

Annexation GPA Loma Linda: City GPA - 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

**Annexation GPA Loma Linda: City GPA
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	20.00	1000sqft	0.46	20,000.00	0
Single Family Housing	89.00	Dwelling Unit	44.64	160,200.00	255
Fast Food Restaurant with Drive Thru	6.00	1000sqft	0.14	6,000.00	0
Other Non-Asphalt Surfaces	71.60	1000sqft	1.64	71,600.00	0
Other Asphalt Surfaces	11.10	Acre	11.10	483,516.00	0
Parking Lot	8.70	Acre	8.70	378,972.00	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)	531.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per Site Use

Construction Phase -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	28.90	44.64

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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	3.4603	34.5628	34.9869	0.1001	19.8582	1.4256	21.1252	10.1558	1.3115	11.3215	0.0000	10,129.26 23	10,129.26 23	1.9491	0.5773	10,321.23 61
2024	3.2338	20.2594	33.7234	0.0984	5.9098	0.6795	6.5894	1.5917	0.6394	2.2311	0.0000	9,958.106 6	9,958.106 6	0.7812	0.5632	10,145.45 36
2025	3.0164	19.1523	32.4880	0.0964	5.9098	0.5925	6.5024	1.5917	0.5576	2.1493	0.0000	9,751.974 1	9,751.974 1	0.7658	0.5472	9,934.168 7
2026	2.9180	19.0290	31.5294	0.0945	5.9098	0.5911	6.5010	1.5916	0.5563	2.1480	0.0000	9,560.950 8	9,560.950 8	0.7551	0.5323	9,738.453 5
2027	2.8282	18.9177	30.7103	0.0928	5.9098	0.5896	6.4994	1.5916	0.5549	2.1465	0.0000	9,380.362 6	9,380.362 6	0.7455	0.5180	9,553.371 9
2028	20.4545	8.6026	14.9813	0.0241	0.9725	0.4192	1.0276	0.2579	0.3856	0.4301	0.0000	2,336.547 6	2,336.547 6	0.7160	0.0152	2,355.228 9
Maximum	20.4545	34.5628	34.9869	0.1001	19.8582	1.4256	21.1252	10.1558	1.3115	11.3215	0.0000	10,129.26 23	10,129.26 23	1.9491	0.5773	10,321.23 61

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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	27.9724	1.9313	52.6126	0.1159		6.8393	6.8393		6.8393	6.8393	833.6557	1,615.2469	2,448.9026	2.4989	0.0566	2,528.2361
Energy	0.1248	1.0935	0.6551	6.8000e-003		0.0862	0.0862		0.0862	0.0862		1,360.8695	1,360.8695	0.0261	0.0250	1,368.9565
Mobile	13.4700	12.9841	93.9762	0.1855	18.1533	0.1470	18.3003	4.8416	0.1375	4.9790		18,923.2325	18,923.2325	1.2505	1.0134	19,256.4840
Total	41.5672	16.0088	147.2438	0.3082	18.1533	7.0725	25.2257	4.8416	7.0629	11.9045	833.6557	21,899.3488	22,733.0046	3.7755	1.0949	23,153.6766

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	27.9724	1.9313	52.6126	0.1159		6.8393	6.8393		6.8393	6.8393	833.6557	1,615,2469	2,448.9026	2.4989	0.0566	2,528.2361
Energy	0.1248	1.0935	0.6551	6.8000e-003		0.0862	0.0862		0.0862	0.0862		1,360.8695	1,360.8695	0.0261	0.0250	1,368.9565
Mobile	13.4700	12.9841	93.9762	0.1855	18.1533	0.1470	18.3003	4.8416	0.1375	4.9790		18,923.2325	18,923.2325	1.2505	1.0134	19,256.4840
Total	41.5672	16.0088	147.2438	0.3082	18.1533	7.0725	25.2257	4.8416	7.0629	11.9045	833.6557	21,899.3488	22,733.0046	3.7755	1.0949	23,153.6766

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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	Site Preparation	Site Preparation	1/3/2023	2/27/2023	5	40	
2	Grading	Grading	2/28/2023	7/31/2023	5	110	
3	Building Construction	Building Construction	8/1/2023	11/1/2027	5	1110	
4	Paving	Paving	11/2/2027	2/14/2028	5	75	
5	Architectural Coating	Architectural Coating	2/15/2028	5/29/2028	5	75	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 330

Acres of Paving: 21.44

Residential Indoor: 324,405; Residential Outdoor: 108,135; Non-Residential Indoor: 39,000; Non-Residential Outdoor: 13,000; Striped Parking Area: 56,045 (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
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

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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
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	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
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	433.00	167.00	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	87.00	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 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0703	0.0424	0.6770	1.8000e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		181.6220	181.6220	4.3900e-003	4.3200e-003	183.0205
Total	0.0703	0.0424	0.6770	1.8000e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		181.6220	181.6220	4.3900e-003	4.3200e-003	183.0205

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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	lb/day										lb/day					
Fugitive Dust					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	8.8457	1.2660	10.1117	4.5461	1.1647	5.7108	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0703	0.0424	0.6770	1.8000e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		181.6220	181.6220	4.3900e-003	4.3200e-003	183.0205
Total	0.0703	0.0424	0.6770	1.8000e-003	0.2012	9.9000e-004	0.2022	0.0534	9.1000e-004	0.0543		181.6220	181.6220	4.3900e-003	4.3200e-003	183.0205

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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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105		6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643		6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.0782	0.0472	0.7522	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0100e-003	0.0603		201.8023	201.8023	4.8800e-003	4.8000e-003	203.3561
Total	0.0782	0.0472	0.7522	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0100e-003	0.0603		201.8023	201.8023	4.8800e-003	4.8000e-003	203.3561

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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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	4.1416	1.4245	5.5661	1.6442	1.3105	2.9547	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836

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	0.0782	0.0472	0.7522	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0100e-003	0.0603		201.8023	201.8023	4.8800e-003	4.8000e-003	203.3561
Total	0.0782	0.0472	0.7522	2.0000e-003	0.2236	1.1000e-003	0.2247	0.0593	1.0100e-003	0.0603		201.8023	201.8023	4.8800e-003	4.8000e-003	203.3561

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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	0.1955	5.8576	2.4579	0.0299	1.0699	0.0440	1.1140	0.3081	0.0421	0.3502		3,205.0336	3,205.0336	0.0838	0.4733	3,348.1699
Worker	1.6921	1.0209	16.2849	0.0432	4.8399	0.0238	4.8638	1.2836	0.0219	1.3055		4,369.0188	4,369.0188	0.1057	0.1040	4,402.6602
Total	1.8875	6.8786	18.7429	0.0731	5.9099	0.0679	5.9777	1.5917	0.0641	1.6557		7,574.0524	7,574.0524	0.1894	0.5773	7,750.8301

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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	0.1955	5.8576	2.4579	0.0299	1.0699	0.0440	1.1140	0.3081	0.0421	0.3502		3,205.0336	3,205.0336	0.0838	0.4733	3,348.1699
Worker	1.6921	1.0209	16.2849	0.0432	4.8399	0.0238	4.8638	1.2836	0.0219	1.3055		4,369.0188	4,369.0188	0.1057	0.1040	4,402.6602
Total	1.8875	6.8786	18.7429	0.0731	5.9099	0.0679	5.9777	1.5917	0.0641	1.6557		7,574.0524	7,574.0524	0.1894	0.5773	7,750.8301

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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	0.1910	5.9097	2.4171	0.0295	1.0699	0.0433	1.1133	0.3081	0.0415	0.3495		3,160.8820	3,160.8820	0.0812	0.4667	3,301.9936
Worker	1.5713	0.9059	15.1395	0.0420	4.8399	0.0229	4.8628	1.2836	0.0210	1.3046		4,241.5257	4,241.5257	0.0956	0.0964	4,272.6523
Total	1.7622	6.8157	17.5566	0.0714	5.9098	0.0662	5.9760	1.5917	0.0625	1.6542		7,402.4077	7,402.4077	0.1768	0.5632	7,574.6459

Annexation GPA Loma Linda: City GPA - 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	0.1910	5.9097	2.4171	0.0295	1.0699	0.0433	1.1133	0.3081	0.0415	0.3495		3,160.8820	3,160.8820	0.0812	0.4667	3,301.9936
Worker	1.5713	0.9059	15.1395	0.0420	4.8399	0.0229	4.8628	1.2836	0.0210	1.3046		4,241.5257	4,241.5257	0.0956	0.0964	4,272.6523
Total	1.7622	6.8157	17.5566	0.0714	5.9098	0.0662	5.9760	1.5917	0.0625	1.6542		7,402.4077	7,402.4077	0.1768	0.5632	7,574.6459

Annexation GPA Loma Linda: City GPA - 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 - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1873	5.8744	2.3791	0.0289	1.0699	0.0433	1.1132	0.3081	0.0414	0.3495		3,099.429 9	3,099.429 9	0.0789	0.4574	3,237.703 1
Worker	1.4617	0.8082	14.0242	0.0405	4.8399	0.0217	4.8616	1.2836	0.0200	1.3035		4,096.069 8	4,096.069 8	0.0859	0.0898	4,124.967 5
Total	1.6490	6.6826	16.4034	0.0694	5.9098	0.0650	5.9748	1.5917	0.0614	1.6530		7,195.499 8	7,195.499 8	0.1648	0.5472	7,362.670 6

Annexation GPA Loma Linda: City GPA - 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 - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1873	5.8744	2.3791	0.0289	1.0699	0.0433	1.1132	0.3081	0.0414	0.3495		3,099.429 9	3,099.429 9	0.0789	0.4574	3,237.703 1
Worker	1.4617	0.8082	14.0242	0.0405	4.8399	0.0217	4.8616	1.2836	0.0200	1.3035		4,096.069 8	4,096.069 8	0.0859	0.0898	4,124.967 5
Total	1.6490	6.6826	16.4034	0.0694	5.9098	0.0650	5.9748	1.5917	0.0614	1.6530		7,195.499 8	7,195.499 8	0.1648	0.5472	7,362.670 6

Annexation GPA Loma Linda: City GPA - 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 - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1840	5.8310	2.3475	0.0283	1.0699	0.0430	1.1129	0.3081	0.0412	0.3492		3,037.836 3	3,037.836 3	0.0765	0.4480	3,173.258 8
Worker	1.3666	0.7283	13.0973	0.0392	4.8399	0.0206	4.8605	1.2836	0.0189	1.3025		3,966.640 1	3,966.640 1	0.0777	0.0843	3,993.696 6
Total	1.5506	6.5593	15.4448	0.0676	5.9098	0.0636	5.9734	1.5916	0.0601	1.6517		7,004.476 5	7,004.476 5	0.1542	0.5323	7,166.955 4

Annexation GPA Loma Linda: City GPA - 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 - 2026

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1840	5.8310	2.3475	0.0283	1.0699	0.0430	1.1129	0.3081	0.0412	0.3492		3,037.836 3	3,037.836 3	0.0765	0.4480	3,173.258 8
Worker	1.3666	0.7283	13.0973	0.0392	4.8399	0.0206	4.8605	1.2836	0.0189	1.3025		3,966.640 1	3,966.640 1	0.0777	0.0843	3,993.696 6
Total	1.5506	6.5593	15.4448	0.0676	5.9098	0.0636	5.9734	1.5916	0.0601	1.6517		7,004.476 5	7,004.476 5	0.1542	0.5323	7,166.955 4

Annexation GPA Loma Linda: City GPA - 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 - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1812	5.7871	2.3205	0.0277	1.0699	0.0427	1.1126	0.3081	0.0409	0.3490		2,973.590 0	2,973.590 0	0.0739	0.4384	3,106.068 9
Worker	1.2795	0.6609	12.3052	0.0381	4.8399	0.0193	4.8592	1.2836	0.0178	1.3013		3,850.298 2	3,850.298 2	0.0706	0.0797	3,875.804 9
Total	1.4608	6.4480	14.6256	0.0658	5.9098	0.0620	5.9718	1.5916	0.0586	1.6503		6,823.888 2	6,823.888 2	0.1446	0.5180	6,981.873 8

Annexation GPA Loma Linda: City GPA - 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 - 2027

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.1812	5.7871	2.3205	0.0277	1.0699	0.0427	1.1126	0.3081	0.0409	0.3490		2,973.590 0	2,973.590 0	0.0739	0.4384	3,106.068 9
Worker	1.2795	0.6609	12.3052	0.0381	4.8399	0.0193	4.8592	1.2836	0.0178	1.3013		3,850.298 2	3,850.298 2	0.0706	0.0797	3,875.804 9
Total	1.4608	6.4480	14.6256	0.0658	5.9098	0.0620	5.9718	1.5916	0.0586	1.6503		6,823.888 2	6,823.888 2	0.1446	0.5180	6,981.873 8

Annexation GPA Loma Linda: City GPA - 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 - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.6917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6068	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0443	0.0229	0.4263	1.3200e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		133.3822	133.3822	2.4500e-003	2.7600e-003	134.2658
Total	0.0443	0.0229	0.4263	1.3200e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		133.3822	133.3822	2.4500e-003	2.7600e-003	134.2658

Annexation GPA Loma Linda: City GPA - 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 - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.6917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6068	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0443	0.0229	0.4263	1.3200e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		133.3822	133.3822	2.4500e-003	2.7600e-003	134.2658
Total	0.0443	0.0229	0.4263	1.3200e-003	0.1677	6.7000e-004	0.1683	0.0445	6.2000e-004	0.0451		133.3822	133.3822	2.4500e-003	2.7600e-003	134.2658

Annexation GPA Loma Linda: City GPA - 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 - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.6917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6068	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0416	0.0209	0.4034	1.2800e-003	0.1677	6.2000e-004	0.1683	0.0445	5.7000e-004	0.0450		129.8024	129.8024	2.2400e-003	2.6300e-003	130.6411
Total	0.0416	0.0209	0.4034	1.2800e-003	0.1677	6.2000e-004	0.1683	0.0445	5.7000e-004	0.0450		129.8024	129.8024	2.2400e-003	2.6300e-003	130.6411

Annexation GPA Loma Linda: City GPA - 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 - 2028

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.6917					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6068	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0416	0.0209	0.4034	1.2800e-003	0.1677	6.2000e-004	0.1683	0.0445	5.7000e-004	0.0450		129.8024	129.8024	2.2400e-003	2.6300e-003	130.6411
Total	0.0416	0.0209	0.4034	1.2800e-003	0.1677	6.2000e-004	0.1683	0.0445	5.7000e-004	0.0450		129.8024	129.8024	2.2400e-003	2.6300e-003	130.6411

Annexation GPA Loma Linda: City GPA - 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 - 2028

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	20.0427					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	20.2135	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.2410	0.1214	2.3396	7.4500e-003	0.9725	3.6200e-003	0.9761	0.2579	3.3300e-003	0.2612		752.8542	752.8542	0.0130	0.0152	757.7186
Total	0.2410	0.1214	2.3396	7.4500e-003	0.9725	3.6200e-003	0.9761	0.2579	3.3300e-003	0.2612		752.8542	752.8542	0.0130	0.0152	757.7186

Annexation GPA Loma Linda: City GPA - 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 - 2028

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	20.0427					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	20.2135	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.2410	0.1214	2.3396	7.4500e-003	0.9725	3.6200e-003	0.9761	0.2579	3.3300e-003	0.2612		752.8542	752.8542	0.0130	0.0152	757.7186
Total	0.2410	0.1214	2.3396	7.4500e-003	0.9725	3.6200e-003	0.9761	0.2579	3.3300e-003	0.2612		752.8542	752.8542	0.0130	0.0152	757.7186

Annexation GPA Loma Linda: City GPA - 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	13.4700	12.9841	93.9762	0.1855	18.1533	0.1470	18.3003	4.8416	0.1375	4.9790		18,923.23 25	18,923.23 25	1.2505	1.0134	19,256.48 40
Unmitigated	13.4700	12.9841	93.9762	0.1855	18.1533	0.1470	18.3003	4.8416	0.1375	4.9790		18,923.23 25	18,923.23 25	1.2505	1.0134	19,256.48 40

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	2,825.70	3,696.72	2835.48	3,106,152	3,106,152
Single Family Housing	840.16	849.06	760.95	2,836,632	2,836,632
Medical Office Building	696.00	171.40	28.40	1,363,554	1,363,554
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	4,361.86	4,717.18	3,624.83	7,306,338	7,306,338

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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50

Annexation GPA Loma Linda: City GPA - 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	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	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
Single Family Housing	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
Fast Food Restaurant with Drive Thru	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
Medical Office Building	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
Other Asphalt Surfaces	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
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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Annexation GPA Loma Linda: City GPA - 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

	ROG	NOx	CO	SO2	Fugitive 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	0.1248	1.0935	0.6551	6.8000e-003		0.0862	0.0862		0.0862	0.0862		1,360.8695	1,360.8695	0.0261	0.0250	1,368.9565
NaturalGas Unmitigated	0.1248	1.0935	0.6551	6.8000e-003		0.0862	0.0862		0.0862	0.0862		1,360.8695	1,360.8695	0.0261	0.0250	1,368.9565

Annexation GPA Loma Linda: City GPA - 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					
Fast Food Restaurant with Drive Thru	4482.08	0.0483	0.4394	0.3691	2.6400e-003		0.0334	0.0334		0.0334	0.0334		527.3038	527.3038	0.0101	9.6700e-003	530.4373
Medical Office Building	187.945	2.0300e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003		22.1112	22.1112	4.2000e-004	4.1000e-004	22.2426
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6897.36	0.0744	0.6356	0.2705	4.0600e-003		0.0514	0.0514		0.0514	0.0514		811.4545	811.4545	0.0156	0.0149	816.2766
Total		0.1248	1.0935	0.6551	6.8100e-003		0.0862	0.0862		0.0862	0.0862		1,360.8695	1,360.8695	0.0261	0.0250	1,368.9565

Annexation GPA Loma Linda: City GPA - 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

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					
Fast Food Restaurant with Drive Thru	4.48208	0.0483	0.4394	0.3691	2.6400e-003		0.0334	0.0334		0.0334	0.0334		527.3038	527.3038	0.0101	9.6700e-003	530.4373
Medical Office Building	0.187945	2.0300e-003	0.0184	0.0155	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003		22.1112	22.1112	4.2000e-004	4.1000e-004	22.2426
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	6.89736	0.0744	0.6356	0.2705	4.0600e-003		0.0514	0.0514		0.0514	0.0514		811.4545	811.4545	0.0156	0.0149	816.2766
Total		0.1248	1.0935	0.6551	6.8100e-003		0.0862	0.0862		0.0862	0.0862		1,360.8695	1,360.8695	0.0261	0.0250	1,368.9565

6.0 Area Detail

6.1 Mitigation Measures Area

Annexation GPA Loma Linda: City GPA - 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

	ROG	NOx	CO	SO2	Fugitive 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	27.9724	1.9313	52.6126	0.1159		6.8393	6.8393		6.8393	6.8393	833.6557	1,615,246 9	2,448,902 6	2.4989	0.0566	2,528,236 1
Unmitigated	27.9724	1.9313	52.6126	0.1159		6.8393	6.8393		6.8393	6.8393	833.6557	1,615,246 9	2,448,902 6	2.4989	0.0566	2,528,236 1

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	0.4118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.0176					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.3212	1.8466	45.2611	0.1155		6.7986	6.7986		6.7986	6.7986	833.6557	1,602,000 0	2,435,655 7	2.4861	0.0566	2,514,670 4
Landscaping	0.2218	0.0847	7.3515	3.9000e-004		0.0407	0.0407		0.0407	0.0407		13.2469	13.2469	0.0128		13.5657
Total	27.9724	1.9313	52.6126	0.1159		6.8393	6.8393		6.8393	6.8393	833.6557	1,615,246 9	2,448,902 6	2.4989	0.0566	2,528,236 1

Annexation GPA Loma Linda: City GPA - 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	0.4118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.0176					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.3212	1.8466	45.2611	0.1155		6.7986	6.7986		6.7986	6.7986	833.6557	1,602.0000	2,435.6557	2.4861	0.0566	2,514.6704
Landscaping	0.2218	0.0847	7.3515	3.9000e-004		0.0407	0.0407		0.0407	0.0407		13.2469	13.2469	0.0128		13.5657
Total	27.9724	1.9313	52.6126	0.1159		6.8393	6.8393		6.8393	6.8393	833.6557	1,615.2469	2,448.9026	2.4989	0.0566	2,528.2361

7.0 Water Detail

7.1 Mitigation Measures Water

Annexation GPA Loma Linda: City GPA - 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
