

PDS2020-LDGRMJ-30273 - San Diego County, Summer

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

PDS2020-LDGRMJ-30273

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	76.00	Dwelling Unit	2.75	76,000.00	217

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	539.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Development of 76 multi-family units on a 2.75 acre parcel

Construction Phase - Anticipated dates of construction assuming a 24-month construction period. CalEEMod default ratios used to align with construction timeline

Grading - Acres graded based on acres disturbed. Excavation of 2700 cy and import of a total of 24100 cy

Vehicle Trips - This model runs for construction emissions only

Architectural Coating - VOC content aligned with SDAPCD

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblConstructionPhase	NumDays	10.00	20.00

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tblConstructionPhase	NumDays	220.00	460.00
tblConstructionPhase	NumDays	6.00	14.00
tblConstructionPhase	NumDays	10.00	24.00
tblConstructionPhase	NumDays	3.00	8.00
tblConstructionPhase	PhaseEndDate	9/12/2024	9/5/2025
tblConstructionPhase	PhaseEndDate	8/15/2024	7/7/2025
tblConstructionPhase	PhaseEndDate	10/12/2023	10/2/2023
tblConstructionPhase	PhaseEndDate	8/29/2024	8/8/2025
tblConstructionPhase	PhaseEndDate	10/4/2023	9/12/2023
tblConstructionPhase	PhaseStartDate	8/30/2024	8/9/2025
tblConstructionPhase	PhaseStartDate	10/13/2023	10/3/2023
tblConstructionPhase	PhaseStartDate	10/5/2023	9/13/2023
tblConstructionPhase	PhaseStartDate	8/16/2024	7/8/2025
tblConstructionPhase	PhaseStartDate	9/30/2023	9/1/2023
tblGrading	AcresOfGrading	14.00	6.00
tblGrading	AcresOfGrading	12.00	4.50
tblGrading	MaterialExported	0.00	2,700.00
tblGrading	MaterialImported	0.00	24,100.00
tblLandUse	LotAcreage	2.00	2.75

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	1.8735	39.2459	15.7457	0.1346	9.8694	0.8149	10.6843	4.2885	0.7575	5.0460	0.0000		14,586.0165	1.2782	1.9924	15,211.6953
2024	1.7475	13.2480	15.4523	0.0305	0.5060	0.5425	1.0485	0.1354	0.5194	0.6548	0.0000		2,853.6658	0.4419	0.0346	2,875.0111
2025	41.8082	12.4365	15.2786	0.0303	0.5060	0.4743	0.9803	0.1354	0.4538	0.5893	0.0000		2,837.2761	0.5444	0.0335	2,858.1219
Maximum	41.8082	39.2459	15.7457	0.1346	9.8694	0.8149	10.6843	4.2885	0.7575	5.0460	0.0000		14,586.0165	1.2782	1.9924	15,211.6953

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	1.8735	39.2459	15.7457	0.1346	9.8694	0.8149	10.6843	4.2885	0.7575	5.0460	0.0000		14,586.0165	1.2782	1.9924	15,211.6953
2024	1.7475	13.2480	15.4523	0.0305	0.5060	0.5425	1.0485	0.1354	0.5194	0.6548	0.0000		2,853.6658	0.4419	0.0346	2,875.0111
2025	41.8082	12.4365	15.2786	0.0303	0.5060	0.4743	0.9803	0.1354	0.4538	0.5893	0.0000		2,837.2761	0.5444	0.0335	2,858.1218
Maximum	41.8082	39.2459	15.7457	0.1346	9.8694	0.8149	10.6843	4.2885	0.7575	5.0460	0.0000		14,586.0165	1.2782	1.9924	15,211.6953

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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	118.7759	2.3436	149.8362	0.2604		20.1649	20.1649		20.1649	20.1649	2,110.6515		3,007.1180	1.9586	0.1660	3,105.5564
Energy	0.0163	0.1396	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113			178.2368	3.4200e-003	3.2700e-003	179.2960
Mobile	1.1456	1.1405	10.2416	0.0228	2.4850	0.0171	2.5021	0.6620	0.0159	0.6779			2,326.9398	0.1543	0.0975	2,359.8414
Total	119.9379	3.6237	160.1373	0.2842	2.4850	20.1933	22.6783	0.6620	20.1921	20.8541	2,110.6515		5,512.2946	2.1163	0.2668	5,644.6938

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	118.7759	2.3436	149.8362	0.2604		20.1649	20.1649		20.1649	20.1649	2,110.6515		3,007.1180	1.9586	0.1660	3,105.5564
Energy	0.0163	0.1396	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113			178.2368	3.4200e-003	3.2700e-003	179.2960
Mobile	1.1456	1.1405	10.2416	0.0228	2.4850	0.0171	2.5021	0.6620	0.0159	0.6779			2,326.9398	0.1543	0.0975	2,359.8414
Total	119.9379	3.6237	160.1373	0.2842	2.4850	20.1933	22.6783	0.6620	20.1921	20.8541	2,110.6515		5,512.2946	2.1163	0.2668	5,644.6938

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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	9/1/2023	9/12/2023	5	8	
2	Grading	Grading	9/13/2023	10/2/2023	5	14	
3	Building Construction	Building Construction	10/3/2023	7/7/2025	5	460	
4	Paving	Paving	7/8/2025	8/8/2025	5	24	
5	Architectural Coating	Architectural Coating	8/9/2025	9/5/2025	5	20	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 0

Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	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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Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	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	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	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	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,650.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	8.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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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					0.5965	0.0000	0.5965	0.0644	0.0000	0.0644			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985			2,374.8634	0.7681		2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	0.5965	0.5419	1.1384	0.0644	0.4985	0.5629			2,374.8634	0.7681		2,394.0654

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
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
Worker	0.0219	0.0136	0.1920	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178			58.6931	1.5900e-003	1.4600e-003	59.1689
Total	0.0219	0.0136	0.1920	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178			58.6931	1.5900e-003	1.4600e-003	59.1689

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3.2 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5965	0.0000	0.5965	0.0644	0.0000	0.0644			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985	0.0000		2,374.8634	0.7681		2,394.0654
Total	1.3027	14.2802	9.7820	0.0245	0.5965	0.5419	1.1384	0.0644	0.4985	0.5629	0.0000		2,374.8634	0.7681		2,394.0654

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
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
Worker	0.0219	0.0136	0.1920	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178			58.6931	1.5900e-003	1.4600e-003	59.1689
Total	0.0219	0.0136	0.1920	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178			58.6931	1.5900e-003	1.4600e-003	59.1689

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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					6.4766	0.0000	6.4766	3.3593	0.0000	3.3593			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560			1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	6.4766	0.6044	7.0809	3.3593	0.5560	3.9153			1,995.6147	0.6454		2,011.7503

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	0.4287	24.7613	6.8020	0.1133	3.3107	0.2102	3.5208	0.9075	0.2011	1.1085			12,517.0354	0.6308	1.9905	13,125.9839
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
Worker	0.0273	0.0170	0.2400	7.3000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222			73.3664	1.9900e-003	1.8300e-003	73.9611
Total	0.4560	24.7782	7.0419	0.1140	3.3928	0.2106	3.6034	0.9292	0.2015	1.1307			12,590.4018	0.6328	1.9924	13,199.9451

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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					6.4766	0.0000	6.4766	3.3593	0.0000	3.3593			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000		1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	6.4766	0.6044	7.0809	3.3593	0.5560	3.9153	0.0000		1,995.6147	0.6454		2,011.7503

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	0.4287	24.7613	6.8020	0.1133	3.3107	0.2102	3.5208	0.9075	0.2011	1.1085			12,517.0354	0.6308	1.9905	13,125.9839
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
Worker	0.0273	0.0170	0.2400	7.3000e-004	0.0822	4.4000e-004	0.0826	0.0218	4.1000e-004	0.0222			73.3664	1.9900e-003	1.8300e-003	73.9611
Total	0.4560	24.7782	7.0419	0.1140	3.3928	0.2106	3.6034	0.9292	0.2015	1.1307			12,590.4018	0.6328	1.9924	13,199.9451

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

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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880			2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880			2,289.5233	0.4330		2,300.3479

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
Vendor	9.5600e-003	0.3429	0.1236	1.6400e-003	0.0542	2.0900e-003	0.0563	0.0156	2.0000e-003	0.0176			176.8376	5.3600e-003	0.0256	184.6018
Worker	0.1503	0.0933	1.3200	3.9900e-003	0.4518	2.4200e-003	0.4542	0.1198	2.2300e-003	0.1221			403.5152	0.0109	0.0101	406.7862
Total	0.1599	0.4363	1.4435	5.6300e-003	0.5060	4.5100e-003	0.5105	0.1354	4.2300e-003	0.1397			580.3528	0.0163	0.0357	591.3880

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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	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000		2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000		2,289.5233	0.4330		2,300.3479

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
Vendor	9.5600e-003	0.3429	0.1236	1.6400e-003	0.0542	2.0900e-003	0.0563	0.0156	2.0000e-003	0.0176			176.8376	5.3600e-003	0.0256	184.6018
Worker	0.1503	0.0933	1.3200	3.9900e-003	0.4518	2.4200e-003	0.4542	0.1198	2.2300e-003	0.1221			403.5152	0.0109	0.0101	406.7862
Total	0.1599	0.4363	1.4435	5.6300e-003	0.5060	4.5100e-003	0.5105	0.1354	4.2300e-003	0.1397			580.3528	0.0163	0.0357	591.3880

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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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153			2,289.6541	0.4265		2,300.3154
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153			2,289.6541	0.4265		2,300.3154

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
Vendor	9.2000e-003	0.3406	0.1207	1.6100e-003	0.0542	2.1000e-003	0.0563	0.0156	2.0100e-003	0.0176			173.7545	5.4800e-003	0.0252	181.3882
Worker	0.1411	0.0839	1.2314	3.8600e-003	0.4518	2.3100e-003	0.4541	0.1198	2.1200e-003	0.1220			390.2573	9.9500e-003	9.4000e-003	393.3074
Total	0.1503	0.4245	1.3521	5.4700e-003	0.5060	4.4100e-003	0.5104	0.1354	4.1300e-003	0.1396			564.0117	0.0154	0.0346	574.6957

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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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000		2,289.6541	0.4265		2,300.3154
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000		2,289.6541	0.4265		2,300.3154

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
Vendor	9.2000e-003	0.3406	0.1207	1.6100e-003	0.0542	2.1000e-003	0.0563	0.0156	2.0100e-003	0.0176			173.7545	5.4800e-003	0.0252	181.3882
Worker	0.1411	0.0839	1.2314	3.8600e-003	0.4518	2.3100e-003	0.4541	0.1198	2.1200e-003	0.1220			390.2573	9.9500e-003	9.4000e-003	393.3074
Total	0.1503	0.4245	1.3521	5.4700e-003	0.5060	4.4100e-003	0.5104	0.1354	4.1300e-003	0.1396			564.0117	0.0154	0.0346	574.6957

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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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498			2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498			2,289.8898	0.4200		2,300.3887

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
Vendor	8.9200e-003	0.3373	0.1187	1.5700e-003	0.0542	2.0900e-003	0.0563	0.0156	2.0000e-003	0.0176			170.4399	5.6200e-003	0.0247	177.9304
Worker	0.1329	0.0760	1.1528	3.7300e-003	0.4518	2.2000e-003	0.4540	0.1198	2.0300e-003	0.1219			376.9464	9.0700e-003	8.8200e-003	379.8028
Total	0.1418	0.4132	1.2714	5.3000e-003	0.5060	4.2900e-003	0.5103	0.1354	4.0300e-003	0.1395			547.3863	0.0147	0.0335	557.7332

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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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000		2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000		2,289.8898	0.4200		2,300.3887

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
Vendor	8.9200e-003	0.3373	0.1187	1.5700e-003	0.0542	2.0900e-003	0.0563	0.0156	2.0000e-003	0.0176			170.4399	5.6200e-003	0.0247	177.9304
Worker	0.1329	0.0760	1.1528	3.7300e-003	0.4518	2.2000e-003	0.4540	0.1198	2.0300e-003	0.1219			376.9464	9.0700e-003	8.8200e-003	379.8028
Total	0.1418	0.4132	1.2714	5.3000e-003	0.5060	4.2900e-003	0.5103	0.1354	4.0300e-003	0.1395			547.3863	0.0147	0.0335	557.7332

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

3.5 Paving - 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	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234			1,710.0067	0.5420		1,723.5556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234			1,710.0067	0.5420		1,723.5556

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
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
Worker	0.0363	0.0207	0.3144	1.0200e-003	0.1232	6.0000e-004	0.1238	0.0327	5.5000e-004	0.0332			102.8036	2.4700e-003	2.4100e-003	103.5826
Total	0.0363	0.0207	0.3144	1.0200e-003	0.1232	6.0000e-004	0.1238	0.0327	5.5000e-004	0.0332			102.8036	2.4700e-003	2.4100e-003	103.5826

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

3.5 Paving - 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	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234	0.0000		1,710.0067	0.5420		1,723.5556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234	0.0000		1,710.0067	0.5420		1,723.5556

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
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
Worker	0.0363	0.0207	0.3144	1.0200e-003	0.1232	6.0000e-004	0.1238	0.0327	5.5000e-004	0.0332			102.8036	2.4700e-003	2.4100e-003	103.5826
Total	0.0363	0.0207	0.3144	1.0200e-003	0.1232	6.0000e-004	0.1238	0.0327	5.5000e-004	0.0332			102.8036	2.4700e-003	2.4100e-003	103.5826

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

3.6 Architectural Coating - 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					
Archit. Coating	41.6107					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	0.0154		281.8319
Total	41.7816	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515			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
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
Worker	0.0266	0.0152	0.2306	7.5000e-004	0.0904	4.4000e-004	0.0908	0.0240	4.1000e-004	0.0244			75.3893	1.8100e-003	1.7600e-003	75.9606
Total	0.0266	0.0152	0.2306	7.5000e-004	0.0904	4.4000e-004	0.0908	0.0240	4.1000e-004	0.0244			75.3893	1.8100e-003	1.7600e-003	75.9606

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

3.6 Architectural Coating - 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					
Archit. Coating	41.6107					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	0.0154		281.8319
Total	41.7816	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000		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
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
Worker	0.0266	0.0152	0.2306	7.5000e-004	0.0904	4.4000e-004	0.0908	0.0240	4.1000e-004	0.0244			75.3893	1.8100e-003	1.7600e-003	75.9606
Total	0.0266	0.0152	0.2306	7.5000e-004	0.0904	4.4000e-004	0.0908	0.0240	4.1000e-004	0.0244			75.3893	1.8100e-003	1.7600e-003	75.9606

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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	1.1456	1.1405	10.2416	0.0228	2.4850	0.0171	2.5021	0.6620	0.0159	0.6779			2,326.9398	0.1543	0.0975	2,359.8414
Unmitigated	1.1456	1.1405	10.2416	0.0228	2.4850	0.0171	2.5021	0.6620	0.0159	0.6779			2,326.9398	0.1543	0.0975	2,359.8414

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	413.44	373.16	310.84	1,122,216	1,122,216
Total	413.44	373.16	310.84	1,122,216	1,122,216

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
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

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

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	0.0163	0.1396	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113			178.2368	3.4200e-003	3.2700e-003	179.2960
NaturalGas Unmitigated	0.0163	0.1396	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113			178.2368	3.4200e-003	3.2700e-003	179.2960

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					
Apartments Mid Rise	1515.01	0.0163	0.1396	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113			178.2368	3.4200e-003	3.2700e-003	179.2960
Total		0.0163	0.1396	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113			178.2368	3.4200e-003	3.2700e-003	179.2960

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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					
Apartments Mid Rise	1.51501	0.0163	0.1396	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113			178.2368	3.4200e-003	3.2700e-003	179.2960
Total		0.0163	0.1396	0.0594	8.9000e-004		0.0113	0.0113		0.0113	0.0113			178.2368	3.4200e-003	3.2700e-003	179.2960

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	118.7759	2.3436	149.8362	0.2604		20.1649	20.1649		20.1649	20.1649	2,110.6515		3,007.1180	1.9586	0.1660	3,105.5564
Unmitigated	118.7759	2.3436	149.8362	0.2604		20.1649	20.1649		20.1649	20.1649	2,110.6515		3,007.1180	1.9586	0.1660	3,105.5564

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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	0.6514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	116.3100	2.2714	143.5721	0.2601		20.1302	20.1302		20.1302	20.1302	2,110.6515		2,995.8280	1.9478	0.1660	3,093.9961
Landscaping	0.1881	0.0722	6.2642	3.3000e-004		0.0348	0.0348		0.0348	0.0348			11.2900	0.0108		11.5603
Total	118.7759	2.3436	149.8362	0.2604		20.1649	20.1649		20.1649	20.1649	2,110.6515		3,007.1180	1.9586	0.1660	3,105.5564

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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	0.6514					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6264					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	116.3100	2.2714	143.5721	0.2601		20.1302	20.1302		20.1302	20.1302	2,110.6515		2,995.8280	1.9478	0.1660	3,093.9961
Landscaping	0.1881	0.0722	6.2642	3.3000e-004		0.0348	0.0348		0.0348	0.0348			11.2900	0.0108		11.5603
Total	118.7759	2.3436	149.8362	0.2604		20.1649	20.1649		20.1649	20.1649	2,110.6515		3,007.1180	1.9586	0.1660	3,105.5564

7.0 Water Detail

7.1 Mitigation Measures Water

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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
