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June 2, 2020

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**RE: Energy Use and Conservation Riverside and Lincoln Commercial Development
City of Lake Elsinore, CA**

This analysis evaluates both construction and operational energy efficiency as it relates to non-renewable fuel sources including Electrical, Natural Gas, Diesel and Gasoline. This effort was prepared according to requirements established within Public Resource Code (PRC) Section 21100(b)(3) and California Environmental Quality Act (CEQA) Guidelines Section 15126.4. The intent is to adequately address the following CEQA questions:

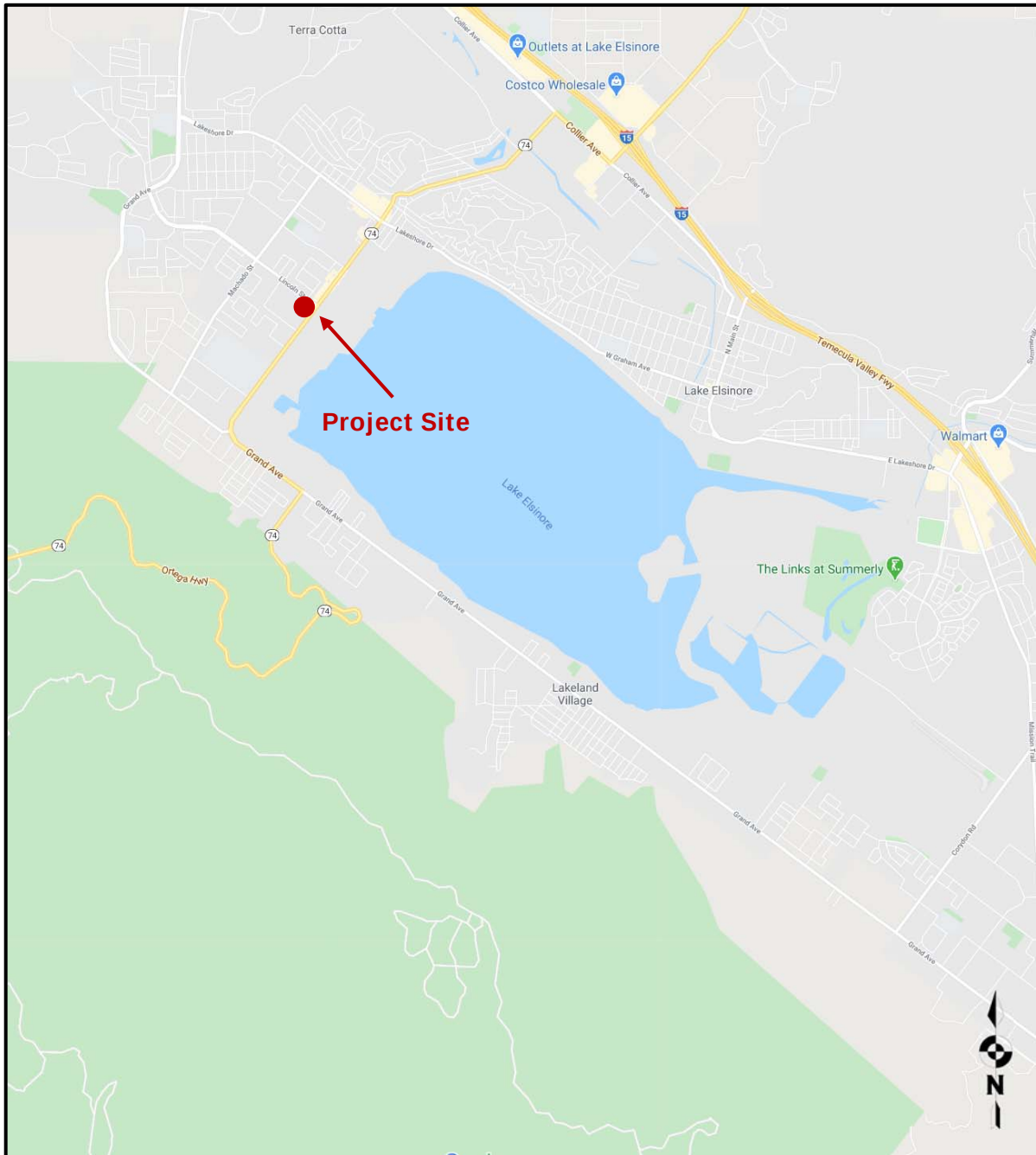
Would the Project:

- 1. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*
- 2. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

Project Description

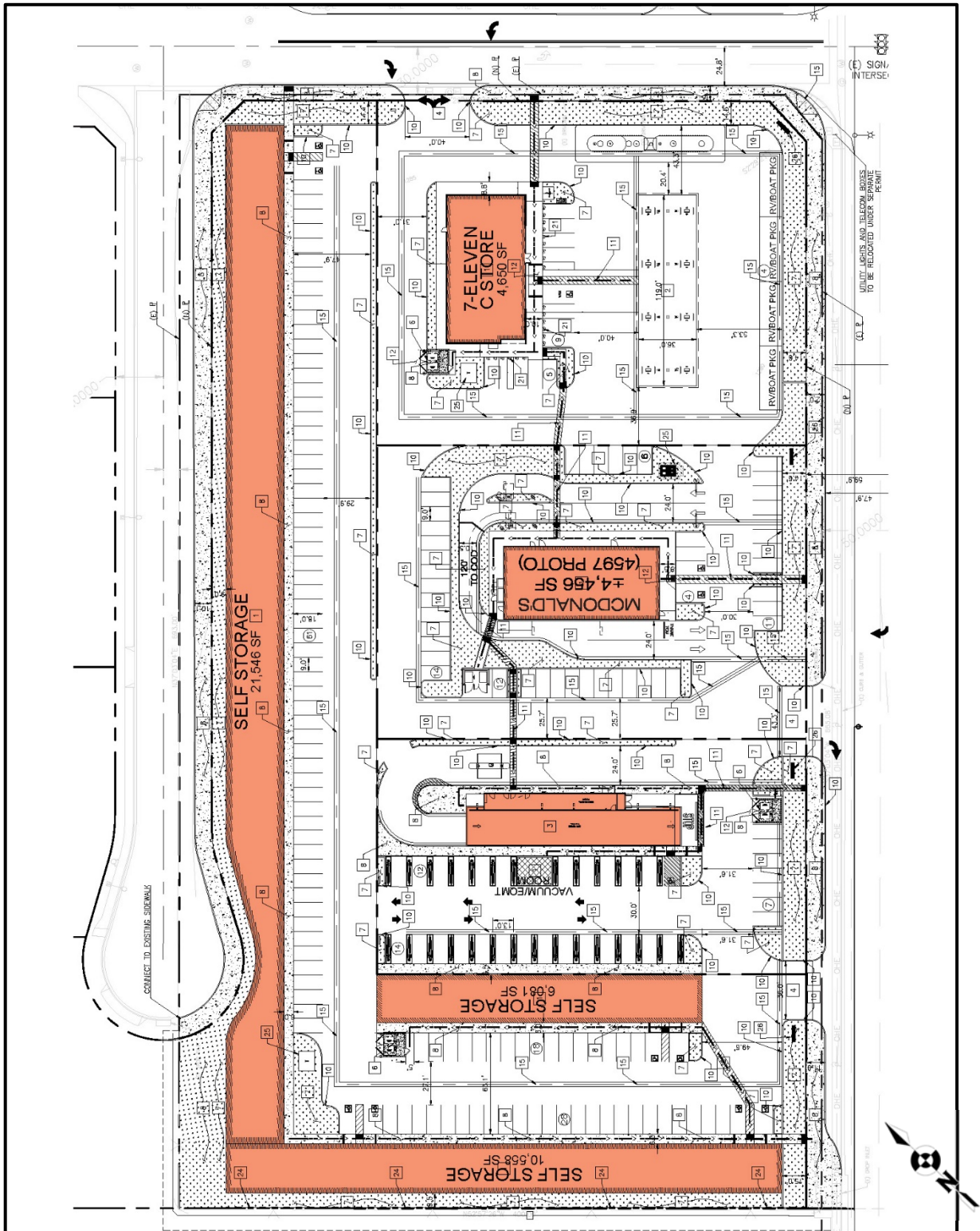
The 5.86-acre Project site is located northwest corner of Lincoln Street and Riverside Drive in the City of Lake Elsinore, California and is shown in Figure 1. The Project proposes to construct 39,463 square feet of self-storage, 4,456 square feet of fast-food restaurant with drive-thru, a 16 fueling position super convenience market/gas station, and an automated car wash. Construction would begin early 2021 and be completed roughly 13 months later. A site development plan is shown in Figure 2.

Figure 1: Project Vicinity Map



Source: (Google, 2020)

Figure 2: Site Plan Map



Source: (Golchek Group, 2019)

Construction

Energy usage for construction equipment is best estimated using total horsepower hours and an assumed thermal efficiency of 30%. The most common measure of the energy efficiency of a tractor is referred to here as “specific volumetric fuel consumption” (SVFC), which is given in units of gallons per horsepower-hour (gal/hp-h). SVFC for diesel engines typically ranges from 0.0476 to 0.1110 gal/hp-h. Inverting these numbers yields a range of between 12-21 hp-h/gal. Over the last 30 years, fuel efficiency at maximum power has increased from roughly 14.5 to 16.5 hp-h/gal (VirginiaTech, 2010).

Project construction dates were estimated based on an estimated construction kickoff starting in early 2021 and be completed roughly 13 months later. Based on the equipment, quantity, work time, Horsepower (hp), the Project would require a total of 668,925.80 hp-h. Based on this, the Project would consume roughly 40,541 gallons of diesel during construction as can be seen in Table 1. It should be noted that fuel consumption would go up if diesel construction equipment is poorly maintained. Based on this, the Project shall properly maintain all equipment per manufacture recommendations.

Table 1: Expected Construction Equipment

Equipment Identification	Days	Hours	HP	Load Factor	Quantity	Horsepower Hours
Site Preparation	10					
Rubber Tired Dozers		8	247	0.4	3	23,712.00
Tractors/Loaders/Backhoes		8	97	0.37	4	11,484.80
Grading	20					
Excavators		8	158	0.38	1	9,606.40
Graders		8	187	0.41	1	12,267.20
Rubber Tired Dozers		8	247	0.4	1	15,808.00
Tractors/Loaders/Backhoes		8	97	0.37	3	17,227.20
Paving	20					
Pavers		8	130	0.42	2	17,472.00
Paving Equipment		8	132	0.36	2	15,206.40
Rollers		8	80	0.38	2	9,728.00
Building Construction	230					
Cranes		7	231	0.29	1	107,853.90
Forklifts		8	89	0.2	3	98,256.00
Generator Sets		8	84	0.74	1	114,374.40
Tractors/Loaders/Backhoes		7	97	0.37	3	173,348.70
Welders		8	46	0.45	1	38,088.00
Architectural Coating	20					
Air Compressors		6	78	0.48	1	4,492.80
Total Horsepower Hours						668,925.80
Total Diesel Fuel (Gal) @ 16.5 hp-h/gal						40,541
Construction Lists identified within CalEEMod Attachment A to this report which was used for the Project GHG analysis						

Construction emissions from workers vendors and hauling are based on the estimated vehicle miles traveled (VMT) for the total construction duration within CalEEMod which is 218,577 miles total. Fuel consumption for these vehicles was estimated using the aggregate average fuel efficiency for 2022 (the Project's operational year) using EMFAC2017 model which is 22 miles per gallon as shown in **Attachment B** to this report. Based on this, the vehicular trips would consume roughly 9,935 gallons during construction.

On-road vehicles are regulated by state and federal regulations and vehicular fleet efficiencies are getting better each year. Additionally, all construction equipment shall be maintained as needed per manufactures recommendations. Based on this, the short-term energy demand during construction of the Project and would not result in a wasteful or inefficient use of energy.

Operations

Energy – Utility Demand

The State of California has implemented a number of energy reducing policies largely geared to reducing Greenhouse gasses (GHGs). The most notable is Assembly Bill (AB) 32 which was signed in 2006. Since then, the state has implemented two scoping plan updates which are geared to reduce GHG emissions by reducing energy consumption, increasing energy efficiency and increasing the usage of renewable sources. The state has also taken a strong steps in increasing building efficiencies under Title 24, par 6 of California's Code of Regulations.

The current Title 24 building energy efficiency standards are (2019) which became effective January 1, 2020. In general, non-residential buildings built to the 2019 standards will use roughly 30 percent less energy than those built to the 2016 standards (CEC, 2019).

In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as CALGreen and establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all ground-up, new construction of commercial, low-rise residential and state-owned buildings and schools and hospitals. The latest updates to CALGreen became effective on January 1, 2020.

The CALGreen standards for non-residential uses include mandatory measures for planning, water and conservation efficiency as well as Environmental Quality. The new requirements have Electric Vehicle (EV) Charging requirements and Light Pollution Reduction requirements for exterior lighting (CBSC, 2019). Based on CalGreen 2019, the project would be required to provide EV charges at 6% of the parking areas.

Furthermore, the state has implemented a number of regulations which force electrical utility providers to increase renewable portfolios or procurement. Specifically, the following policies are noted:

SB 1078 (2002) established the Renewables Portfolio Standard (RPS) program, which requires an annual increase in renewable generation by the utilities equivalent to at least 1 percent of sales, with an aggregate goal of 20 percent by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20 percent of their power from renewable sources by 2010.

SB X1-2 (2011) expanded the RPS by establishing that 20 percent of the total electricity sold to retail customers in California per year by December 31, 2013, and 33 percent by December 31, 2020, and in subsequent years be secured from qualifying renewable energy sources. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation of 30 megawatts or less, digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location. In addition to the retail sellers previously covered by the RPS, SB X1-2 added local, publicly owned electric utilities to the RPS.

SB 350 (2015) further expanded the RPS by establishing that 50 percent of the total electricity sold to retail customers in California per year by December 31, 2030 be secured from qualifying renewable energy sources. In addition, SB 350 includes the goal to double the energy efficiency savings in electricity and natural gas final end uses (such as heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency.

SB 100 (2018) has further accelerated and expanded the RPS, requiring achievement of a 50 percent RPS by December 31, 2026 and a 60 percent RPS by December 31, 2030. SB 100 also established a new statewide policy goal that calls for eligible renewable energy resources and zero-carbon resources to supply 100 percent of electricity retail sales and 100 percent of electricity procured to serve all state agencies by December 31, 2045.

Based on the Project GHG analysis, the Project would on average consume 1,320,119.54 kilo British Thermal Units (kBtu) of natural Gas and 386,988.60 kilowatt hours (kWh) of electricity each year. Under that analysis, reductions from Title 24 (2019) and RPS were not accounted for which would improve the efficiency of the Project in terms of energy consumption. Based on this, electricity use associated with Project operation would not result in wasteful, inefficient, or an unnecessary use of energy. As noted earlier in this analysis the CalEEMod 2016.3.2 estimation tool output is provided as **Attachment A** to this letter.

The City of Lake Elsinore receives natural gas from the Southern California Gas Company (The Gas Company) and Electricity from Southern California Edison. Both the Gas Company and Southern California Edison anticipate the ability to accommodate future growth within the City of Lake Elsinore. Development proposals would be required to formally request "Will Serve" letters on an individual basis (City of Lake Elsinore, 2011). The project would coordinate and obtain "Will Serve" letters from each utility company as required by the City's General Plan. Based on

this, the project would not be expected to generate local impacts based on proposed utility demand

Energy – Operational Vehicular Usage

The Project would also utilize energy from burning fuel from operational vehicles. Based on the Project traffic study, the proposed Project would generate 7,783 trips not including internal capture and pass by reductions (GANDDINI GROUP, 2020). CalEEMod was updated to reflect these trips.

Additionally, it should be noted that the Traffic Analysis indicated that projects such as these would shorten existing regional trips within the area since the Project would serving the heavily residential areas in the Lake View and Lake View Sphere Districts which currently travel further distances for proposed uses (GANDDINI GROUP, 2020). CalEEMod was adjusted to reflect vehicle miles traveled (VMT) from these residential areas. Based on CalEEMod, the Project would generate roughly 2.2 million VMT per year which as noted by the traffic engineer would be a reduction of VMT to the regional area.

Fuel consumption for these vehicles was estimated using the aggregate average fuel efficiency for 2022 (the Project's operational year) using EMFAC2017 model which is 22 miles per gallon. Given this, the project would require 100,000 gallons of fuel.

Energy efficiency for vehicles is also mandated by State specific policies geared to reduce GHG emissions using zero-emission vehicles. These policies are:

Executive Order (EO) B-16-12

In March 2012 EO B-16-12 directs state entities under the Governor's direction and control to support and facilitate development and distribution of Zero Emission Vehicles (ZEVs). This EO also sets a long-term target of reaching 1.5 million zero-emission vehicles on California's roadways by 2025. On a statewide basis, EO B-16-12 also establishes a GHG emissions reduction target from the transportation sector equaling 80 percent less than 1990 levels by 2050. In furtherance of this EO, the Governor convened an Interagency Working Group on Zero-Emission Vehicles that has published multiple reports regarding the progress made on the penetration of ZEVs in the statewide vehicle fleet.

California Senate Bill 350

In 2015, SB 350 – the Clean Energy and Pollution Reduction Act – was enacted into law. As one of its elements, SB 350 establishes a statewide policy for widespread electrification of the transportation sector, recognizing that such electrification is required for achievement of the state's 2030 and 2050 reduction targets (see Public Utilities Code Section 740.12).

The Project will be required to install electric vehicle charging stations for at least 6% of all onsite parking spaces per CalGreen 2019 requirements. This is consistent with SB 350 and would allow employees and customers to utilize EV charging.

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These regulations ultimately are geared to reduce GHG emissions by powering vehicles by electric sources. These sources do produce offsite emissions from electric utility companies and consume electrical energy though the efficiencies of electricity production are much higher than standard gasoline or diesel-powered vehicles.

Based on this, the long-term energy demand during operations of the Project would not result in a wasteful or inefficient use of energy. As renewable portfolios increase and as electric vehicle operations become more standardized, energy consumptions and efficiency will decrease. Given this, a less than significant impact under CEQA with respect to Energy Waste is expected and the Project would not result in a wasteful or inefficient use of energy. Furthermore, the Project would not conflict with or obstruct the State's or Local plans for renewable energy or energy efficiency.

Sincerely Ldn Consulting,



Jeremy Loudon

Attachment A: (CalEEMod 2016.3.2 outputs)

Attachment B: EMFAC 2017 (2022)

References:

- CBSC. (2019). *CALGreen Updates - NONRESIDENTIAL MANDATORY MEASURES*. Retrieved from <https://www.dgs.ca.gov/-/media/Divisions/BSC/05-Resources/CALGreen/CALGreen-Updates-Handout-ACC-08-19.pdf?la=en&hash=2E2AC87E11E43892FBE44D5501656E386DDAD19C>
- CEC. (2019). *2019 Impact Analysis Final Report*. Retrieved from https://ww2.energy.ca.gov/title24/2019standards/post_adoption/
- City of Lake Elsinore. (2011). *GENERAL PLAN - CERTIFIED RECIRCULATED ROGRAM ENVIRONMENTAL IMPACT REPORT*. Retrieved from <http://www.lake-elsinore.org/city-hall/city-departments/community-development/planning/lake-elsinore-general-plan/general-plan-certified-eir>
- GANDDINI GROUP, I. (2020). *RIVERSIDE AT LINCOLN RETAIL TRAFFIC IMPACT ANALYSIS*.
- VirginiaTech. (2010). *Predicting Tractor Diesel Fuel Consumption*. Retrieved from <https://pdfs.semanticscholar.org/2631/d1ae4f63bcf1b067e69804f904968f318571.pdf>

Riverside at Lincoln Retail - Riverside-South Coast County, Annual

Riverside at Lincoln Retail

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	39.50	1000sqft	2.50	39,500.00	0
User Defined Industrial	1.00	User Defined Unit	0.50	2,000.00	0
Parking Lot	188.00	Space	1.69	75,200.00	0
Fast Food Restaurant with Drive Thru	4.50	1000sqft	0.50	4,500.00	0
Convenience Market With Gas Pumps	16.00	Pump	0.71	2,258.80	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - 5.9 acre; user defined industrial for Carwash

Construction Phase -

Vehicle Trips - Per TS. Project would service nearby developments per TS

Construction Off-road Equipment Mitigation - T4

Architectural Coating -

Fleet Mix - Carwash to service LDA and LDT1 vehicles

Area Coating -

Energy Use - Carwash assumed to have same energy as Convenience Market with Gas Pumps

Table Name	Column Name	Default Value	New Value
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tblEnergyUse	T24NG	0.00	1.92
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.60

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tblFleetMix	LDT1	0.04	0.40
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
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2.0 Emissions Summary

Riverside at Lincoln Retail - Riverside-South Coast County, Annual

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					
2021	0.2864	2.6218	2.3698	4.6400e-003	0.2323	0.1300	0.3623	0.1039	0.1217	0.2256	0.0000	408.3128	408.3128	0.0841	0.0000	410.4149
2022	0.2561	0.1894	0.2028	4.1000e-004	7.9700e-003	8.9800e-003	0.0169	2.1400e-003	8.4900e-003	0.0106	0.0000	35.7874	35.7874	6.1800e-003	0.0000	35.9420
Maximum	0.2864	2.6218	2.3698	4.6400e-003	0.2323	0.1300	0.3623	0.1039	0.1217	0.2256	0.0000	408.3128	408.3128	0.0841	0.0000	410.4149

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0750	0.4850	2.5067	4.6400e-003	0.1465	1.5700e-003	0.1481	0.0581	1.5200e-003	0.0596	0.0000	408.3124	408.3124	0.0841	0.0000	410.4145
2022	0.2406	0.0428	0.2140	4.1000e-004	7.9700e-003	1.4000e-004	8.1000e-003	2.1400e-003	1.3000e-004	2.2800e-003	0.0000	35.7874	35.7874	6.1800e-003	0.0000	35.9419
Maximum	0.2406	0.4850	2.5067	4.6400e-003	0.1465	1.5700e-003	0.1481	0.0581	1.5200e-003	0.0596	0.0000	408.3124	408.3124	0.0841	0.0000	410.4145

	ROG	NOx	CO	SO2	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	41.81	81.22	-5.75	0.00	35.68	98.77	58.81	43.21	98.73	73.79	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2021	3-31-2021	0.7856	0.0846
2	4-1-2021	6-30-2021	0.7023	0.1573
3	7-1-2021	9-30-2021	0.7100	0.1590
4	10-1-2021	12-31-2021	0.7096	0.1586
5	1-1-2022	3-31-2022	0.4454	0.2833
		Highest	0.7856	0.2833

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	0.2030	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1800e-003	6.1800e-003	2.0000e-005	0.0000	6.5900e-003
Energy	7.1200e-003	0.0647	0.0544	3.9000e-004		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	193.7495	193.7495	6.4400e-003	2.3400e-003	194.6092
Mobile	1.5986	8.9401	7.6446	0.0210	0.8390	0.0153	0.8544	0.2244	0.0143	0.2386	0.0000	1,964.4223	1,964.4223	0.2628	0.0000	1,970.9926
Waste						0.0000	0.0000		0.0000	0.0000	18.0601	0.0000	18.0601	1.0673	0.0000	44.7432
Water						0.0000	0.0000		0.0000	0.0000	3.3843	44.9290	48.3134	0.3495	8.5900e-003	59.6101
Total	1.8087	9.0049	7.7021	0.0214	0.8390	0.0203	0.8593	0.2244	0.0192	0.2436	21.4444	2,203.1069	2,224.5514	1.6861	0.0109	2,269.9617

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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	0.2030	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1800e-003	6.1800e-003	2.0000e-005	0.0000	6.5900e-003
Energy	7.1200e-003	0.0647	0.0544	3.9000e-004		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	193.7495	193.7495	6.4400e-003	2.3400e-003	194.6092
Mobile	1.5986	8.9401	7.6446	0.0210	0.8390	0.0153	0.8544	0.2244	0.0143	0.2386	0.0000	1,964.4223	1,964.4223	0.2628	0.0000	1,970.9926
Waste						0.0000	0.0000		0.0000	0.0000	18.0601	0.0000	18.0601	1.0673	0.0000	44.7432
Water						0.0000	0.0000		0.0000	0.0000	3.3843	44.9290	48.3134	0.3495	8.5900e-003	59.6101
Total	1.8087	9.0049	7.7021	0.0214	0.8390	0.0203	0.8593	0.2244	0.0192	0.2436	21.4444	2,203.1069	2,224.5514	1.6861	0.0109	2,269.9617

	ROG	NOx	CO	SO2	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2021	1/14/2021	5	10	
2	Grading	Grading	1/15/2021	2/11/2021	5	20	
3	Paving	Paving	2/12/2021	3/11/2021	5	20	
4	Building Construction	Building Construction	3/13/2021	1/28/2022	5	230	
5	Architectural Coating	Architectural Coating	1/1/2022	1/28/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.69

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 72,388; Non-Residential Outdoor: 24,129; Striped Parking Area: 4,512 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
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
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
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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	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
Building Construction	9	51.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	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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Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	0.0194	0.2025	0.1058	1.9000e-004	0.0903	0.0102	0.1006	0.0497	9.4000e-003	0.0591	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530

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3.2 Site Preparation - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004
Total	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004

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					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	2.3300e-003	0.0101	0.1043	1.9000e-004	0.0407	5.0000e-005	0.0407	0.0223	5.0000e-005	0.0224	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530

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3.2 Site Preparation - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004
Total	3.9000e-004	2.6000e-004	2.8300e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8000	0.8000	2.0000e-005	0.0000	0.8004

3.3 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644
Total	0.0229	0.2474	0.1586	3.0000e-004	0.0655	0.0116	0.0771	0.0337	0.0107	0.0443	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644

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3.3 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.3000e-004	4.7200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3333	1.3333	3.0000e-005	0.0000	1.3341
Total	6.4000e-004	4.3000e-004	4.7200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3333	1.3333	3.0000e-005	0.0000	1.3341

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					0.0295	0.0000	0.0295	0.0152	0.0000	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6300e-003	0.0157	0.1775	3.0000e-004		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643
Total	3.6300e-003	0.0157	0.1775	3.0000e-004	0.0295	7.0000e-005	0.0296	0.0152	7.0000e-005	0.0152	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643

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3.3 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.3000e-004	4.7200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3333	1.3333	3.0000e-005	0.0000	1.3341
Total	6.4000e-004	4.3000e-004	4.7200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3333	1.3333	3.0000e-005	0.0000	1.3341

3.4 Paving - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0126	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	2.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0148	0.1292	0.1465	2.3000e-004		6.7800e-003	6.7800e-003		6.2400e-003	6.2400e-003	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.4 Paving - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.3000e-004	4.7200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3333	1.3333	3.0000e-005	0.0000	1.3341
Total	6.4000e-004	4.3000e-004	4.7200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3333	1.3333	3.0000e-005	0.0000	1.3341

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	2.8000e-003	0.0122	0.1730	2.3000e-004		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854
Paving	2.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.0100e-003	0.0122	0.1730	2.3000e-004		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	20.0235	20.0235	6.4800e-003	0.0000	20.1854

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3.4 Paving - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.3000e-004	4.7200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3333	1.3333	3.0000e-005	0.0000	1.3341
Total	6.4000e-004	4.3000e-004	4.7200e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3333	1.3333	3.0000e-005	0.0000	1.3341

3.5 Building Construction - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1996	1.8304	1.7404	2.8300e-003		0.1007	0.1007		0.0946	0.0946	0.0000	243.2191	243.2191	0.0587	0.0000	244.6861
Total	0.1996	1.8304	1.7404	2.8300e-003		0.1007	0.1007		0.0946	0.0946	0.0000	243.2191	243.2191	0.0587	0.0000	244.6861

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3.5 Building Construction - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.0100e-003	0.1958	0.0377	5.4000e-004	0.0133	3.7000e-004	0.0136	3.8300e-003	3.6000e-004	4.1800e-003	0.0000	51.2344	51.2344	3.9100e-003	0.0000	51.3321
Worker	0.0230	0.0155	0.1686	5.3000e-004	0.0589	3.5000e-004	0.0592	0.0156	3.2000e-004	0.0160	0.0000	47.5977	47.5977	1.1100e-003	0.0000	47.6254
Total	0.0280	0.2113	0.2063	1.0700e-003	0.0721	7.2000e-004	0.0729	0.0195	6.8000e-004	0.0201	0.0000	98.8321	98.8321	5.0200e-003	0.0000	98.9575

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	0.0344	0.2346	1.8333	2.8300e-003		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	243.2189	243.2189	0.0587	0.0000	244.6858
Total	0.0344	0.2346	1.8333	2.8300e-003		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	243.2189	243.2189	0.0587	0.0000	244.6858

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3.5 Building Construction - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.0100e-003	0.1958	0.0377	5.4000e-004	0.0133	3.7000e-004	0.0136	3.8300e-003	3.6000e-004	4.1800e-003	0.0000	51.2344	51.2344	3.9100e-003	0.0000	51.3321
Worker	0.0230	0.0155	0.1686	5.3000e-004	0.0589	3.5000e-004	0.0592	0.0156	3.2000e-004	0.0160	0.0000	47.5977	47.5977	1.1100e-003	0.0000	47.6254
Total	0.0280	0.2113	0.2063	1.0700e-003	0.0721	7.2000e-004	0.0729	0.0195	6.8000e-004	0.0201	0.0000	98.8321	98.8321	5.0200e-003	0.0000	98.9575

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0171	0.1562	0.1636	2.7000e-004		8.0900e-003	8.0900e-003		7.6100e-003	7.6100e-003	0.0000	23.1725	23.1725	5.5500e-003	0.0000	23.3113
Total	0.0171	0.1562	0.1636	2.7000e-004		8.0900e-003	8.0900e-003		7.6100e-003	7.6100e-003	0.0000	23.1725	23.1725	5.5500e-003	0.0000	23.3113

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3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0176	3.3400e-003	5.0000e-005	1.2600e-003	3.0000e-005	1.2900e-003	3.6000e-004	3.0000e-005	3.9000e-004	0.0000	4.8375	4.8375	3.5000e-004	0.0000	4.8463
Worker	2.0500e-003	1.3300e-003	0.0148	5.0000e-005	5.6100e-003	3.0000e-005	5.6400e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	4.3677	4.3677	9.0000e-005	0.0000	4.3701
Total	2.5000e-003	0.0189	0.0181	1.0000e-004	6.8700e-003	6.0000e-005	6.9300e-003	1.8500e-003	6.0000e-005	1.9100e-003	0.0000	9.2052	9.2052	4.4000e-004	0.0000	9.2164

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	3.2800e-003	0.0224	0.1746	2.7000e-004		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	23.1725	23.1725	5.5500e-003	0.0000	23.3113
Total	3.2800e-003	0.0224	0.1746	2.7000e-004		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	23.1725	23.1725	5.5500e-003	0.0000	23.3113

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3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5000e-004	0.0176	3.3400e-003	5.0000e-005	1.2600e-003	3.0000e-005	1.2900e-003	3.6000e-004	3.0000e-005	3.9000e-004	0.0000	4.8375	4.8375	3.5000e-004	0.0000	4.8463
Worker	2.0500e-003	1.3300e-003	0.0148	5.0000e-005	5.6100e-003	3.0000e-005	5.6400e-003	1.4900e-003	3.0000e-005	1.5200e-003	0.0000	4.3677	4.3677	9.0000e-005	0.0000	4.3701
Total	2.5000e-003	0.0189	0.0181	1.0000e-004	6.8700e-003	6.0000e-005	6.9300e-003	1.8500e-003	6.0000e-005	1.9100e-003	0.0000	9.2052	9.2052	4.4000e-004	0.0000	9.2164

3.6 Architectural Coating - 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					
Archit. Coating	0.2341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.2362	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.6 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8564	0.8564	2.0000e-005	0.0000	0.8569
Total	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8564	0.8564	2.0000e-005	0.0000	0.8569

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	0.2341					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.2344	1.2900e-003	0.0183	3.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.6 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8564	0.8564	2.0000e-005	0.0000	0.8569
Total	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8564	0.8564	2.0000e-005	0.0000	0.8569

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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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	1.5986	8.9401	7.6446	0.0210	0.8390	0.0153	0.8544	0.2244	0.0143	0.2386	0.0000	1,964.422 3	1,964.422 3	0.2628	0.0000	1,970.992 6
Unmitigated	1.5986	8.9401	7.6446	0.0210	0.8390	0.0153	0.8544	0.2244	0.0143	0.2386	0.0000	1,964.422 3	1,964.422 3	0.2628	0.0000	1,970.992 6

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	3,688.32	3,688.32	3,688.32	862,587	862,587
Fast Food Restaurant with Drive Thru	2,119.28	2,119.28	2,119.28	831,201	831,201
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	59.65	59.65	59.65	60,801	60,801
User Defined Industrial	1,936.00	1,936.00	1,936.00	452,772	452,772
Total	7,803.24	7,803.24	7,803.24	2,207,362	2,207,362

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
Convenience Market With Gas	3.00	3.00	3.00	0.80	80.20	19.00	14	21	65
Fast Food Restaurant with Drive	3.00	3.00	3.00	2.20	78.80	19.00	29	21	50
Parking Lot	3.00	3.00	3.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	3.00	3.00	3.00	59.00	0.00	41.00	92	5	3
User Defined Industrial	3.00	3.00	3.00	0.80	80.20	19.00	14	21	65

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Fast Food Restaurant with Drive Thru	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Unrefrigerated Warehouse-No Rail	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
User Defined Industrial	0.600000	0.400000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	123.3029	123.3029	5.0900e-003	1.0500e-003	123.7440
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	123.3029	123.3029	5.0900e-003	1.0500e-003	123.7440
NaturalGas Mitigated	7.1200e-003	0.0647	0.0544	3.9000e-004		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	70.4466	70.4466	1.3500e-003	1.2900e-003	70.8652
NaturalGas Unmitigated	7.1200e-003	0.0647	0.0544	3.9000e-004		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	70.4466	70.4466	1.3500e-003	1.2900e-003	70.8652

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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					
Convenience Market With Gas Pumps	5014.54	3.0000e-005	2.5000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2676	0.2676	1.0000e-005	0.0000	0.2692
Fast Food Restaurant with Drive Thru	1.23048e+006	6.6300e-003	0.0603	0.0507	3.6000e-004		4.5800e-003	4.5800e-003		4.5800e-003	4.5800e-003	0.0000	65.6631	65.6631	1.2600e-003	1.2000e-003	66.0533
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
Unrefrigerated Warehouse-No Rail	80185	4.3000e-004	3.9300e-003	3.3000e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2790	4.2790	8.0000e-005	8.0000e-005	4.3044
User Defined Industrial	4440	2.0000e-005	2.2000e-004	1.8000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2369	0.2369	0.0000	0.0000	0.2383
Total		7.1100e-003	0.0647	0.0544	3.8000e-004		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	70.4466	70.4466	1.3500e-003	1.2800e-003	70.8652

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market With Gas Pumps	5014.54	3.0000e-005	2.5000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2676	0.2676	1.0000e-005	0.0000	0.2692
Fast Food Restaurant with Drive Thru	1.23048e+006	6.6300e-003	0.0603	0.0507	3.6000e-004		4.5800e-003	4.5800e-003		4.5800e-003	4.5800e-003	0.0000	65.6631	65.6631	1.2600e-003	1.2000e-003	66.0533
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
Unrefrigerated Warehouse-No Rail	80185	4.3000e-004	3.9300e-003	3.3000e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	4.2790	4.2790	8.0000e-005	8.0000e-005	4.3044
User Defined Industrial	4440	2.0000e-005	2.2000e-004	1.8000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2369	0.2369	0.0000	0.0000	0.2383
Total		7.1100e-003	0.0647	0.0544	3.8000e-004		4.9200e-003	4.9200e-003		4.9200e-003	4.9200e-003	0.0000	70.4466	70.4466	1.3500e-003	1.2800e-003	70.8652

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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			
Convenience Market With Gas Pumps	28528.6	9.0898	3.8000e-004	8.0000e-005	9.1224
Fast Food Restaurant with Drive Thru	213660	68.0767	2.8100e-003	5.8000e-004	68.3202
Parking Lot	26320	8.3861	3.5000e-004	7.0000e-005	8.4161
Unrefrigerated Warehouse-No Rail	93220	29.7019	1.2300e-003	2.5000e-004	29.8082
User Defined Industrial	25260	8.0484	3.3000e-004	7.0000e-005	8.0772
Total		123.3029	5.1000e-003	1.0500e-003	123.7440

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	28528.6	9.0898	3.8000e-004	8.0000e-005	9.1224
Fast Food Restaurant with Drive Thru	213660	68.0767	2.8100e-003	5.8000e-004	68.3202
Parking Lot	26320	8.3861	3.5000e-004	7.0000e-005	8.4161
Unrefrigerated Warehouse-No Rail	93220	29.7019	1.2300e-003	2.5000e-004	29.8082
User Defined Industrial	25260	8.0484	3.3000e-004	7.0000e-005	8.0772
Total		123.3029	5.1000e-003	1.0500e-003	123.7440

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	0.2030	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1800e-003	6.1800e-003	2.0000e-005	0.0000	6.5900e-003
Unmitigated	0.2030	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1800e-003	6.1800e-003	2.0000e-005	0.0000	6.5900e-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	0.0234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1792					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-004	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1800e-003	6.1800e-003	2.0000e-005	0.0000	6.5900e-003
Total	0.2030	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1800e-003	6.1800e-003	2.0000e-005	0.0000	6.5900e-003

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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	0.0234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1792					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.0000e-004	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1800e-003	6.1800e-003	2.0000e-005	0.0000	6.5900e-003
Total	0.2030	3.0000e-005	3.1800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.1800e-003	6.1800e-003	2.0000e-005	0.0000	6.5900e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	48.3134	0.3495	8.5900e-003	59.6101
Unmitigated	48.3134	0.3495	8.5900e-003	59.6101

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7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.167315 / 0.102548	1.1102	5.5000e-003	1.4000e-004	1.2887
Fast Food Restaurant with Drive Thru	1.3659 / 0.0871852	6.4088	0.0448	1.1000e-003	7.8560
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.13438 / 0	40.7943	0.2992	7.3500e-003	50.4654
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		48.3133	0.3495	8.5900e-003	59.6101

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	0.167315 / 0.102548	1.1102	5.5000e-003	1.4000e-004	1.2887
Fast Food Restaurant with Drive Thru	1.3659 / 0.0871852	6.4088	0.0448	1.1000e-003	7.8560
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	9.13438 / 0	40.7943	0.2992	7.3500e-003	50.4654
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		48.3133	0.3495	8.5900e-003	59.6101

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.0601	1.0673	0.0000	44.7432
Unmitigated	18.0601	1.0673	0.0000	44.7432

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	51.84	10.5231	0.6219	0.0000	26.0704
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	37.13	7.5371	0.4454	0.0000	18.6727
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		18.0601	1.0673	0.0000	44.7431

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	51.84	10.5231	0.6219	0.0000	26.0704
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	37.13	7.5371	0.4454	0.0000	18.6727
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		18.0601	1.0673	0.0000	44.7431

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

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Equipment Type	Number
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11.0 Vegetation

EMFAC2017 (v1.0.2) Emissions Inventory

Region Type: County

Region: RIVERSIDE

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
RIVERSIDE	2022	HHDT	Aggregate	Aggregate	GAS	7.255052	664.5949	145.1591	0.153526957
RIVERSIDE	2022	HHDT	Aggregate	Aggregate	DSL	27819.82	3904544	319510.3	546.282737
RIVERSIDE	2022	HHDT	Aggregate	Aggregate	NG	316.9854	12882.03	1236.243	5.446767633
RIVERSIDE	2022	LDA	Aggregate	Aggregate	GAS	772785.9	30295680	3658982	950.2947165
RIVERSIDE	2022	LDA	Aggregate	Aggregate	DSL	7300.591	301308.5	34943.72	5.779940701
RIVERSIDE	2022	LDA	Aggregate	Aggregate	ELEC	12758.75	507507.2	64142.81	0
RIVERSIDE	2022	LDT1	Aggregate	Aggregate	GAS	82772.07	3076688	377724.3	113.8535898
RIVERSIDE	2022	LDT1	Aggregate	Aggregate	DSL	39.17988	864.4774	128.3035	0.033396863
RIVERSIDE	2022	LDT1	Aggregate	Aggregate	ELEC	485.0753	20119.8	2469.361	0
RIVERSIDE	2022	LDT2	Aggregate	Aggregate	GAS	252998	9768782	1185123	384.1060904
RIVERSIDE	2022	LDT2	Aggregate	Aggregate	DSL	1463.535	64682.45	7232.74	1.659413246
RIVERSIDE	2022	LDT2	Aggregate	Aggregate	ELEC	2319.02	72951.84	11758.83	0
RIVERSIDE	2022	LHDT1	Aggregate	Aggregate	GAS	20620.88	680334.7	307220.4	63.19981722
RIVERSIDE	2022	LHDT1	Aggregate	Aggregate	DSL	20161.77	691058.9	253609.7	32.89019256
RIVERSIDE	2022	LHDT2	Aggregate	Aggregate	GAS	3286.375	107419.4	48962.1	11.44267416
RIVERSIDE	2022	LHDT2	Aggregate	Aggregate	DSL	7795.761	266862.2	98060.87	13.86114635
RIVERSIDE	2022	MCY	Aggregate	Aggregate	GAS	36240.66	267199.3	72481.32	6.981836229
RIVERSIDE	2022	MDV	Aggregate	Aggregate	GAS	208995.2	7586688	958167.2	373.0302077
RIVERSIDE	2022	MDV	Aggregate	Aggregate	DSL	4324.736	181512.8	21074.47	6.313517611
RIVERSIDE	2022	MDV	Aggregate	Aggregate	ELEC	1262.694	40751.64	6455.526	0
RIVERSIDE	2022	MH	Aggregate	Aggregate	GAS	6006.899	48243.07	600.9302	9.356650581
RIVERSIDE	2022	MH	Aggregate	Aggregate	DSL	2591.606	20890.51	259.1606	1.918810096
RIVERSIDE	2022	MHDT	Aggregate	Aggregate	GAS	2027.159	107896.5	40559.4	20.67464454
RIVERSIDE	2022	MHDT	Aggregate	Aggregate	DSL	15610.04	974620.3	149691.2	87.4960399
RIVERSIDE	2022	OBUS	Aggregate	Aggregate	GAS	588.3426	26677.79	11771.56	5.181782563
RIVERSIDE	2022	OBUS	Aggregate	Aggregate	DSL	351.6439	25723.78	3337.739	2.818940959
RIVERSIDE	2022	SBUS	Aggregate	Aggregate	GAS	490.8818	19662.48	1963.527	2.188356834
RIVERSIDE	2022	SBUS	Aggregate	Aggregate	DSL	1154.013	36548.66	13317.14	4.808896505
RIVERSIDE	2022	UBUS	Aggregate	Aggregate	GAS	164.4552	23154.43	657.8207	3.756059553
RIVERSIDE	2022	UBUS	Aggregate	Aggregate	DSL	1.105798	58.5719	4.423192	0.006566346
RIVERSIDE	2022	UBUS	Aggregate	Aggregate	ELEC	5.058469	271.5304	20.23388	0
RIVERSIDE	2022	UBUS	Aggregate	Aggregate	NG	308.4781	42230.85	1233.912	9.425126379
						VMT		1000 gallons/day	
Total						58532879		2662.961445	
						Miles/Gallon		21.98037037	