

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Rialto Locust Industrial
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	192.00	1000sqft	4.41	192,000.00	0
Parking Lot	156.00	Space	1.40	62,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Demo: 20 days, Grading: 20 days, Construction: 230 Days, Paving: 20 days
- Vehicle Trips - 328 trips per traffic analysis
- Fleet Mix - 60% auto, 28% HHD, 11% MHD, 1% LDT
- Construction Off-road Equipment Mitigation -
- Demolition - 37143 sf demo
- Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00

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tblConstructionPhase	PhaseEndDate	4/23/2024	5/7/2024
tblFleetMix	HHD	0.02	0.28
tblFleetMix	LDA	0.54	0.60
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.17	0.00
tblFleetMix	LHD1	0.03	0.01
tblFleetMix	LHD2	7.1040e-003	0.00
tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.14	0.00
tblFleetMix	MH	4.8300e-003	0.00
tblFleetMix	MHD	0.01	0.11
tblFleetMix	OBUS	5.5400e-004	0.00
tblFleetMix	SBUS	9.5400e-004	0.00
tblFleetMix	UBUS	2.5100e-004	0.00
tblVehicleTrips	ST_TR	1.74	1.71
tblVehicleTrips	SU_TR	1.74	1.71
tblVehicleTrips	WD_TR	1.74	1.71

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.3481	22.4491	20.8864	0.0451	7.2503	1.0081	8.0260	3.4692	0.9381	4.1829	0.0000	4,440.908 3	4,440.908 3	1.0751	0.1447	4,500.416 0
2024	60.1634	15.1539	20.5159	0.0447	1.4651	0.6299	2.0950	0.3947	0.5925	0.9872	0.0000	4,398.788 1	4,398.788 1	0.7173	0.1412	4,457.077 8
Maximum	60.1634	22.4491	20.8864	0.0451	7.2503	1.0081	8.0260	3.4692	0.9381	4.1829	0.0000	4,440.908 3	4,440.908 3	1.0751	0.1447	4,500.416 0

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.3481	22.4491	20.8864	0.0451	2.9299	1.0081	3.7056	1.3801	0.9381	2.0938	0.0000	4,440.908 3	4,440.908 3	1.0751	0.1447	4,500.416 0
2024	60.1634	15.1539	20.5159	0.0447	1.4651	0.6299	2.0950	0.3947	0.5925	0.9872	0.0000	4,398.788 1	4,398.788 1	0.7173	0.1412	4,457.077 8
Maximum	60.1634	22.4491	20.8864	0.0451	2.9299	1.0081	3.7056	1.3801	0.9381	2.0938	0.0000	4,440.908 3	4,440.908 3	1.0751	0.1447	4,500.416 0

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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
Percent Reduction	0.00	0.00	0.00	0.00	49.57	0.00	42.69	54.07	0.00	40.41	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3194	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0762	0.0762	2.0000e-004		0.0811
Energy	0.0114	0.1037	0.0871	6.2000e-004		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003		124.3900	124.3900	2.3800e-003	2.2800e-003	125.1292
Mobile	0.4563	8.0739	7.1271	0.0538	3.1561	0.0772	3.2333	0.8600	0.0736	0.9336		5,709.0827	5,709.0827	0.1695	0.6832	5,916.9187
Total	4.7870	8.1778	7.2496	0.0544	3.1561	0.0853	3.2413	0.8600	0.0816	0.9416		5,833.5489	5,833.5489	0.1721	0.6855	6,042.1290

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.3194	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0762	0.0762	2.0000e-004		0.0811
Energy	0.0114	0.1037	0.0871	6.2000e-004		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003		124.3900	124.3900	2.3800e-003	2.2800e-003	125.1292
Mobile	0.4563	8.0739	7.1271	0.0538	3.1561	0.0772	3.2333	0.8600	0.0736	0.9336		5,709.0827	5,709.0827	0.1695	0.6832	5,916.9187
Total	4.7870	8.1778	7.2496	0.0544	3.1561	0.0853	3.2413	0.8600	0.0816	0.9416		5,833.5489	5,833.5489	0.1721	0.6855	6,042.1290

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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
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	2/1/2023	2/28/2023	5	20	
2	Grading	Grading	3/15/2023	4/11/2023	5	20	
3	Building Construction	Building Construction	4/12/2023	2/27/2024	5	230	
4	Paving	Paving	2/28/2024	3/26/2024	5	20	
5	Architectural Coating	Architectural Coating	3/27/2024	5/7/2024	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 20

Acres of Paving: 1.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 288,000; Non-Residential Outdoor: 96,000; Striped Parking Area: 3,744 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20

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Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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	169.00	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
Building Construction	9	107.00	42.00	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	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.8281	0.0000	1.8281	0.2768	0.0000	0.2768			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	1.8281	0.9975	2.8256	0.2768	0.9280	1.2048		3,746.9840	3,746.9840	1.0494		3,773.2183

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0204	0.9294	0.2831	4.7500e-003	0.1480	9.7700e-003	0.1578	0.0406	9.3500e-003	0.0499		517.2852	517.2852	0.0221	0.0820	542.2708
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0354	0.5641	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171
Total	0.0790	0.9647	0.8472	6.2500e-003	0.3156	0.0106	0.3262	0.0851	0.0101	0.0952		668.6369	668.6369	0.0257	0.0856	694.7879

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3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7130	0.0000	0.7130	0.1080	0.0000	0.1080			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.7130	0.9975	1.7105	0.1080	0.9280	1.0359	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0204	0.9294	0.2831	4.7500e-003	0.1480	9.7700e-003	0.1578	0.0406	9.3500e-003	0.0499		517.2852	517.2852	0.0221	0.0820	542.2708
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0354	0.5641	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171
Total	0.0790	0.9647	0.8472	6.2500e-003	0.3156	0.0106	0.3262	0.0851	0.0101	0.0952		668.6369	668.6369	0.0257	0.0856	694.7879

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3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	7.0826	0.7749	7.8575	3.4247	0.7129	4.1377		2,872.6910	2,872.6910	0.9291		2,895.9182

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0354	0.5641	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171
Total	0.0586	0.0354	0.5641	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171

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3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	2.7622	0.7749	3.5371	1.3357	0.7129	2.0486	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0586	0.0354	0.5641	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171
Total	0.0586	0.0354	0.5641	1.5000e-003	0.1677	8.3000e-004	0.1685	0.0445	7.6000e-004	0.0452		151.3517	151.3517	3.6600e-003	3.6000e-003	152.5171

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3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0492	1.4732	0.6182	7.5200e-003	0.2691	0.0111	0.2802	0.0775	0.0106	0.0881		806.0564	806.0564	0.0211	0.1190	842.0547
Worker	0.4181	0.2523	4.0242	0.0107	1.1960	5.8900e-003	1.2019	0.3172	5.4200e-003	0.3226		1,079.6421	1,079.6421	0.0261	0.0257	1,087.9553
Total	0.4673	1.7255	4.6424	0.0182	1.4651	0.0170	1.4821	0.3947	0.0160	0.4107		1,885.6984	1,885.6984	0.0472	0.1447	1,930.0100

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3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0492	1.4732	0.6182	7.5200e-003	0.2691	0.0111	0.2802	0.0775	0.0106	0.0881		806.0564	806.0564	0.0211	0.1190	842.0547
Worker	0.4181	0.2523	4.0242	0.0107	1.1960	5.8900e-003	1.2019	0.3172	5.4200e-003	0.3226		1,079.6421	1,079.6421	0.0261	0.0257	1,087.9553
Total	0.4673	1.7255	4.6424	0.0182	1.4651	0.0170	1.4821	0.3947	0.0160	0.4107		1,885.6984	1,885.6984	0.0472	0.1447	1,930.0100

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0480	1.4863	0.6079	7.4100e-003	0.2691	0.0109	0.2800	0.0775	0.0104	0.0879		794.9524	794.9524	0.0204	0.1174	830.4415
Worker	0.3883	0.2239	3.7412	0.0104	1.1960	5.6500e-003	1.2017	0.3172	5.2000e-003	0.3224		1,048.1368	1,048.1368	0.0236	0.0238	1,055.8286
Total	0.4363	1.7101	4.3491	0.0178	1.4651	0.0166	1.4816	0.3947	0.0156	0.4103		1,843.0892	1,843.0892	0.0441	0.1412	1,886.2701

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0480	1.4863	0.6079	7.4100e-003	0.2691	0.0109	0.2800	0.0775	0.0104	0.0879		794.9524	794.9524	0.0204	0.1174	830.4415
Worker	0.3883	0.2239	3.7412	0.0104	1.1960	5.6500e-003	1.2017	0.3172	5.2000e-003	0.3224		1,048.1368	1,048.1368	0.0236	0.0238	1,055.8286
Total	0.4363	1.7101	4.3491	0.0178	1.4651	0.0166	1.4816	0.3947	0.0156	0.4103		1,843.0892	1,843.0892	0.0441	0.1412	1,886.2701

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1716	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0544	0.0314	0.5245	1.4500e-003	0.1677	7.9000e-004	0.1685	0.0445	7.3000e-004	0.0452		146.9351	146.9351	3.3100e-003	3.3400e-003	148.0134
Total	0.0544	0.0314	0.5245	1.4500e-003	0.1677	7.9000e-004	0.1685	0.0445	7.3000e-004	0.0452		146.9351	146.9351	3.3100e-003	3.3400e-003	148.0134

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3
Paving	0.1834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1716	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.547 2	2,207.547 2	0.7140		2,225.396 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0544	0.0314	0.5245	1.4500e-003	0.1677	7.9000e-004	0.1685	0.0445	7.3000e-004	0.0452		146.9351	146.9351	3.3100e-003	3.3400e-003	148.0134
Total	0.0544	0.0314	0.5245	1.4500e-003	0.1677	7.9000e-004	0.1685	0.0445	7.3000e-004	0.0452		146.9351	146.9351	3.3100e-003	3.3400e-003	148.0134

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	59.9065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	60.0872	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0762	0.0439	0.7343	2.0400e-003	0.2347	1.1100e-003	0.2358	0.0623	1.0200e-003	0.0633		205.7091	205.7091	4.6400e-003	4.6800e-003	207.2187
Total	0.0762	0.0439	0.7343	2.0400e-003	0.2347	1.1100e-003	0.2358	0.0623	1.0200e-003	0.0633		205.7091	205.7091	4.6400e-003	4.6800e-003	207.2187

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	59.9065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	60.0872	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0762	0.0439	0.7343	2.0400e-003	0.2347	1.1100e-003	0.2358	0.0623	1.0200e-003	0.0633		205.7091	205.7091	4.6400e-003	4.6800e-003	207.2187
Total	0.0762	0.0439	0.7343	2.0400e-003	0.2347	1.1100e-003	0.2358	0.0623	1.0200e-003	0.0633		205.7091	205.7091	4.6400e-003	4.6800e-003	207.2187

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4563	8.0739	7.1271	0.0538	3.1561	0.0772	3.2333	0.8600	0.0736	0.9336		5,709.0827	5,709.0827	0.1695	0.6832	5,916.9187
Unmitigated	0.4563	8.0739	7.1271	0.0538	3.1561	0.0772	3.2333	0.8600	0.0736	0.9336		5,709.0827	5,709.0827	0.1695	0.6832	5,916.9187

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	328.32	328.32	328.32	1,407,087	1,407,087
Total	328.32	328.32	328.32	1,407,087	1,407,087

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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.540566	0.056059	0.172680	0.136494	0.026304	0.007104	0.011680	0.017449	0.000554	0.000251	0.025076	0.000954	0.004830
Unrefrigerated Warehouse-No Rail	0.600000	0.000000	0.000000	0.000000	0.010000	0.000000	0.110000	0.280000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0114	0.1037	0.0871	6.2000e-004		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003		124.3900	124.3900	2.3800e-003	2.2800e-003	125.1292
NaturalGas Unmitigated	0.0114	0.1037	0.0871	6.2000e-004		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003		124.3900	124.3900	2.3800e-003	2.2800e-003	125.1292

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Unrefrigerated Warehouse-No Rail	1057.32	0.0114	0.1037	0.0871	6.2000e-004		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003		124.3900	124.3900	2.3800e-003	2.2800e-003	125.1292
Total		0.0114	0.1037	0.0871	6.2000e-004		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003		124.3900	124.3900	2.3800e-003	2.2800e-003	125.1292

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
Unrefrigerated Warehouse-No Rail	1.05732	0.0114	0.1037	0.0871	6.2000e-004		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003		124.3900	124.3900	2.3800e-003	2.2800e-003	125.1292
Total		0.0114	0.1037	0.0871	6.2000e-004		7.8800e-003	7.8800e-003		7.8800e-003	7.8800e-003		124.3900	124.3900	2.3800e-003	2.2800e-003	125.1292

6.0 Area Detail

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.3194	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0762	0.0762	2.0000e-004		0.0811
Unmitigated	4.3194	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0762	0.0762	2.0000e-004		0.0811

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4924					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8237					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2800e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0762	0.0762	2.0000e-004		0.0811
Total	4.3194	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0762	0.0762	2.0000e-004		0.0811

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4924					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8237					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2800e-003	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0762	0.0762	2.0000e-004		0.0811
Total	4.3194	3.2000e-004	0.0355	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0762	0.0762	2.0000e-004		0.0811

7.0 Water Detail

7.1 Mitigation Measures Water

Rialto Locust Industrial - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
