	2.2950e-003	2.2800e-003
tblVehicleEF	MCY	6.5900e-004	6.6700e-004
tblVehicleEF	MCY	1.15	1.16
tblVehicleEF	MCY	0.78	0.82
tblVehicleEF	MCY	0.61	0.62
tblVehicleEF	MCY	3.26	3.25
tblVehicleEF	MCY	0.65	0.69
tblVehicleEF	MCY	2.25	2.28
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	1.10	1.33
tblVehicleEF	MDV	1.99	2.48
tblVehicleEF	MDV	481.40	512.22
tblVehicleEF	MDV	96.60	103.14
tblVehicleEF	MDV	0.12	0.15
tblVehicleEF	MDV	0.17	0.22
tblVehicleEF	MDV	2.2730e-003	2.3560e-003
tblVehicleEF	MDV	2.4250e-003	2.5140e-003
tblVehicleEF	MDV	2.0940e-003	2.1720e-003

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tblVehicleEF	MDV	2.2300e-003	2.3120e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.15
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.15	0.19
tblVehicleEF	MDV	4.8190e-003	5.1310e-003
tblVehicleEF	MDV	1.0000e-003	1.0750e-003
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.14	0.15
tblVehicleEF	MDV	0.07	0.07
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.08	0.09
tblVehicleEF	MDV	0.16	0.21
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	9.6010e-003	0.01
tblVehicleEF	MDV	1.21	1.45
tblVehicleEF	MDV	1.70	2.12
tblVehicleEF	MDV	502.45	534.67
tblVehicleEF	MDV	96.60	103.14
tblVehicleEF	MDV	0.10	0.13
tblVehicleEF	MDV	0.16	0.20
tblVehicleEF	MDV	2.2730e-003	2.3560e-003
tblVehicleEF	MDV	2.4250e-003	2.5140e-003
tblVehicleEF	MDV	2.0940e-003	2.1720e-003
tblVehicleEF	MDV	2.2300e-003	2.3120e-003

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tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.14	0.16
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.03	0.04
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.13	0.17
tblVehicleEF	MDV	5.0310e-003	5.3570e-003
tblVehicleEF	MDV	9.9500e-004	1.0680e-003
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.14	0.16
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.08	0.08
tblVehicleEF	MDV	0.14	0.18
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	0.01	0.01
tblVehicleEF	MDV	1.06	1.29
tblVehicleEF	MDV	2.05	2.56
tblVehicleEF	MDV	473.66	503.99
tblVehicleEF	MDV	96.60	103.14
tblVehicleEF	MDV	0.11	0.14
tblVehicleEF	MDV	0.17	0.22
tblVehicleEF	MDV	2.2730e-003	2.3560e-003
tblVehicleEF	MDV	2.4250e-003	2.5140e-003
tblVehicleEF	MDV	2.0940e-003	2.1720e-003
tblVehicleEF	MDV	2.2300e-003	2.3120e-003
tblVehicleEF	MDV	0.06	0.06

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tblVehicleEF	MDV	0.15	0.16
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.15	0.19
tblVehicleEF	MDV	4.7420e-003	5.0480e-003
tblVehicleEF	MDV	1.0010e-003	1.0760e-003
tblVehicleEF	MDV	0.06	0.06
tblVehicleEF	MDV	0.15	0.16
tblVehicleEF	MDV	0.06	0.07
tblVehicleEF	MDV	0.04	0.05
tblVehicleEF	MDV	0.10	0.10
tblVehicleEF	MDV	0.16	0.21
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.43	2.24
tblVehicleEF	MH	4.82	5.78
tblVehicleEF	MH	1,126.11	1,130.03
tblVehicleEF	MH	59.42	60.43
tblVehicleEF	MH	0.93	1.08
tblVehicleEF	MH	0.71	0.80
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.8700e-004	1.1280e-003
tblVehicleEF	MH	3.2070e-003	3.2020e-003
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.0800e-004	1.0370e-003

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tblVehicleEF	MH	0.76	0.95
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.33	0.41
tblVehicleEF	MH	0.06	0.09
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.28	0.33
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7800e-004	7.0500e-004
tblVehicleEF	MH	0.76	0.95
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.33	0.41
tblVehicleEF	MH	0.08	0.12
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.30	0.36
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.47	2.30
tblVehicleEF	MH	4.54	5.44
tblVehicleEF	MH	1,126.11	1,130.03
tblVehicleEF	MH	59.42	60.43
tblVehicleEF	MH	0.86	0.99
tblVehicleEF	MH	0.68	0.76
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.8700e-004	1.1280e-003
tblVehicleEF	MH	3.2070e-003	3.2020e-003
tblVehicleEF	MH	0.02	0.02

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tblVehicleEF	MH	9.0800e-004	1.0370e-003
tblVehicleEF	MH	1.12	1.41
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.47	0.58
tblVehicleEF	MH	0.06	0.09
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.27	0.31
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7300e-004	6.9900e-004
tblVehicleEF	MH	1.12	1.41
tblVehicleEF	MH	0.05	0.07
tblVehicleEF	MH	0.47	0.58
tblVehicleEF	MH	0.09	0.12
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.29	0.34
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	1.42	2.22
tblVehicleEF	MH	4.87	5.83
tblVehicleEF	MH	1,126.11	1,130.03
tblVehicleEF	MH	59.42	60.43
tblVehicleEF	MH	0.91	1.06
tblVehicleEF	MH	0.71	0.80
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.8700e-004	1.1280e-003
tblVehicleEF	MH	3.2070e-003	3.2020e-003

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tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	9.0800e-004	1.0370e-003
tblVehicleEF	MH	0.85	1.08
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.34	0.42
tblVehicleEF	MH	0.06	0.08
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.28	0.33
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	6.7900e-004	7.0600e-004
tblVehicleEF	MH	0.85	1.08
tblVehicleEF	MH	0.07	0.08
tblVehicleEF	MH	0.34	0.42
tblVehicleEF	MH	0.08	0.12
tblVehicleEF	MH	0.02	0.02
tblVehicleEF	MH	0.31	0.36
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	3.4980e-003	4.8560e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.35	0.37
tblVehicleEF	MHD	0.29	0.37
tblVehicleEF	MHD	5.13	6.14
tblVehicleEF	MHD	132.56	132.92
tblVehicleEF	MHD	1,140.29	1,150.98
tblVehicleEF	MHD	61.49	63.58
tblVehicleEF	MHD	0.35	0.49
tblVehicleEF	MHD	0.76	1.14

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tblVehicleEF	MHD	10.11	9.96
tblVehicleEF	MHD	9.0000e-005	2.4800e-004
tblVehicleEF	MHD	2.8650e-003	5.1090e-003
tblVehicleEF	MHD	7.8500e-004	8.4300e-004
tblVehicleEF	MHD	8.6000e-005	2.3800e-004
tblVehicleEF	MHD	2.7360e-003	4.8830e-003
tblVehicleEF	MHD	7.2200e-004	7.7600e-004
tblVehicleEF	MHD	9.8100e-004	1.1350e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.03
tblVehicleEF	MHD	6.6900e-004	7.4200e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.32	0.37
tblVehicleEF	MHD	1.2770e-003	1.2810e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0500e-004	7.4300e-004
tblVehicleEF	MHD	9.8100e-004	1.1350e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.03	0.04
tblVehicleEF	MHD	6.6900e-004	7.4200e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.41
tblVehicleEF	MHD	0.01	0.02
tblVehicleEF	MHD	3.5450e-003	4.9280e-003
tblVehicleEF	MHD	0.04	0.05

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tblVehicleEF	MHD	0.26	0.27
tblVehicleEF	MHD	0.30	0.38
tblVehicleEF	MHD	4.87	5.83
tblVehicleEF	MHD	140.40	140.78
tblVehicleEF	MHD	1,140.29	1,150.98
tblVehicleEF	MHD	61.49	63.58
tblVehicleEF	MHD	0.36	0.51
tblVehicleEF	MHD	0.71	1.08
tblVehicleEF	MHD	10.08	9.92
tblVehicleEF	MHD	7.6000e-005	2.0900e-004
tblVehicleEF	MHD	2.8650e-003	5.1090e-003
tblVehicleEF	MHD	7.8500e-004	8.4300e-004
tblVehicleEF	MHD	7.2000e-005	2.0000e-004
tblVehicleEF	MHD	2.7360e-003	4.8830e-003
tblVehicleEF	MHD	7.2200e-004	7.7600e-004
tblVehicleEF	MHD	1.4660e-003	1.7000e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	9.3700e-004	1.0480e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.30	0.36
tblVehicleEF	MHD	1.3510e-003	1.3550e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0000e-004	7.3800e-004
tblVehicleEF	MHD	1.4660e-003	1.7000e-003
tblVehicleEF	MHD	0.04	0.05

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tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	9.3700e-004	1.0480e-003
tblVehicleEF	MHD	0.04	0.06
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.33	0.39
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	3.4850e-003	4.8360e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.49	0.52
tblVehicleEF	MHD	0.29	0.37
tblVehicleEF	MHD	5.18	6.20
tblVehicleEF	MHD	121.72	122.05
tblVehicleEF	MHD	1,140.29	1,150.98
tblVehicleEF	MHD	61.49	63.58
tblVehicleEF	MHD	0.33	0.47
tblVehicleEF	MHD	0.74	1.12
tblVehicleEF	MHD	10.12	9.97
tblVehicleEF	MHD	1.0900e-004	3.0200e-004
tblVehicleEF	MHD	2.8650e-003	5.1090e-003
tblVehicleEF	MHD	7.8500e-004	8.4300e-004
tblVehicleEF	MHD	1.0500e-004	2.8900e-004
tblVehicleEF	MHD	2.7360e-003	4.8830e-003
tblVehicleEF	MHD	7.2200e-004	7.7600e-004
tblVehicleEF	MHD	9.9000e-004	1.1690e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.03	0.03
tblVehicleEF	MHD	6.4900e-004	7.2400e-004

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tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.32	0.38
tblVehicleEF	MHD	1.1750e-003	1.1790e-003
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	7.0600e-004	7.4400e-004
tblVehicleEF	MHD	9.9000e-004	1.1690e-003
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.04	0.04
tblVehicleEF	MHD	6.4900e-004	7.2400e-004
tblVehicleEF	MHD	0.04	0.05
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	0.35	0.41
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4840e-003	7.7220e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.25	0.28
tblVehicleEF	OBUS	0.41	0.53
tblVehicleEF	OBUS	4.93	5.41
tblVehicleEF	OBUS	102.93	112.13
tblVehicleEF	OBUS	1,248.17	1,260.49
tblVehicleEF	OBUS	67.50	67.92
tblVehicleEF	OBUS	0.22	0.51
tblVehicleEF	OBUS	0.71	1.55
tblVehicleEF	OBUS	2.50	2.60
tblVehicleEF	OBUS	2.0000e-005	1.1400e-004
tblVehicleEF	OBUS	2.7480e-003	7.4300e-003

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tblVehicleEF	OBUS	8.4800e-004	8.0700e-004
tblVehicleEF	OBUS	1.9000e-005	1.0900e-004
tblVehicleEF	OBUS	2.6130e-003	7.0930e-003
tblVehicleEF	OBUS	7.8000e-004	7.4200e-004
tblVehicleEF	OBUS	1.3910e-003	1.4340e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.6200e-004	7.6800e-004
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.31	0.34
tblVehicleEF	OBUS	9.9400e-004	1.0820e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6100e-004	7.7400e-004
tblVehicleEF	OBUS	1.3910e-003	1.4340e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	7.6200e-004	7.6800e-004
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.34	0.37
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.5780e-003	7.8490e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.24	0.27
tblVehicleEF	OBUS	0.42	0.54
tblVehicleEF	OBUS	4.66	5.11

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tblVehicleEF	OBUS	108.07	117.81
tblVehicleEF	OBUS	1,248.17	1,260.49
tblVehicleEF	OBUS	67.50	67.92
tblVehicleEF	OBUS	0.23	0.53
tblVehicleEF	OBUS	0.67	1.46
tblVehicleEF	OBUS	2.46	2.57
tblVehicleEF	OBUS	1.7000e-005	9.6000e-005
tblVehicleEF	OBUS	2.7480e-003	7.4300e-003
tblVehicleEF	OBUS	8.4800e-004	8.0700e-004
tblVehicleEF	OBUS	1.6000e-005	9.2000e-005
tblVehicleEF	OBUS	2.6130e-003	7.0930e-003
tblVehicleEF	OBUS	7.8000e-004	7.4200e-004
tblVehicleEF	OBUS	2.0340e-003	2.1010e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	1.0660e-003	1.0830e-003
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.30	0.32
tblVehicleEF	OBUS	1.0430e-003	1.1360e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.5700e-004	7.6900e-004
tblVehicleEF	OBUS	2.0340e-003	2.1010e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.05
tblVehicleEF	OBUS	1.0660e-003	1.0830e-003
tblVehicleEF	OBUS	0.05	0.08

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tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.32	0.35
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	5.4590e-003	7.6880e-003
tblVehicleEF	OBUS	0.03	0.03
tblVehicleEF	OBUS	0.26	0.30
tblVehicleEF	OBUS	0.41	0.53
tblVehicleEF	OBUS	4.98	5.47
tblVehicleEF	OBUS	95.85	104.30
tblVehicleEF	OBUS	1,248.17	1,260.49
tblVehicleEF	OBUS	67.50	67.92
tblVehicleEF	OBUS	0.21	0.49
tblVehicleEF	OBUS	0.70	1.52
tblVehicleEF	OBUS	2.50	2.61
tblVehicleEF	OBUS	2.4000e-005	1.3900e-004
tblVehicleEF	OBUS	2.7480e-003	7.4300e-003
tblVehicleEF	OBUS	8.4800e-004	8.0700e-004
tblVehicleEF	OBUS	2.3000e-005	1.3300e-004
tblVehicleEF	OBUS	2.6130e-003	7.0930e-003
tblVehicleEF	OBUS	7.8000e-004	7.4200e-004
tblVehicleEF	OBUS	1.4050e-003	1.4690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.03	0.04
tblVehicleEF	OBUS	7.3700e-004	7.4700e-004
tblVehicleEF	OBUS	0.04	0.06
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.31	0.34

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tblVehicleEF	OBUS	9.2600e-004	1.0070e-003
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.6200e-004	7.7500e-004
tblVehicleEF	OBUS	1.4050e-003	1.4690e-003
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	7.3700e-004	7.4700e-004
tblVehicleEF	OBUS	0.05	0.08
tblVehicleEF	OBUS	0.04	0.04
tblVehicleEF	OBUS	0.34	0.37
tblVehicleEF	SBUS	0.83	0.84
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.06	0.06
tblVehicleEF	SBUS	8.41	8.15
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	7.01	7.31
tblVehicleEF	SBUS	1,089.91	1,121.00
tblVehicleEF	SBUS	1,062.27	1,079.30
tblVehicleEF	SBUS	57.76	55.06
tblVehicleEF	SBUS	7.82	9.20
tblVehicleEF	SBUS	3.46	4.17
tblVehicleEF	SBUS	11.58	12.12
tblVehicleEF	SBUS	7.0050e-003	9.3410e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.9100e-004	8.1500e-004
tblVehicleEF	SBUS	6.7020e-003	8.9370e-003

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tblVehicleEF	SBUS	2.6490e-003	2.6670e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.1900e-004	7.5000e-004
tblVehicleEF	SBUS	3.4080e-003	3.3650e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.00	0.97
tblVehicleEF	SBUS	1.8930e-003	1.7650e-003
tblVehicleEF	SBUS	0.09	0.10
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.37	0.38
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.9900e-004	6.7700e-004
tblVehicleEF	SBUS	3.4080e-003	3.3650e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.45	1.40
tblVehicleEF	SBUS	1.8930e-003	1.7650e-003
tblVehicleEF	SBUS	0.11	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.41	0.42
tblVehicleEF	SBUS	0.83	0.84
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.05	0.06
tblVehicleEF	SBUS	8.31	8.04
tblVehicleEF	SBUS	0.62	0.73
tblVehicleEF	SBUS	5.69	5.94
tblVehicleEF	SBUS	1,137.73	1,171.46

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tblVehicleEF	SBUS	1,062.27	1,079.30
tblVehicleEF	SBUS	57.76	55.06
tblVehicleEF	SBUS	8.07	9.50
tblVehicleEF	SBUS	3.26	3.93
tblVehicleEF	SBUS	11.55	12.09
tblVehicleEF	SBUS	5.9050e-003	7.8750e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.9100e-004	8.1500e-004
tblVehicleEF	SBUS	5.6500e-003	7.5340e-003
tblVehicleEF	SBUS	2.6490e-003	2.6670e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.1900e-004	7.5000e-004
tblVehicleEF	SBUS	5.0090e-003	4.9570e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.00	0.97
tblVehicleEF	SBUS	2.6560e-003	2.5080e-003
tblVehicleEF	SBUS	0.09	0.10
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.33	0.34
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.7700e-004	6.5400e-004
tblVehicleEF	SBUS	5.0090e-003	4.9570e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.44	1.40
tblVehicleEF	SBUS	2.6560e-003	2.5080e-003

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tblVehicleEF	SBUS	0.11	0.13
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.36	0.37
tblVehicleEF	SBUS	0.83	0.84
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.06	0.07
tblVehicleEF	SBUS	8.54	8.31
tblVehicleEF	SBUS	0.61	0.72
tblVehicleEF	SBUS	7.24	7.56
tblVehicleEF	SBUS	1,023.86	1,051.30
tblVehicleEF	SBUS	1,062.27	1,079.30
tblVehicleEF	SBUS	57.76	55.06
tblVehicleEF	SBUS	7.48	8.80
tblVehicleEF	SBUS	3.40	4.10
tblVehicleEF	SBUS	11.58	12.13
tblVehicleEF	SBUS	8.5240e-003	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.9100e-004	8.1500e-004
tblVehicleEF	SBUS	8.1550e-003	0.01
tblVehicleEF	SBUS	2.6490e-003	2.6670e-003
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	8.1900e-004	7.5000e-004
tblVehicleEF	SBUS	3.3910e-003	3.4320e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.00	0.98
tblVehicleEF	SBUS	1.8130e-003	1.6940e-003

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tblVehicleEF	SBUS	0.09	0.10
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.38	0.39
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	7.0300e-004	6.8100e-004
tblVehicleEF	SBUS	3.3910e-003	3.4320e-003
tblVehicleEF	SBUS	0.03	0.03
tblVehicleEF	SBUS	1.45	1.41
tblVehicleEF	SBUS	1.8130e-003	1.6940e-003
tblVehicleEF	SBUS	0.11	0.13
tblVehicleEF	SBUS	0.02	0.02
tblVehicleEF	SBUS	0.42	0.43
tblVehicleEF	UBUS	2.28	2.61
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	10.20	11.22
tblVehicleEF	UBUS	8.89	8.87
tblVehicleEF	UBUS	1,934.49	1,968.89
tblVehicleEF	UBUS	104.15	96.56
tblVehicleEF	UBUS	8.69	9.98
tblVehicleEF	UBUS	14.82	15.36
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.12	0.13
tblVehicleEF	UBUS	1.1960e-003	1.0870e-003
tblVehicleEF	UBUS	0.25	0.26
tblVehicleEF	UBUS	0.11	0.13
tblVehicleEF	UBUS	1.1000e-003	9.9900e-004

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tblVehicleEF	UBUS	4.1520e-003	4.1440e-003
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	2.4690e-003	2.3870e-003
tblVehicleEF	UBUS	0.74	0.85
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.69	0.68
tblVehicleEF	UBUS	9.7410e-003	9.8600e-003
tblVehicleEF	UBUS	1.2020e-003	1.1250e-003
tblVehicleEF	UBUS	4.1520e-003	4.1440e-003
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	2.4690e-003	2.3870e-003
tblVehicleEF	UBUS	3.11	3.56
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.76	0.74
tblVehicleEF	UBUS	2.29	2.61
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	10.25	11.27
tblVehicleEF	UBUS	7.71	7.69
tblVehicleEF	UBUS	1,934.49	1,968.89
tblVehicleEF	UBUS	104.15	96.56
tblVehicleEF	UBUS	8.19	9.41
tblVehicleEF	UBUS	14.77	15.31
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.12	0.13
tblVehicleEF	UBUS	1.1960e-003	1.0870e-003
tblVehicleEF	UBUS	0.25	0.26
tblVehicleEF	UBUS	0.11	0.13

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tblVehicleEF	UBUS	1.1000e-003	9.9900e-004
tblVehicleEF	UBUS	5.9260e-003	5.9080e-003
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	3.3920e-003	3.2830e-003
tblVehicleEF	UBUS	0.75	0.86
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.64	0.62
tblVehicleEF	UBUS	9.7420e-003	9.8610e-003
tblVehicleEF	UBUS	1.1820e-003	1.1050e-003
tblVehicleEF	UBUS	5.9260e-003	5.9080e-003
tblVehicleEF	UBUS	0.07	0.07
tblVehicleEF	UBUS	3.3920e-003	3.2830e-003
tblVehicleEF	UBUS	3.12	3.57
tblVehicleEF	UBUS	0.02	0.02
tblVehicleEF	UBUS	0.70	0.68
tblVehicleEF	UBUS	2.28	2.61
tblVehicleEF	UBUS	0.05	0.05
tblVehicleEF	UBUS	10.19	11.21
tblVehicleEF	UBUS	9.10	9.08
tblVehicleEF	UBUS	1,934.49	1,968.89
tblVehicleEF	UBUS	104.15	96.56
tblVehicleEF	UBUS	8.53	9.79
tblVehicleEF	UBUS	14.83	15.38
tblVehicleEF	UBUS	0.59	0.61
tblVehicleEF	UBUS	0.12	0.13
tblVehicleEF	UBUS	1.1960e-003	1.0870e-003
tblVehicleEF	UBUS	0.25	0.26

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tblVehicleEF	UBUS	0.11	0.13
tblVehicleEF	UBUS	1.1000e-003	9.9900e-004
tblVehicleEF	UBUS	4.6510e-003	4.7000e-003
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	2.5600e-003	2.5010e-003
tblVehicleEF	UBUS	0.74	0.85
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.71	0.69
tblVehicleEF	UBUS	9.7410e-003	9.8590e-003
tblVehicleEF	UBUS	1.2060e-003	1.1290e-003
tblVehicleEF	UBUS	4.6510e-003	4.7000e-003
tblVehicleEF	UBUS	0.08	0.08
tblVehicleEF	UBUS	2.5600e-003	2.5010e-003
tblVehicleEF	UBUS	3.10	3.55
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	0.77	0.75

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-22-2022	7-21-2022	0.0003	0.0003
		Highest	0.0003	0.0003

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0204	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	24.7263	24.7263	9.7000e-004	2.4000e-004	24.8205
Mobile	0.0127	0.0663	0.1715	6.2000e-004	0.0512	5.2000e-004	0.0518	0.0137	4.9000e-004	0.0142	0.0000	57.4280	57.4280	2.9700e-003	0.0000	57.5022
Waste						0.0000	0.0000		0.0000	0.0000	0.9439	0.0000	0.9439	0.0558	0.0000	2.3385
Water						0.0000	0.0000		0.0000	0.0000	0.2819	5.6149	5.8969	0.0292	7.3000e-004	6.8447
Total	0.0333	0.0686	0.1734	6.3000e-004	0.0512	6.9000e-004	0.0519	0.0137	6.6000e-004	0.0144	1.2258	87.7693	88.9952	0.0889	9.7000e-004	91.5060

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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	0.0204	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Energy	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	24.7263	24.7263	9.7000e-004	2.4000e-004	24.8205
Mobile	0.0127	0.0663	0.1715	6.2000e-004	0.0512	5.2000e-004	0.0518	0.0137	4.9000e-004	0.0142	0.0000	57.4280	57.4280	2.9700e-003	0.0000	57.5022
Waste						0.0000	0.0000		0.0000	0.0000	0.9439	0.0000	0.9439	0.0558	0.0000	2.3385
Water						0.0000	0.0000		0.0000	0.0000	0.2819	5.6149	5.8969	0.0292	7.3000e-004	6.8447
Total	0.0333	0.0686	0.1734	6.3000e-004	0.0512	6.9000e-004	0.0519	0.0137	6.6000e-004	0.0144	1.2258	87.7693	88.9952	0.0889	9.7000e-004	91.5060

	ROG	NOx	CO	SO2	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	4/22/2022	5/5/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	0	0.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	0.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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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					
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
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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4771	0.4771	1.0000e-005	0.0000	0.4774
Total	2.0000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4771	0.4771	1.0000e-005	0.0000	0.4774

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4771	0.4771	1.0000e-005	0.0000	0.4774
Total	2.0000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4771	0.4771	1.0000e-005	0.0000	0.4774

4.0 Operational Detail - Mobile

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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	0.0127	0.0663	0.1715	6.2000e-004	0.0512	5.2000e-004	0.0518	0.0137	4.9000e-004	0.0142	0.0000	57.4280	57.4280	2.9700e-003	0.0000	57.5022
Unmitigated	0.0127	0.0663	0.1715	6.2000e-004	0.0512	5.2000e-004	0.0518	0.0137	4.9000e-004	0.0142	0.0000	57.4280	57.4280	2.9700e-003	0.0000	57.5022

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	55.15	12.30	5.25	134,979	134,979
Total	55.15	12.30	5.25	134,979	134,979

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876

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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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.2876	22.2876	9.2000e-004	1.9000e-004	22.3673
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.2876	22.2876	9.2000e-004	1.9000e-004	22.3673
NaturalGas Mitigated	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4387	2.4387	5.0000e-005	4.0000e-005	2.4532
NaturalGas Unmitigated	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4387	2.4387	5.0000e-005	4.0000e-005	2.4532

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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					
General Office Building	45700	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4387	2.4387	5.0000e-005	4.0000e-005	2.4532
Total		2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4387	2.4387	5.0000e-005	4.0000e-005	2.4532

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	45700	2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4387	2.4387	5.0000e-005	4.0000e-005	2.4532
Total		2.5000e-004	2.2400e-003	1.8800e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4387	2.4387	5.0000e-005	4.0000e-005	2.4532

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	69950	22.2876	9.2000e-004	1.9000e-004	22.3673
Total		22.2876	9.2000e-004	1.9000e-004	22.3673

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	69950	22.2876	9.2000e-004	1.9000e-004	22.3673
Total		22.2876	9.2000e-004	1.9000e-004	22.3673

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive 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	0.0204	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Unmitigated	0.0204	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0204	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

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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	2.3200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004
Total	0.0204	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.2000e-004	1.2000e-004	0.0000	0.0000	1.3000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.8969	0.0292	7.3000e-004	6.8447
Unmitigated	5.8969	0.0292	7.3000e-004	6.8447

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	5.8969	0.0292	7.3000e-004	6.8447
Total		5.8969	0.0292	7.3000e-004	6.8447

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.888669 / 0.544668	5.8969	0.0292	7.3000e-004	6.8447
Total		5.8969	0.0292	7.3000e-004	6.8447

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9439	0.0558	0.0000	2.3385
Unmitigated	0.9439	0.0558	0.0000	2.3385

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Total		0.9439	0.0558	0.0000	2.3385

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	4.65	0.9439	0.0558	0.0000	2.3385
Total		0.9439	0.0558	0.0000	2.3385

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

Operational Vehicle Fuel Calculations

Table 1. On road Vehicles - Operational

Scenario	Annual VMT	Fuel Consumption (Gallons)		
		Gasoline	Diesel	Total
2020 (Baseline) Non-Event w/out ITC	998,811,151	39,082,917	6,255,795	45,338,712
2020 (Baseline) Non-Event w/ ITC	985,939,091	38,579,241	6,175,174	44,754,415

Table 2. Fuel Consumption Summary

Fuel	Fuel Efficiency (MPG)	%Fleet
Gasoline	24.3	94.9%
Diesel	9.6	6.0%

Notes:

Percent fleet based on VMT from EMFAC2017 as shown in **Table 3: EMFAC2017 Emissions Inventory-Operations**

Annual VMT obtained from Project's Traffic Study

Fuel efficiency based on calculations in **Table 3: EMFAC2017 Emissions Inventory-Operations**, from EMFAC2017.

Table 3. EMFAC2017 Emissions Inventory - Operations

Fuel	VMT (miles/day)	Fuel Consumption (1,000 gal/day)	Fuel Efficiency (miles per gallon)	Fuel Percentage
GAS	264,155,363	10,892	24.3	94.0
DSL	16,891,142	1,763	9.6	6.0

Note: Fuel percentage based on VMT.

Fuel efficiency calculated using fuel consumption and VMT from EMFAC2017.

Buildout

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption
Los Angeles	2020	All Other Buses	Aggregate	Aggregate	Diesel	2343.183367	137563.739	19682.74	14.1161854
Los Angeles	2020	LDA	Aggregate	Aggregate	Diesel	31076.31513	1254451.721	146424.42	27.9088928
Los Angeles	2020	LDT1	Aggregate	Aggregate	Diesel	318.883827	7980.175189	1138.7155	0.37287795
Los Angeles	2020	LDT2	Aggregate	Aggregate	Diesel	7213.217576	323321.6928	35805.946	9.82252833
Los Angeles	2020	LHD1	Aggregate	Aggregate	Diesel	56903.01909	2486530.227	715768.4	117.791105
Los Angeles	2020	LHD2	Aggregate	Aggregate	Diesel	22879.84257	965315.4133	287799.64	50.7533507
Los Angeles	2020	MDV	Aggregate	Aggregate	Diesel	16089.08268	669900.0567	79575.136	26.3936319
Los Angeles	2020	MH	Aggregate	Aggregate	Diesel	5530.806279	58524.02015	553.08063	5.70707465
Los Angeles	2020	Motor Coach	Aggregate	Aggregate	Diesel	702.2154761	89665.48353	10252.346	14.4523655
Los Angeles	2020	PTO	Aggregate	Aggregate	Diesel	0	77604.1055	0	16.4216755
Los Angeles	2020	SBUS	Aggregate	Aggregate	Diesel	3809.443819	120609.469	43960.454	16.1571433
Los Angeles	2020	T6 Ag	Aggregate	Aggregate	Diesel	12.13978335	107.0237496	53.415047	0.01274398
Los Angeles	2020	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	324.6927269	64529.30907	4740.5138	5.90474098
Los Angeles	2020	T6 CAIRP small	Aggregate	Aggregate	Diesel	171.3744268	9061.632137	2502.0666	0.87792896
Los Angeles	2020	T6 instate construc	Aggregate	Aggregate	Diesel	2426.278984	164958.2412	10969.113	17.1675901
Los Angeles	2020	T6 instate construc	Aggregate	Aggregate	Diesel	8537.295099	435827.4708	38596.779	44.6971862
Los Angeles	2020	T6 instate heavy	Aggregate	Aggregate	Diesel	10102.25993	1359860.13	116578.68	131.843601
Los Angeles	2020	T6 instate small	Aggregate	Aggregate	Diesel	37540.76445	1865390.823	433215.22	189.898679
Los Angeles	2020	T6 OOS heavy	Aggregate	Aggregate	Diesel	186.4754929	37250.5508	2722.5422	3.40393096
Los Angeles	2020	T6 OOS small	Aggregate	Aggregate	Diesel	98.67271095	5170.267112	1440.6216	0.5018257

Los Angeles	2020 T6 Public	Aggregate	Aggregate	Diesel	4475.529673	69103.13903	13575.773	8.79751183
Los Angeles	2020 T6 utility	Aggregate	Aggregate	Diesel	1007.118484	16810.42349	11581.863	1.83528551
Los Angeles	2020 T7 Ag	Aggregate	Aggregate	Diesel	4.499762918	120.7863657	19.798957	0.02168075
Los Angeles	2020 T7 CAIRP	Aggregate	Aggregate	Diesel	6042.295873	1093836.153	88217.52	164.281583
Los Angeles	2020 T7 CAIRP construct	Aggregate	Aggregate	Diesel	644.2267122	118490.9376	2912.5239	16.8652056
Los Angeles	2020 T7 NNOOS	Aggregate	Aggregate	Diesel	6606.490559	1333460.793	96454.762	193.819756
Los Angeles	2020 T7 NOOS	Aggregate	Aggregate	Diesel	2375.153039	429767.5625	34677.234	66.0619206
Los Angeles	2020 T7 POLA	Aggregate	Aggregate	Diesel	7812.833003	956447.7775	59377.531	173.248902
Los Angeles	2020 T7 Public	Aggregate	Aggregate	Diesel	5388.516036	109151.4293	16345.165	19.3374384
Los Angeles	2020 T7 Single	Aggregate	Aggregate	Diesel	5736.833995	390829.7871	66202.269	63.0358823
Los Angeles	2020 T7 single constructi	Aggregate	Aggregate	Diesel	4167.887734	293954.2221	18842.858	46.261699
Los Angeles	2020 T7 SWCV	Aggregate	Aggregate	Diesel	1728.151607	70608.4147	6739.7913	34.8920516
Los Angeles	2020 T7 tractor	Aggregate	Aggregate	Diesel	11761.82458	1618822.242	149375.17	240.042823
Los Angeles	2020 T7 tractor construc	Aggregate	Aggregate	Diesel	3450.515128	242486.3532	15599.645	38.3016783
Los Angeles	2020 T7 utility	Aggregate	Aggregate	Diesel	400.4086405	8126.106231	4604.6994	1.35640505
Los Angeles	2020 UBUS	Aggregate	Aggregate	Diesel	41.1944	5504.505842	164.7776	0.85678686
Los Angeles	2020 LDA	Aggregate	Aggregate	Electri	57356.66823	2261366.873	287682.11	0
Los Angeles	2020 LDT1	Aggregate	Aggregate	Electri	1699.39713	63017.51025	8323.1593	0
Los Angeles	2020 LDT2	Aggregate	Aggregate	Electri	8126.151697	276685.8029	41262.617	0
Los Angeles	2020 MDV	Aggregate	Aggregate	Electri	2584.09029	90675.00829	13238.702	0
Los Angeles	2020 UBUS	Aggregate	Aggregate	Electri	14	1217.553685	56	0
Los Angeles	2020 LDA	Aggregate	Aggregate	Gasoli	3953775.191	155194409.6	18642464	5389.41223
Los Angeles	2020 LDT1	Aggregate	Aggregate	Gasoli	437139.5609	16649906.4	2009946.7	669.900336
Los Angeles	2020 LDT2	Aggregate	Aggregate	Gasoli	1346078.916	52129905.23	6303494	2298.92445
Los Angeles	2020 LHD1	Aggregate	Aggregate	Gasoli	108459.0814	4003593.023	1615878.7	390.688777
Los Angeles	2020 LHD2	Aggregate	Aggregate	Gasoli	17784.10214	634396.3378	264956.62	71.0476859
Los Angeles	2020 MCY	Aggregate	Aggregate	Gasoli	167287.212	1221839.315	334574.42	34.078752
Los Angeles	2020 MDV	Aggregate	Aggregate	Gasoli	921418.9646	33053258.24	4259404.3	1782.50644
Los Angeles	2020 MH	Aggregate	Aggregate	Gasoli	19816.73507	197547.6114	1982.4662	39.6611152
Los Angeles	2020 OBUS	Aggregate	Aggregate	Gasoli	4049.799558	176714.7778	81028.39	36.2499118
Los Angeles	2020 SBUS	Aggregate	Aggregate	Gasoli	1186.765779	49913.78493	4747.0631	5.54611145
Los Angeles	2020 T6TS	Aggregate	Aggregate	Gasoli	14534.12164	804968.7922	290798.71	164.240852
Los Angeles	2020 T7IS	Aggregate	Aggregate	Gasoli	62.22338142	5724.924108	1244.9654	1.47414264
Los Angeles	2020 UBUS	Aggregate	Aggregate	Gasoli	455.5999368	33185.08396	1822.3997	7.99772055
Los Angeles	2020 T7 SWCV	Aggregate	Aggregate	Natur:	2261.419472	92031.42275	8819.5359	42.4687877
Los Angeles	2020 UBUS	Aggregate	Aggregate	Natur:	4123.445337	436938.8565	16493.781	110.591074

	VMT Sum	Fuel Sum	Fuel Sum/Year
Diesel	16891142.18	1763.221667	643,575,909
Gas	264155363.1	10891.72852	3,975,480,911
			4,619,056,820

Table 1. On road Vehicles - Operational

Scenario	Annual VMT	Fuel Consumption (Gallons)		
		Gasoline	Diesel	Total
2027 (Future) Non-Event w/out ITC	1,245,731,160	39,370,659	7,700,718	47,071,377
2027 (Future) Non-Event w/ ITC	1,229,255,081	38,849,942	7,598,868	46,448,809
2027 (Future) Event w/out ITC	1,346,432,106	42,553,258	8,323,219	50,876,477
2027 (Future) Event w/ ITC	1,310,204,482	41,408,304	8,099,272	49,507,575

Table 2. Fuel Consumption Summary

Fuel	Fuel Efficiency (MPG)	%Fleet
Gasoline	29.3	92.7%
Diesel	11.8	7.3%

Notes:

Percent fleet based on VMT from EMFAC2017 as shown in **Table 3: EMFAC2017 Emissions Inventory-Operations**

Annual VMT obtained from Project's Traffic Study

Fuel efficiency based on calculations in **Table 3: EMFAC2017 Emissions Inventory-Operations**, from EMFAC2017.

Table 3. EMFAC2017 Emissions Inventory - Operations

Fuel	VMT (miles/day)	Fuel Consumption (1,000 gal/day)	Fuel Efficiency (miles per gallon)	Fuel Percentage
GAS	264,748,609	9,026	29.3	92.7
DSL	20,873,654	1,768	11.8	7.3

Note: Fuel percentage based on VMT.

Fuel efficiency calculated using fuel consumption and VMT from EMFAC2017.

Buildout

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2027

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption
Los Angeles	2027	All Other Buses	Aggregate	Aggregate	Diesel	2928.244068	167576.9571	24597.25	14.7973053
Los Angeles	2027	LDA	Aggregate	Aggregate	Diesel	43926.40393	1647186.855	209900.89	30.7690067
Los Angeles	2027	LDT1	Aggregate	Aggregate	Diesel	157.5329145	4132.542246	600.29929	0.17228995
Los Angeles	2027	LDT2	Aggregate	Aggregate	Diesel	12880.90116	489461.2734	62495.517	12.4038234
Los Angeles	2027	LHD1	Aggregate	Aggregate	Diesel	88693.71017	3446903.904	1115655.3	146.479145
Los Angeles	2027	LHD2	Aggregate	Aggregate	Diesel	36069.05587	1345321.508	453703.35	63.5652524
Los Angeles	2027	MDV	Aggregate	Aggregate	Diesel	28018.63463	1002209.516	135639.73	32.7902275
Los Angeles	2027	MH	Aggregate	Aggregate	Diesel	7558.730539	74485.73928	755.87305	6.59375641
Los Angeles	2027	Motor Coach	Aggregate	Aggregate	Diesel	815.0350008	101259.3468	11899.511	14.1446557
Los Angeles	2027	PTO	Aggregate	Aggregate	Diesel	0	83177.05696	0	15.3791889
Los Angeles	2027	SBUS	Aggregate	Aggregate	Diesel	3961.780955	125049.8475	45718.403	15.4690675
Los Angeles	2027	T6 Ag	Aggregate	Aggregate	Diesel	12.80803027	76.04848299	56.355333	0.0089321
Los Angeles	2027	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	399.8150613	73169.63868	5837.2999	5.51250084
Los Angeles	2027	T6 CAIRP small	Aggregate	Aggregate	Diesel	217.4341274	10383.60688	3174.5383	0.85893491
Los Angeles	2027	T6 instate construc	Aggregate	Aggregate	Diesel	2805.963386	172269.173	12685.651	15.5267658
Los Angeles	2027	T6 instate construc	Aggregate	Aggregate	Diesel	8893.994696	457807.4054	40209.404	40.0232623
Los Angeles	2027	T6 instate heavy	Aggregate	Aggregate	Diesel	13558.56657	1659628.925	156463.98	134.955194
Los Angeles	2027	T6 instate small	Aggregate	Aggregate	Diesel	45851.4524	2228055.361	529119.4	193.175001
Los Angeles	2027	T6 OOS heavy	Aggregate	Aggregate	Diesel	232.005763	42522.76631	3387.2841	3.20217566
Los Angeles	2027	T6 OOS small	Aggregate	Aggregate	Diesel	124.2755728	5894.702082	1814.4234	0.48839981

Los Angeles	2027 T6 Public	Aggregate	Aggregate	Diesel	4742.273034	74835.9516	14384.895	8.3364888
Los Angeles	2027 T6 utility	Aggregate	Aggregate	Diesel	1075.386059	17847.1615	12366.94	1.65920808
Los Angeles	2027 T7 Ag	Aggregate	Aggregate	Diesel	6.793627775	32.27187042	29.891962	0.0066579
Los Angeles	2027 T7 CAIRP	Aggregate	Aggregate	Diesel	6501.532728	1233922.367	94922.378	155.613679
Los Angeles	2027 T7 CAIRP construct	Aggregate	Aggregate	Diesel	674.9933869	123742.4435	3051.6189	14.970158
Los Angeles	2027 T7 NNOOS	Aggregate	Aggregate	Diesel	8125.03718	1504133.084	118625.54	179.711216
Los Angeles	2027 T7 NOOS	Aggregate	Aggregate	Diesel	2595.754953	484835.4985	37898.022	62.8678512
Los Angeles	2027 T7 POLA	Aggregate	Aggregate	Diesel	9060.174019	1393177.777	68857.323	209.183853
Los Angeles	2027 T7 Public	Aggregate	Aggregate	Diesel	5783.385005	117156.5609	17542.934	18.4789506
Los Angeles	2027 T7 Single	Aggregate	Aggregate	Diesel	6210.69905	418896.2846	71670.606	57.7928074
Los Angeles	2027 T7 single constructi	Aggregate	Aggregate	Diesel	4366.645518	306982.2422	19741.435	40.992324
Los Angeles	2027 T7 SWCV	Aggregate	Aggregate	Diesel	851.7693875	34800.76198	3321.9006	17.0867189
Los Angeles	2027 T7 tractor	Aggregate	Aggregate	Diesel	14740.21047	1764105.562	187200.67	219.038874
Los Angeles	2027 T7 tractor construc	Aggregate	Aggregate	Diesel	3710.08679	253233.3229	16773.158	34.1148848
Los Angeles	2027 T7 utility	Aggregate	Aggregate	Diesel	425.7725794	8628.501907	4896.3847	1.29252889
Los Angeles	2027 UBUS	Aggregate	Aggregate	Diesel	6.0834	752.2395132	24.3336	0.13285609
Los Angeles	2027 LDA	Aggregate	Aggregate	Electri	156692.9782	6494528.454	775045.32	0
Los Angeles	2027 LDT1	Aggregate	Aggregate	Electri	10028.68742	424838.4054	49944.046	0
Los Angeles	2027 LDT2	Aggregate	Aggregate	Electri	36594.60321	1072242.053	182269.91	0
Los Angeles	2027 MDV	Aggregate	Aggregate	Electri	24125.49043	722432.2277	121042.14	0
Los Angeles	2027 UBUS	Aggregate	Aggregate	Electri	14	1217.553685	56	0
Los Angeles	2027 LDA	Aggregate	Aggregate	Gasoli	4223903.069	151386059.1	19906567	4387.6562
Los Angeles	2027 LDT1	Aggregate	Aggregate	Gasoli	534686.017	18729354.47	2479690.7	635.573682
Los Angeles	2027 LDT2	Aggregate	Aggregate	Gasoli	1527540.238	54451687.08	7175585.7	1902.24203
Los Angeles	2027 LHD1	Aggregate	Aggregate	Gasoli	107370.4487	3768343.983	1599659.7	336.619342
Los Angeles	2027 LHD2	Aggregate	Aggregate	Gasoli	18797.7819	636178.05	280058.94	65.3402817
Los Angeles	2027 MCY	Aggregate	Aggregate	Gasoli	212627.4399	1390471.504	425254.88	39.2117013
Los Angeles	2027 MDV	Aggregate	Aggregate	Gasoli	992199.3086	33081966.49	4616781	1426.4688
Los Angeles	2027 MH	Aggregate	Aggregate	Gasoli	19738.69056	198271.6713	1974.6586	35.6149274
Los Angeles	2027 OBUS	Aggregate	Aggregate	Gasoli	4000.848101	153044.7019	80048.969	28.2938613
Los Angeles	2027 SBUS	Aggregate	Aggregate	Gasoli	1906.968068	73318.54378	7627.8723	7.55522219
Los Angeles	2027 T6TS	Aggregate	Aggregate	Gasoli	15466.59149	838476.4302	309455.56	152.980505
Los Angeles	2027 T7IS	Aggregate	Aggregate	Gasoli	51.9437895	6864.60704	1039.2913	1.48478922
Los Angeles	2027 UBUS	Aggregate	Aggregate	Gasoli	477.7813025	34572.05517	1911.1252	7.10374471
Los Angeles	2027 T7 SWCV	Aggregate	Aggregate	Natur:	3441.521412	140215.5625	13421.934	57.6325098
Los Angeles	2027 UBUS	Aggregate	Aggregate	Natur:	4333.221624	460233.9391	17332.886	117.099046

	VMT Sum	Fuel Sum	Fuel Sum/Year
Diesel	20873654.2	1767.593943	645,171,789
Gas	264748608.7	9026.14509	3,294,542,958
			3,939,714,747

Table 1. On road Vehicles - Operational

Scenario	Annual VMT	Fuel Consumption (Gallons)		
		Gasoline	Diesel	Total
2045 (Future) Non-Event w/out ITC	1,369,204,193	35,403,386	8,376,945	43,780,331
2045 (Future) Non-Event w/ ITC	1,351,035,367	34,933,597	8,265,786	43,199,383
2045 (Future) Event w/out ITC	1,469,905,139	38,007,201	8,993,045	47,000,246
2045 (Future) Event w/ ITC	1,426,761,804	36,891,648	8,729,089	45,620,737

Table 2. Fuel Consumption Summary

Fuel	Fuel Efficiency (MPG)	%Fleet
Gasoline	35.3	91.2%
Diesel	14.4	8.8%

Notes:

Percent fleet based on VMT from EMFAC2017 as shown in **Table 3: EMFAC2017 Emissions Inventory-Operations**

Annual VMT obtained from Project's Traffic Study

Fuel efficiency based on calculations in **Table 3: EMFAC2017 Emissions Inventory-Operations**, from EMFAC2017.

Table 3. EMFAC2017 Emissions Inventory - Operations

Fuel	VMT (miles/day)	Fuel Consumption (1,000 gal/day)	Fuel Efficiency (miles per gallon)	Fuel Percentage
GAS	270,481,007	7,669	35.3	91.2
DSL	26,050,423	1,811	14.4	8.8

Note: Fuel percentage based on VMT.

Fuel efficiency calculated using fuel consumption and VMT from EMFAC2017.

Buildout

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2045

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HTSK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption
Los Angeles	2045	All Other Buses	Aggregate	Aggregate	Diesel	4160.446695	217622.7163	34947.752	17.1112367
Los Angeles	2045	LDA	Aggregate	Aggregate	Diesel	58620.54216	1871522.657	276646.85	30.4461662
Los Angeles	2045	LDT1	Aggregate	Aggregate	Diesel	99.01748743	2948.130769	449.65056	0.09306953
Los Angeles	2045	LDT2	Aggregate	Aggregate	Diesel	18888.93099	592209.7663	88558.648	12.8189248
Los Angeles	2045	LHD1	Aggregate	Aggregate	Diesel	143747.3637	4419777.453	1808161	166.071204
Los Angeles	2045	LHD2	Aggregate	Aggregate	Diesel	58478.77848	1731691.395	735589.47	72.3826014
Los Angeles	2045	MDV	Aggregate	Aggregate	Diesel	42211.98811	1247535.498	196887.72	34.8459151
Los Angeles	2045	MH	Aggregate	Aggregate	Diesel	11462.39772	91376.82184	1146.2398	7.12686895
Los Angeles	2045	Motor Coach	Aggregate	Aggregate	Diesel	985.931923	123212.6205	14394.606	14.6194559
Los Angeles	2045	PTO	Aggregate	Aggregate	Diesel	0	96559.54668	0	14.5151294
Los Angeles	2045	SBUS	Aggregate	Aggregate	Diesel	4551.398088	144413.8002	52522.503	13.8175228
Los Angeles	2045	T6 Ag	Aggregate	Aggregate	Diesel	5.488105617	4.523188915	24.147665	0.00083426
Los Angeles	2045	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	545.8363808	89064.85254	7969.2112	5.83351066
Los Angeles	2045	T6 CAIRP small	Aggregate	Aggregate	Diesel	301.5507018	12674.06432	4402.6402	0.93088368
Los Angeles	2045	T6 instate construc	Aggregate	Aggregate	Diesel	2307.374395	154488.997	10431.55	12.1478781
Los Angeles	2045	T6 instate construc	Aggregate	Aggregate	Diesel	8410.459373	415909.0141	38023.36	30.8719481
Los Angeles	2045	T6 instate heavy	Aggregate	Aggregate	Diesel	21369.45158	2132030.517	246600.51	147.752507
Los Angeles	2045	T6 instate small	Aggregate	Aggregate	Diesel	62538.96006	2799610.732	721690.93	208.014273
Los Angeles	2045	T6 OOS heavy	Aggregate	Aggregate	Diesel	315.4744926	51828.14664	4605.9276	3.39348449
Los Angeles	2045	T6 OOS small	Aggregate	Aggregate	Diesel	173.5312419	7187.232024	2533.5561	0.52904548

Los Angeles	2045 T6 Public	Aggregate	Aggregate	Diesel	5594.801474	86866.578	16970.898	7.93605794
Los Angeles	2045 T6 utility	Aggregate	Aggregate	Diesel	1208.402646	20134.26458	13896.63	1.61731244
Los Angeles	2045 T7 CAIRP	Aggregate	Aggregate	Diesel	7211.501205	1500409.665	105287.92	148.602327
Los Angeles	2045 T7 CAIRP construct	Aggregate	Aggregate	Diesel	635.4569327	110970.7885	2872.8761	11.2500083
Los Angeles	2045 T7 NNOOS	Aggregate	Aggregate	Diesel	11226.27016	1828916.252	163903.54	191.055854
Los Angeles	2045 T7 NOOS	Aggregate	Aggregate	Diesel	2865.834749	589562.0706	41841.187	59.8004655
Los Angeles	2045 T7 POLA	Aggregate	Aggregate	Diesel	12028.61716	2507404.939	91417.49	274.452297
Los Angeles	2045 T7 Public	Aggregate	Aggregate	Diesel	6562.655557	132956.4921	19906.722	15.8905217
Los Angeles	2045 T7 Single	Aggregate	Aggregate	Diesel	6089.311924	486293.1777	70269.815	53.9743069
Los Angeles	2045 T7 single constructi	Aggregate	Aggregate	Diesel	3609.153513	275298.1155	16316.843	29.9352598
Los Angeles	2045 T7 SWCV	Aggregate	Aggregate	Diesel	98.00302906	4002.963247	382.21181	1.83646651
Los Angeles	2045 T7 tractor	Aggregate	Aggregate	Diesel	16613.44806	2069084.855	210990.79	196.113434
Los Angeles	2045 T7 tractor construc	Aggregate	Aggregate	Diesel	3059.37014	227096.7078	13831.293	24.2397542
Los Angeles	2045 T7 utility	Aggregate	Aggregate	Diesel	481.2637037	9757.956806	5534.5326	1.10323878
Los Angeles	2045 UBUS	Aggregate	Aggregate	Diesel	0	0	0	0
Los Angeles	2045 LDA	Aggregate	Aggregate	Electri	310027.7052	10073972.23	1469713.1	0
Los Angeles	2045 LDT1	Aggregate	Aggregate	Electri	26549.24356	825890.5826	124055.08	0
Los Angeles	2045 LDT2	Aggregate	Aggregate	Electri	84454.45584	1869730.253	398476.59	0
Los Angeles	2045 MDV	Aggregate	Aggregate	Electri	62154.10603	1367053.685	292578.12	0
Los Angeles	2045 LDA	Aggregate	Aggregate	Gasoli	4751020.081	150405108.3	22333884	3673.21739
Los Angeles	2045 LDT1	Aggregate	Aggregate	Gasoli	688085.8398	20759661.39	3158780.6	588.690603
Los Angeles	2045 LDT2	Aggregate	Aggregate	Gasoli	1843259.518	57318729.87	8590032.6	1606.41169
Los Angeles	2045 LHD1	Aggregate	Aggregate	Gasoli	121193.9758	3810879.099	1805609.7	296.87249
Los Angeles	2045 LHD2	Aggregate	Aggregate	Gasoli	22324.8176	672125.3068	332606.52	60.1296775
Los Angeles	2045 MCY	Aggregate	Aggregate	Gasoli	295582.3083	1523709.895	591164.62	43.7533169
Los Angeles	2045 MDV	Aggregate	Aggregate	Gasoli	1182417.529	34574043.71	5466805.9	1182.57773
Los Angeles	2045 MH	Aggregate	Aggregate	Gasoli	23767.40038	209666.0345	2377.6907	32.8323914
Los Angeles	2045 OBUS	Aggregate	Aggregate	Gasoli	4282.060074	145896.4647	85675.458	23.218056
Los Angeles	2045 SBUS	Aggregate	Aggregate	Gasoli	3270.931289	111935.2572	13083.725	10.0198137
Los Angeles	2045 T6TS	Aggregate	Aggregate	Gasoli	18881.31426	902721.2629	377777.34	142.413548
Los Angeles	2045 T7IS	Aggregate	Aggregate	Gasoli	73.41229088	8391.910547	1468.8331	1.53007778
Los Angeles	2045 UBUS	Aggregate	Aggregate	Gasoli	527.5566572	38138.55255	2110.2266	6.97617863
Los Angeles	2045 T7 SWCV	Aggregate	Aggregate	Natur:	5137.471294	209465.5453	20036.138	71.458606
Los Angeles	2045 UBUS	Aggregate	Aggregate	Natur:	4802.397532	509885.2599	19209.59	129.642675

	VMT Sum	Fuel Sum	Fuel Sum/Year
Diesel	26050423.31	1811.129763	661,062,364
Gas	270481007	7668.642963	2,799,054,682
			3,460,117,045

Vons Store Replacement Energy Calculations

Table 1. Summary of Energy Use During Construction

Fuel Type	Quantity
Diesel	
Off-Road Construction Equipment	19,164 Gallons
On-Road Motor Vehicles	6,903 Gallons
Total	26,067 Gallons
Gasoline	
Off-Road Construction Equipment	0 Gallons
On-Road Motor Vehicles	4,670 Gallons
Total	4,670 Gallons

Table 2. Summary of Annual Energy Use During Operation		
Source	Units	Buildout
Electricity		
Supermarket	kWh/yr	1,637,250
Parking	kWh/yr	28,700
Water Conveyance	kWh/yr	76,441
<i>Total Electricity</i>	<i>kWh/yr</i>	<i>1,742,391</i>
Natural Gas		
Supermarket	kBTU/yr	953,520
<i>Total Natural Gas</i>	<i>kBTU/yr</i>	<i>953,520</i>

Table 3. Water by Land Use				
Land Use	Units	Project		
		Indoor/Outdoor Use	Indoor Use	Outdoor Use
Buildout	Mgal	5.71965 / 0.176896	5.71965	0.176896

Water and Wastewater Electricity Intensity (kWh/gallon)

Supply Water	0.009727
Treat Water	0.000111
Distribute Water	0.001272
Wastewater Treatment	0.001911

Source: CalEEMod User's Guide, Appendix D

Indoor Water Factor	0.013021 kWh/gallon (supply, treat, distribute, wastewater treatment)
Outdoor Water Factor	0.01111 kWh/gallon (supply, treat, and distribute)

Table 4. Off-Road Equipment Fuel Usage During Construction

Phase Name	Off-road Equipment Type	Amount	Hours per Day	Horsepower	Load Factor	Number of Days	Diesel Fuel Usage
							(Gallons per Project)
Building Construction	Cranes	1	8	231	0.29	169	4,529
Building Construction	Forklifts	2	7	89	0.2	169	2,106
Building Construction	Generator Sets	1	8	84	0.74	169	4,202
Building Construction	Tractors/Loaders/Backhoes	1	6	97	0.37	169	1,820
Building Construction	Welders	3	8	46	0.45	169	4,198
Paving	Cement and Mortar Mixers	1	8	9	0.56	22	44
Paving	Pavers	1	8	130	0.42	22	480
Paving	Paving Equipment	1	8	132	0.36	22	418
Paving	Rollers	2	8	80	0.38	22	535
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37	22	316
Architectural Coating	Air Compressors	1	6	78	0.48	46	517
Total							19,164

Notes:

Equipment assumptions from CalEEMod.

Fuel usage estimate of 0.05 gallons per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3 E.

Table 5. On-Road Vehicle Fuel Usage During Construction

Sub Area 1	Days	Daily Trips		Total			Trip Length (Miles)			Total Length (Miles)			Fuel Consumption (Gallons)	
		Worker	Vendor	Worker Trips	Vendor Trips	Haul Trips	Worker	Vendor	Hauling	Worker	Vendor	Hauling	Gasoline	Diesel
Building Construction	169	49	21	8,281	3,549	0	14.7	6.9	20	121,731	24,488	0	4,263	6,603
Architectural Coating	46	10	0	460	0	0	14.7	6.9	20	6,762	0	0	237	174
Paving	22	15	0	330	0	0	14.7	6.9	20	4,851	0	0	170	125
Total	237	74	21	9,071	3,549	0	n/a	n/a	n/a	133,344	24,488	0	4,670	6,903

Fuel Efficiency	Gas	DSL
Workers	28.55	38.77
Vendor/Haul Trucks	0	7.07

Notes:
 Fuel efficiency calculated in **Table 6: EMFAC2017 Results - Construction.**

Table 6. EMFAC2017 Results - Construction								
Vehicle Class	Fuel	VMT (miles per day)	Fuel (1,000 gal per day)	Fuel Efficiency (miles per gallon)	Fuel	VMT (miles per day)	Fuel (1,000 gal per day)	Fuel Efficiency (miles per gallon)
LDA	GAS	153,812,692	4,943.66	31.11	DSL	1,468,847	30.23	48.59
LDT1	GAS	17,733,494	661.89	26.79	DSL	6,251	0.28	22.12
LDT2	GAS	53,205,335	2,111.84	25.19	DSL	410,652	11.48	35.77
Average (LDA, LDT1, LDT2)				28.55				38.77
T7 Tractor Construction	DSL	253,443	35.84	7.07				

Construction Worker Fleet Mix

LDA	50%
LDT1	25%
LDT2	25%

Vendor and Delivery/Haul Truck Fleet Mix

HHDT	100%
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Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdYr	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption
LOS ANGELES	2023	LDA	Aggregate	Aggregate	Gasoline	4079718.343	153812691.8	19249547.07	4943.660073
LOS ANGELES	2023	LDA	Aggregate	Aggregate	Diesel	37620.08952	1468847.201	178324.7106	30.23068474
LOS ANGELES	2023	LDA	Aggregate	Aggregate	Electricity	93246.42895	3877173.285	464969.6401	0
LOS ANGELES	2023	LDT1	Aggregate	Aggregate	Gasoline	480759.8328	17733493.57	2225422.937	661.8900744
LOS ANGELES	2023	LDT1	Aggregate	Aggregate	Diesel	257.6434833	6250.546569	911.0447198	0.282612153
LOS ANGELES	2023	LDT1	Aggregate	Aggregate	Electricity	4694.098206	199559.1454	23532.52193	0
LOS ANGELES	2023	LDT2	Aggregate	Aggregate	Gasoline	1420577.957	53205335.05	6674512.78	2111.835151
LOS ANGELES	2023	LDT2	Aggregate	Aggregate	Diesel	9886.840992	410652.3194	48611.0055	11.47875608
LOS ANGELES	2023	T7 tractor constr	Aggregate	Aggregate	Diesel	3720.516306	253442.7111	16820.30957	35.83999783
									7795.217349
									7795217.349
			Gas	7717.385298	7717385.298	2816845634	35,378,625.00	2,845,254,332.38	
			Diesel	77.83205081	77832.05081	28408698.54	10,548,851.00		
									45,927,476.00