Appendix A

California Emissions Estimator Model Output Sheets

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Park Edge Apartments Mixed-Use Project

Santa Barbara County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	292.00	Space	2.63	116,800.00	0
Fast Food Restaurant with Drive Thru	5.43	1000sqft	0.12	5,430.00	0
Racquet Club	2.68	1000sqft	0.06	2,680.00	0
Apartments Low Rise	140.00	Dwelling Unit	4.66	140,000.00	508

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.9	**Precipitation Freq (Days)**	37
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Data from Client

Land Use - Acreage & pop. from City of SM initial study/description
'Racket club' subtype used for proposed clubhouse
Drive thru assumed to occupy entire commercial space
Low Rise acreage=total acreage (7.47 acres) minus commercial acreage (2.81 acres)

Construction Phase - Adjusted total days to match project description construction schedule

Trips and VMT -

Grading - cut/fill data from project description

Architectural Coating -

Vehicle Trips - Assuming only residential clubhouse usage

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Area Coating -

Water Mitigation - Title 24

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblGrading	MaterialExported	0.00	6,200.00
tblGrading	MaterialImported	0.00	20,300.00
tblLandUse	LotAcreage	8.75	4.66
tblLandUse	Population	381.00	508.00
tblVehicleTrips	ST_TR	21.35	0.00
tblVehicleTrips	SU_TR	17.40	0.00
tblVehicleTrips	WD_TR	14.03	0.00

2.0 Emissions Summary

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2072	2.0937	1.7756	4.4900e-003	0.4076	0.0851	0.4926	0.1805	0.0795	0.2600	0.0000	414.0152	414.0152	0.0687	0.0249	423.1589
2023	0.8817	1.6055	1.9933	4.0200e-003	0.1048	0.0712	0.1760	0.0283	0.0669	0.0952	0.0000	359.2732	359.2732	0.0631	0.0105	363.9714
Maximum	**0.8817**	**2.0937**	**1.9933**	**4.4900e-003**	**0.4076**	**0.0851**	**0.4926**	**0.1805**	**0.0795**	**0.2600**	**0.0000**	**414.0152**	**414.0152**	**0.0687**	**0.0249**	**423.1589**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2072	2.0937	1.7756	4.4900e-003	0.4076	0.0851	0.4926	0.1805	0.0795	0.2600	0.0000	414.0149	414.0149	0.0687	0.0249	423.1586
2023	0.8817	1.6055	1.9933	4.0200e-003	0.1048	0.0712	0.1760	0.0283	0.0669	0.0952	0.0000	359.2729	359.2729	0.0631	0.0105	363.9711
Maximum	**0.8817**	**2.0937**	**1.9933**	**4.4900e-003**	**0.4076**	**0.0851**	**0.4926**	**0.1805**	**0.0795**	**0.2600**	**0.0000**	**414.0149**	**414.0149**	**0.0687**	**0.0249**	**423.1586**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**5-1-2022**	**7-31-2022**	1.1806	1.1806
2	**8-1-2022**	**10-31-2022**	0.6607	0.6607
3	**11-1-2022**	**1-31-2023**	0.6437	0.6437
4	**2-1-2023**	**4-30-2023**	0.5837	0.5837
5	**5-1-2023**	**7-31-2023**	0.6007	0.6007
6	**8-1-2023**	**9-30-2023**	0.3282	0.3282
		Highest	1.1806	1.1806

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6858	0.0120	1.0425	6.0000e-005		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	1.7034	1.7034	1.6500e-003	0.0000	1.7446
Energy	0.0139	0.1223	0.0763	7.6000e-004		9.6000e-003	9.6000e-003		9.6000e-003	9.6000e-003	0.0000	212.0822	212.0822	0.0147	3.9800e-003	213.6367
Mobile	1.5074	1.4459	10.0056	0.0147	1.4466	0.0133	1.4599	0.3875	0.0124	0.4000	0.0000	1,371.4454	1,371.4454	0.1536	0.0958	1,403.8215
Waste						0.0000	0.0000		0.0000	0.0000	29.5360	0.0000	29.5360	1.4646	0.0000	66.1508
Water						0.0000	0.0000		0.0000	0.0000	3.8664	7.3989	11.2654	0.0145	8.5500e-003	14.1769
Total	**2.2071**	**1.5802**	**11.1244**	**0.0155**	**1.4466**	**0.0287**	**1.4753**	**0.3875**	**0.0278**	**0.4153**	**33.4024**	**1,592.6300**	**1,626.0324**	**1.6491**	**0.1083**	**1,699.5305**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6858	0.0120	1.0425	6.0000e-005		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	1.7034	1.7034	1.6500e-003	0.0000	1.7446
Energy	0.0139	0.1223	0.0763	7.6000e-004		9.6000e-003	9.6000e-003		9.6000e-003	9.6000e-003	0.0000	212.0822	212.0822	0.0147	3.9800e-003	213.6367
Mobile	1.5074	1.4459	10.0056	0.0147	1.4466	0.0133	1.4599	0.3875	0.0124	0.4000	0.0000	1,371.4454	1,371.4454	0.1536	0.0958	1,403.8215
Waste						0.0000	0.0000		0.0000	0.0000	29.5360	0.0000	29.5360	1.4646	0.0000	66.1508
Water						0.0000	0.0000		0.0000	0.0000	3.0932	6.3047	9.3979	0.0117	6.8500e-003	11.7309
Total	**2.2071**	**1.5802**	**11.1244**	**0.0155**	**1.4466**	**0.0287**	**1.4753**	**0.3875**	**0.0278**	**0.4153**	**32.6291**	**1,591.5358**	**1,624.1649**	**1.6463**	**0.1066**	**1,697.0845**

	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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**2.32**	**0.07**	**0.11**	**0.17**	**1.57**	**0.14**

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	5/1/2022	5/27/2022	5	20	
2	Grading	Grading	5/28/2022	7/8/2022	5	30	
3	Building Construction	Building Construction	7/9/2022	9/1/2023	5	300	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	Paving	Paving	9/2/2023	10/13/2023	5	30	
5	Architectural Coating	Architectural Coating	10/14/2023	11/24/2023	5	30	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 30

Acres of Paving: 2.63

Residential Indoor: 283,500; Residential Outdoor: 94,500; Non-Residential Indoor: 12,165; Non-Residential Outdoor: 4,055; Striped Parking Area: 7,008 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	3,313.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	153.00	35.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3308	0.1970	3.8000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	33.4394	33.4394	0.0108	0.0000	33.7098
Total	**0.0317**	**0.3308**	**0.1970**	**3.8000e-004**	**0.1966**	**0.0161**	**0.2127**	**0.1010**	**0.0148**	**0.1159**	**0.0000**	**33.4394**	**33.4394**	**0.0108**	**0.0000**	**33.7098**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.7000e-004	3.8200e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8787	0.8787	4.0000e-005	3.0000e-005	0.8891
Total	**5.0000e-004**	**3.7000e-004**	**3.8200e-003**	**1.0000e-005**	**1.1100e-003**	**1.0000e-005**	**1.1200e-003**	**3.0000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**0.8787**	**0.8787**	**4.0000e-005**	**3.0000e-005**	**0.8891**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3308	0.1970	3.8000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	33.4394	33.4394	0.0108	0.0000	33.7097
Total	**0.0317**	**0.3308**	**0.1970**	**3.8000e-004**	**0.1966**	**0.0161**	**0.2127**	**0.1010**	**0.0148**	**0.1159**	**0.0000**	**33.4394**	**33.4394**	**0.0108**	**0.0000**	**33.7097**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.7000e-004	3.8200e-003	1.0000e-005	1.1100e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8787	0.8787	4.0000e-005	3.0000e-005	0.8891
Total	**5.0000e-004**	**3.7000e-004**	**3.8200e-003**	**1.0000e-005**	**1.1100e-003**	**1.0000e-005**	**1.1200e-003**	**3.0000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**0.8787**	**0.8787**	**4.0000e-005**	**3.0000e-005**	**0.8891**

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1084	0.0000	0.1084	0.0517	0.0000	0.0517	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0292	0.3128	0.2291	4.4000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	39.0822	39.0822	0.0126	0.0000	39.3982
Total	**0.0292**	**0.3128**	**0.2291**	**4.4000e-004**	**0.1084**	**0.0141**	**0.1225**	**0.0517**	**0.0130**	**0.0647**	**0.0000**	**39.0822**	**39.0822**	**0.0126**	**0.0000**	**39.3982**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4100e-003	0.3263	0.0746	1.0400e-003	0.0283	2.7300e-003	0.0310	7.7600e-003	2.6100e-003	0.0104	0.0000	106.8982	106.8982	6.9000e-003	0.0171	112.1688
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.7000e-004	4.7800e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0984	1.0984	5.0000e-005	4.0000e-005	1.1114
Total	**8.0300e-003**	**0.3268**	**0.0794**	**1.0500e-003**	**0.0297**	**2.7400e-003**	**0.0324**	**8.1300e-003**	**2.6200e-003**	**0.0108**	**0.0000**	**107.9966**	**107.9966**	**6.9500e-003**	**0.0172**	**113.2802**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1084	0.0000	0.1084	0.0517	0.0000	0.0517	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0292	0.3128	0.2291	4.4000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	39.0821	39.0821	0.0126	0.0000	39.3981
Total	**0.0292**	**0.3128**	**0.2291**	**4.4000e-004**	**0.1084**	**0.0141**	**0.1225**	**0.0517**	**0.0130**	**0.0647**	**0.0000**	**39.0821**	**39.0821**	**0.0126**	**0.0000**	**39.3981**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.4100e-003	0.3263	0.0746	1.0400e-003	0.0283	2.7300e-003	0.0310	7.7600e-003	2.6100e-003	0.0104	0.0000	106.8982	106.8982	6.9000e-003	0.0171	112.1688
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.7000e-004	4.7800e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0984	1.0984	5.0000e-005	4.0000e-005	1.1114
Total	**8.0300e-003**	**0.3268**	**0.0794**	**1.0500e-003**	**0.0297**	**2.7400e-003**	**0.0324**	**8.1300e-003**	**2.6200e-003**	**0.0108**	**0.0000**	**107.9966**	**107.9966**	**6.9500e-003**	**0.0172**	**113.2802**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1066	0.9760	1.0227	1.6800e-003		0.0506	0.0506		0.0476	0.0476	0.0000	144.8283	144.8283	0.0347	0.0000	145.6957
Total	**0.1066**	**0.9760**	**1.0227**	**1.6800e-003**		**0.0506**	**0.0506**		**0.0476**	**0.0476**	**0.0000**	**144.8283**	**144.8283**	**0.0347**	**0.0000**	**145.6957**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6700e-003	0.1271	0.0406	4.1000e-004	0.0127	1.1900e-003	0.0139	3.6700e-003	1.1400e-003	4.8200e-003	0.0000	41.1085	41.1085	1.6600e-003	6.0500e-003	42.9527
Worker	0.0265	0.0199	0.2031	5.1000e-004	0.0591	3.1000e-004	0.0594	0.0157	2.9000e-004	0.0160	0.0000	46.6816	46.6816	1.9400e-003	1.6900e-003	47.2333
Total	**0.0311**	**0.1469**	**0.2437**	**9.2000e-004**	**0.0718**	**1.5000e-003**	**0.0733**	**0.0194**	**1.4300e-003**	**0.0208**	**0.0000**	**87.7901**	**87.7901**	**3.6000e-003**	**7.7400e-003**	**90.1860**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1066	0.9760	1.0227	1.6800e-003		0.0506	0.0506		0.0476	0.0476	0.0000	144.8281	144.8281	0.0347	0.0000	145.6955
Total	**0.1066**	**0.9760**	**1.0227**	**1.6800e-003**		**0.0506**	**0.0506**		**0.0476**	**0.0476**	**0.0000**	**144.8281**	**144.8281**	**0.0347**	**0.0000**	**145.6955**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.6700e-003	0.1271	0.0406	4.1000e-004	0.0127	1.1900e-003	0.0139	3.6700e-003	1.1400e-003	4.8200e-003	0.0000	41.1085	41.1085	1.6600e-003	6.0500e-003	42.9527
Worker	0.0265	0.0199	0.2031	5.1000e-004	0.0591	3.1000e-004	0.0594	0.0157	2.9000e-004	0.0160	0.0000	46.6816	46.6816	1.9400e-003	1.6900e-003	47.2333
Total	**0.0311**	**0.1469**	**0.2437**	**9.2000e-004**	**0.0718**	**1.5000e-003**	**0.0733**	**0.0194**	**1.4300e-003**	**0.0208**	**0.0000**	**87.7901**	**87.7901**	**3.6000e-003**	**7.7400e-003**	**90.1860**

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	tons/yr										MT/yr					
Off-Road	0.1376	1.2587	1.4214	2.3600e-003		0.0612	0.0612		0.0576	0.0576	0.0000	202.8292	202.8292	0.0483	0.0000	204.0354
Total	**0.1376**	**1.2587**	**1.4214**	**2.3600e-003**		**0.0612**	**0.0612**		**0.0576**	**0.0576**	**0.0000**	**202.8292**	**202.8292**	**0.0483**	**0.0000**	**204.0354**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8800e-003	0.1485	0.0502	5.6000e-004	0.0178	8.6000e-004	0.0187	5.1400e-003	8.2000e-004	5.9600e-003	0.0000	55.5445	55.5445	2.3100e-003	8.1800e-003	58.0387
Worker	0.0345	0.0247	0.2623	6.9000e-004	0.0827	4.1000e-004	0.0831	0.0220	3.8000e-004	0.0224	0.0000	63.7440	63.7440	2.4600e-003	2.1800e-003	64.4564
Total	**0.0384**	**0.1731**	**0.3125**	**1.2500e-003**	**0.1005**	**1.2700e-003**	**0.1018**	**0.0271**	**1.2000e-003**	**0.0283**	**0.0000**	**119.2884**	**119.2884**	**4.7700e-003**	**0.0104**	**122.4951**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1376	1.2587	1.4214	2.3600e-003		0.0612	0.0612		0.0576	0.0576	0.0000	202.8289	202.8289	0.0483	0.0000	204.0352
Total	**0.1376**	**1.2587**	**1.4214**	**2.3600e-003**		**0.0612**	**0.0612**		**0.0576**	**0.0576**	**0.0000**	**202.8289**	**202.8289**	**0.0483**	**0.0000**	**204.0352**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.8800e-003	0.1485	0.0502	5.6000e-004	0.0178	8.6000e-004	0.0187	5.1400e-003	8.2000e-004	5.9600e-003	0.0000	55.5445	55.5445	2.3100e-003	8.1800e-003	58.0387
Worker	0.0345	0.0247	0.2623	6.9000e-004	0.0827	4.1000e-004	0.0831	0.0220	3.8000e-004	0.0224	0.0000	63.7440	63.7440	2.4600e-003	2.1800e-003	64.4564
Total	**0.0384**	**0.1731**	**0.3125**	**1.2500e-003**	**0.1005**	**1.2700e-003**	**0.1018**	**0.0271**	**1.2000e-003**	**0.0283**	**0.0000**	**119.2884**	**119.2884**	**4.7700e-003**	**0.0104**	**122.4951**

3.5 Paving - 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	tons/yr										MT/yr					
Off-Road	0.0155	0.1529	0.2188	3.4000e-004		7.6500e-003	7.6500e-003		7.0400e-003	7.0400e-003	0.0000	30.0403	30.0403	9.7200e-003	0.0000	30.2832
Paving	3.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0189**	**0.1529**	**0.2188**	**3.4000e-004**		**7.6500e-003**	**7.6500e-003**		**7.0400e-003**	**7.0400e-003**	**0.0000**	**30.0403**	**30.0403**	**9.7200e-003**	**0.0000**	**30.2832**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.1000e-004	4.4100e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0713	1.0713	4.0000e-005	4.0000e-005	1.0833
Total	**5.8000e-004**	**4.1000e-004**	**4.4100e-003**	**1.0000e-005**	**1.3900e-003**	**1.0000e-005**	**1.4000e-003**	**3.7000e-004**	**1.0000e-005**	**3.8000e-004**	**0.0000**	**1.0713**	**1.0713**	**4.0000e-005**	**4.0000e-005**	**1.0833**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0155	0.1529	0.2188	3.4000e-004		7.6500e-003	7.6500e-003		7.0400e-003	7.0400e-003	0.0000	30.0403	30.0403	9.7200e-003	0.0000	30.2832
Paving	3.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0189**	**0.1529**	**0.2188**	**3.4000e-004**		**7.6500e-003**	**7.6500e-003**		**7.0400e-003**	**7.0400e-003**	**0.0000**	**30.0403**	**30.0403**	**9.7200e-003**	**0.0000**	**30.2832**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.1000e-004	4.4100e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.0713	1.0713	4.0000e-005	4.0000e-005	1.0833
Total	**5.8000e-004**	**4.1000e-004**	**4.4100e-003**	**1.0000e-005**	**1.3900e-003**	**1.0000e-005**	**1.4000e-003**	**3.7000e-004**	**1.0000e-005**	**3.8000e-004**	**0.0000**	**1.0713**	**1.0713**	**4.0000e-005**	**4.0000e-005**	**1.0833**

3.6 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	0.6821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	**0.6850**	**0.0195**	**0.0272**	**4.0000e-005**		**1.0600e-003**	**1.0600e-003**		**1.0600e-003**	**1.0600e-003**	**0.0000**	**3.8299**	**3.8299**	**2.3000e-004**	**0.0000**	**3.8356**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	8.6000e-004	9.1100e-003	2.0000e-005	2.8700e-003	1.0000e-005	2.8900e-003	7.6000e-004	1.0000e-005	7.8000e-004	0.0000	2.2141	2.2141	9.0000e-005	8.0000e-005	2.2388
Total	**1.2000e-003**	**8.6000e-004**	**9.1100e-003**	**2.0000e-005**	**2.8700e-003**	**1.0000e-005**	**2.8900e-003**	**7.6000e-004**	**1.0000e-005**	**7.8000e-004**	**0.0000**	**2.2141**	**2.2141**	**9.0000e-005**	**8.0000e-005**	**2.2388**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6821					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	**0.6850**	**0.0195**	**0.0272**	**4.0000e-005**		**1.0600e-003**	**1.0600e-003**		**1.0600e-003**	**1.0600e-003**	**0.0000**	**3.8299**	**3.8299**	**2.3000e-004**	**0.0000**	**3.8356**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	8.6000e-004	9.1100e-003	2.0000e-005	2.8700e-003	1.0000e-005	2.8900e-003	7.6000e-004	1.0000e-005	7.8000e-004	0.0000	2.2141	2.2141	9.0000e-005	8.0000e-005	2.2388
Total	**1.2000e-003**	**8.6000e-004**	**9.1100e-003**	**2.0000e-005**	**2.8700e-003**	**1.0000e-005**	**2.8900e-003**	**7.6000e-004**	**1.0000e-005**	**7.8000e-004**	**0.0000**	**2.2141**	**2.2141**	**9.0000e-005**	**8.0000e-005**	**2.2388**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Mitigated	1.5074	1.4459	10.0056	0.0147	1.4466	0.0133	1.4599	0.3875	0.0124	0.4000	0.0000	1,371.4454	1,371.4454	0.1536	0.0958	1,403.8215
Unmitigated	1.5074	1.4459	10.0056	0.0147	1.4466	0.0133	1.4599	0.3875	0.0124	0.4000	0.0000	1,371.4454	1,371.4454	0.1536	0.0958	1,403.8215

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,024.80	1,139.60	879.20	1,890,216	1,890,216
Fast Food Restaurant with Drive Thru	2,557.26	3,345.53	2566.11	1,945,174	1,945,174
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Total	3,582.06	4,485.13	3,445.31	3,835,391	3,835,391

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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 Low Rise	8.30	4.50	4.90	25.60	9.90	64.50	86	11	3
Fast Food Restaurant with Drive	6.60	5.50	6.40	2.20	78.80	19.00	29	21	50
Parking Lot	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0
Racquet Club	6.60	5.50	6.40	11.50	69.50	19.00	52	39	9

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Fast Food Restaurant with Drive Thru	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Parking Lot	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Racquet Club	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	74.5568	74.5568	0.0121	1.4600e-003	75.2941
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	74.5568	74.5568	0.0121	1.4600e-003	75.2941
NaturalGas Mitigated	0.0139	0.1223	0.0763	7.6000e-004		9.6000e-003	9.6000e-003		9.6000e-003	9.6000e-003	0.0000	137.5254	137.5254	2.6400e-003	2.5200e-003	138.3427
NaturalGas Unmitigated	0.0139	0.1223	0.0763	7.6000e-004		9.6000e-003	9.6000e-003		9.6000e-003	9.6000e-003	0.0000	137.5254	137.5254	2.6400e-003	2.5200e-003	138.3427

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Apartments Low Rise	1.38149e+006	7.4500e-003	0.0637	0.0271	4.1000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	73.7216	73.7216	1.4100e-003	1.3500e-003	74.1597
Fast Food Restaurant with Drive Thru	1.12548e+006	6.0700e-003	0.0552	0.0463	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0597	60.0597	1.1500e-003	1.1000e-003	60.4166
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	70162.4	3.8000e-004	3.4400e-003	2.8900e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7441	3.7441	7.0000e-005	7.0000e-005	3.7664
Total		**0.0139**	**0.1223**	**0.0763**	**7.6000e-004**		**9.6000e-003**	**9.6000e-003**		**9.6000e-003**	**9.6000e-003**	**0.0000**	**137.5254**	**137.5254**	**2.6300e-003**	**2.5200e-003**	**138.3427**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Apartments Low Rise	1.38149e+006	7.4500e-003	0.0637	0.0271	4.1000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	73.7216	73.7216	1.4100e-003	1.3500e-003	74.1597
Fast Food Restaurant with Drive Thru	1.12548e+006	6.0700e-003	0.0552	0.0463	3.3000e-004		4.1900e-003	4.1900e-003		4.1900e-003	4.1900e-003	0.0000	60.0597	60.0597	1.1500e-003	1.1000e-003	60.4166
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	70162.4	3.8000e-004	3.4400e-003	2.8900e-003	2.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	3.7441	3.7441	7.0000e-005	7.0000e-005	3.7664
Total		**0.0139**	**0.1223**	**0.0763**	**7.6000e-004**		**9.6000e-003**	**9.6000e-003**		**9.6000e-003**	**9.6000e-003**	**0.0000**	**137.5254**	**137.5254**	**2.6300e-003**	**2.5200e-003**	**138.3427**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	568541	52.6036	8.5100e-003	1.0300e-003	53.1238
Fast Food Restaurant with Drive Thru	174683	16.1623	2.6100e-003	3.2000e-004	16.3222
Parking Lot	40880	3.7824	6.1000e-004	7.0000e-005	3.8198
Racquet Club	21708	2.0085	3.2000e-004	4.0000e-005	2.0284
Total		**74.5568**	**0.0121**	**1.4600e-003**	**75.2941**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	568541	52.6036	8.5100e-003	1.0300e-003	53.1238
Fast Food Restaurant with Drive Thru	174683	16.1623	2.6100e-003	3.2000e-004	16.3222
Parking Lot	40880	3.7824	6.1000e-004	7.0000e-005	3.8198
Racquet Club	21708	2.0085	3.2000e-004	4.0000e-005	2.0284
Total		**74.5568**	**0.0121**	**1.4600e-003**	**75.2941**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Mitigated	0.6858	0.0120	1.0425	6.0000e-005		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	1.7034	1.7034	1.6500e-003	0.0000	1.7446
Unmitigated	0.6858	0.0120	1.0425	6.0000e-005		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	1.7034	1.7034	1.6500e-003	0.0000	1.7446

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0682					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0316	0.0120	1.0425	6.0000e-005		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	1.7034	1.7034	1.6500e-003	0.0000	1.7446
Total	**0.6858**	**0.0120**	**1.0425**	**6.0000e-005**		**5.7600e-003**	**5.7600e-003**		**5.7600e-003**	**5.7600e-003**	**0.0000**	**1.7034**	**1.7034**	**1.6500e-003**	**0.0000**	**1.7446**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Architectural Coating	0.0682					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5860					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0316	0.0120	1.0425	6.0000e-005		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	1.7034	1.7034	1.6500e-003	0.0000	1.7446
Total	**0.6858**	**0.0120**	**1.0425**	**6.0000e-005**		**5.7600e-003**	**5.7600e-003**		**5.7600e-003**	**5.7600e-003**	**0.0000**	**1.7034**	**1.7034**	**1.6500e-003**	**0.0000**	**1.7446**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.3979	0.0117	6.8500e-003	11.7309
Unmitigated	11.2654	0.0145	8.5500e-003	14.1769

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	9.12156 / 5.75055	9.6561	0.0122	7.1400e-003	12.0888
Fast Food Restaurant with Drive Thru	1.64819 / 0.105203	1.4424	2.1500e-003	1.2800e-003	1.8789
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.158504 / 0.0971474	0.1669	2.1000e-004	1.2000e-004	0.2092
Total		**11.2654**	**0.0145**	**8.5400e-003**	**14.1769**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	7.29725 / 5.75055	8.0973	9.7800e-003	5.7200e-003	10.0472
Fast Food Restaurant with Drive Thru	1.31855 / 0.105203	1.1607	1.7200e-003	1.0300e-003	1.5100
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.126803 / 0.0971474	0.1398	1.7000e-004	1.0000e-004	0.1737
Total		**9.3979**	**0.0117**	**6.8500e-003**	**11.7309**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	29.5360	1.4646	0.0000	66.1508
Unmitigated	29.5360	1.4646	0.0000	66.1508

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	64.4	13.3735	0.6632	0.0000	29.9523
Fast Food Restaurant with Drive Thru	62.55	12.9893	0.6441	0.0000	29.0918
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	15.28	3.1731	0.1573	0.0000	7.1067
Total		**29.5360**	**1.4646**	**0.0000**	**66.1508**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	64.4	13.3735	0.6632	0.0000	29.9523
Fast Food Restaurant with Drive Thru	62.55	12.9893	0.6441	0.0000	29.0918
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	15.28	3.1731	0.1573	0.0000	7.1067
Total		**29.5360**	**1.4646**	**0.0000**	**66.1508**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number

11.0 Vegetation

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Park Edge Apartments Mixed-Use Project

Santa Barbara County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	292.00	Space	2.63	116,800.00	0
Fast Food Restaurant with Drive Thru	5.43	1000sqft	0.12	5,430.00	0
Racquet Club	2.68	1000sqft	0.06	2,680.00	0
Apartments Low Rise	140.00	Dwelling Unit	4.66	140,000.00	508

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.9	**Precipitation Freq (Days)**	37
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Data from Client

Land Use - Acreage & pop. from City of SM initial study/description
'Racket club' subtype used for proposed clubhouse
Drive thru assumed to occupy entire commercial space
Low Rise acreage=total acreage (7.47 acres) minus commercial acreage (2.81 acres)

Construction Phase - Adjusted total days to match project description construction schedule

Trips and VMT -

Grading - cut/fill data from project description

Architectural Coating -

Vehicle Trips - Assuming only residential clubhouse usage

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Area Coating -

Water Mitigation - Title 24

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblGrading	MaterialExported	0.00	6,200.00
tblGrading	MaterialImported	0.00	20,300.00
tblLandUse	LotAcreage	8.75	4.66
tblLandUse	Population	381.00	508.00
tblVehicleTrips	ST_TR	21.35	0.00
tblVehicleTrips	SU_TR	17.40	0.00
tblVehicleTrips	WD_TR	14.03	0.00

2.0 Emissions Summary

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	3.2193	41.8707	20.5383	0.1001	19.7707	1.6132	21.3839	10.1326	1.4841	11.6167	0.0000	10,808.9975	10,808.9975	1.4395	1.2597	11,220.3723
2023	45.7429	16.2769	19.7664	0.0413	1.1738	0.7142	1.8880	0.3161	0.6721	0.9882	0.0000	4,073.4837	4,073.4837	0.7168	0.1285	4,128.4202
Maximum	**45.7429**	**41.8707**	**20.5383**	**0.1001**	**19.7707**	**1.6132**	**21.3839**	**10.1326**	**1.4841**	**11.6167**	**0.0000**	**10,808.9975**	**10,808.9975**	**1.4395**	**1.2597**	**11,220.3723**

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					
2022	3.2193	41.8707	20.5383	0.1001	19.7707	1.6132	21.3839	10.1326	1.4841	11.6167	0.0000	10,808.9975	10,808.9975	1.4395	1.2597	11,220.3723
2023	45.7429	16.2769	19.7664	0.0413	1.1738	0.7142	1.8880	0.3161	0.6721	0.9882	0.0000	4,073.4837	4,073.4837	0.7168	0.1285	4,128.4202
Maximum	**45.7429**	**41.8707**	**20.5383**	**0.1001**	**19.7707**	**1.6132**	**21.3839**	**10.1326**	**1.4841**	**11.6167**	**0.0000**	**10,808.9975**	**10,808.9975**	**1.4395**	**1.2597**	**11,220.3723**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	N20	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

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	3.9356	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641	0.0000	20.8630	20.8630	0.0202	0.0000	21.3673
Energy	0.0761	0.6700	0.4182	4.1500e-003		0.0526	0.0526		0.0526	0.0526		830.6621	830.6621	0.0159	0.0152	835.5983
Mobile	10.3398	8.8586	61.2657	0.0973	9.6331	0.0872	9.7203	2.5759	0.0815	2.6574		10,008.6060	10,008.6060	1.0401	0.6627	10,232.0893
Total	**14.3514**	**9.6620**	**73.2673**	**0.1021**	**9.6331**	**0.2039**	**9.8370**	**2.5759**	**0.1981**	**2.7740**	**0.0000**	**10,860.1310**	**10,860.1310**	**1.0762**	**0.6779**	**11,089.0548**

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	3.9356	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641	0.0000	20.8630	20.8630	0.0202	0.0000	21.3673
Energy	0.0761	0.6700	0.4182	4.1500e-003		0.0526	0.0526		0.0526	0.0526		830.6621	830.6621	0.0159	0.0152	835.5983
Mobile	10.3398	8.8586	61.2657	0.0973	9.6331	0.0872	9.7203	2.5759	0.0815	2.6574		10,008.6060	10,008.6060	1.0401	0.6627	10,232.0893
Total	**14.3514**	**9.6620**	**73.2673**	**0.1021**	**9.6331**	**0.2039**	**9.8370**	**2.5759**	**0.1981**	**2.7740**	**0.0000**	**10,860.1310**	**10,860.1310**	**1.0762**	**0.6779**	**11,089.0548**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	N20	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	5/1/2022	5/27/2022	5	20	
2	Grading	Grading	5/28/2022	7/8/2022	5	30	
3	Building Construction	Building Construction	7/9/2022	9/1/2023	5	300	
4	Paving	Paving	9/2/2023	10/13/2023	5	30	
5	Architectural Coating	Architectural Coating	10/14/2023	11/24/2023	5	30	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 30

Acres of Paving: 2.63

Residential Indoor: 283,500; Residential Outdoor: 94,500; Non-Residential Indoor: 12,165; Non-Residential Outdoor: 4,055; Striped Parking Area: 7,008 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	3,313.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	153.00	35.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

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	0.0491	0.0336	0.3778	9.7000e-004	0.1137	5.9000e-004	0.1143	0.0302	5.4000e-004	0.0307		98.7793	98.7793	3.7900e-003	3.2600e-003	99.8457
Total	**0.0491**	**0.0336**	**0.3778**	**9.7000e-004**	**0.1137**	**5.9000e-004**	**0.1143**	**0.0302**	**5.4000e-004**	**0.0307**		**98.7793**	**98.7793**	**3.7900e-003**	**3.2600e-003**	**99.8457**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

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	0.0491	0.0336	0.3778	9.7000e-004	0.1137	5.9000e-004	0.1143	0.0302	5.4000e-004	0.0307		98.7793	98.7793	3.7900e-003	3.2600e-003	99.8457
Total	**0.0491**	**0.0336**	**0.3778**	**9.7000e-004**	**0.1137**	**5.9000e-004**	**0.1143**	**0.0302**	**5.4000e-004**	**0.0307**		**98.7793**	**98.7793**	**3.7900e-003**	**3.2600e-003**	**99.8457**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2257	0.0000	7.2257	3.4464	0.0000	3.4464			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.2257**	**0.9409**	**8.1665**	**3.4464**	**0.8656**	**4.3120**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

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	0.4989	20.9875	4.9508	0.0696	1.9232	0.1819	2.1051	0.5264	0.1740	0.7004		7,854.6350	7,854.6350	0.5074	1.2570	8,241.8992
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	0.0409	0.0280	0.3148	8.1000e-004	0.0947	4.9000e-004	0.0952	0.0251	4.5000e-004	0.0256		82.3161	82.3161	3.1500e-003	2.7200e-003	83.2047
Total	**0.5398**	**21.0155**	**5.2656**	**0.0704**	**2.0179**	**0.1824**	**2.2003**	**0.5515**	**0.1745**	**0.7260**		**7,936.9511**	**7,936.9511**	**0.5106**	**1.2597**	**8,325.1040**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2257	0.0000	7.2257	3.4464	0.0000	3.4464			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.2257**	**0.9409**	**8.1665**	**3.4464**	**0.8656**	**4.3120**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

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	0.4989	20.9875	4.9508	0.0696	1.9232	0.1819	2.1051	0.5264	0.1740	0.7004		7,854.6350	7,854.6350	0.5074	1.2570	8,241.8992
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	0.0409	0.0280	0.3148	8.1000e-004	0.0947	4.9000e-004	0.0952	0.0251	4.5000e-004	0.0256		82.3161	82.3161	3.1500e-003	2.7200e-003	83.2047
Total	**0.5398**	**21.0155**	**5.2656**	**0.0704**	**2.0179**	**0.1824**	**2.2003**	**0.5515**	**0.1745**	**0.7260**		**7,936.9511**	**7,936.9511**	**0.5106**	**1.2597**	**8,325.1040**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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	0.0750	1.9645	0.6409	6.6300e-003	0.2075	0.0191	0.2266	0.0597	0.0183	0.0780		724.9145	724.9145	0.0293	0.1066	757.4025
Worker	0.4176	0.2857	3.2110	8.2500e-003	0.9663	5.0100e-003	0.9713	0.2564	4.6200e-003	0.2610		839.6240	839.6240	0.0322	0.0277	848.6881
Total	**0.4926**	**2.2501**	**3.8519**	**0.0149**	**1.1738**	**0.0241**	**1.1979**	**0.3161**	**0.0229**	**0.3389**		**1,564.5385**	**1,564.5385**	**0.0615**	**0.1343**	**1,606.0906**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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	0.0750	1.9645	0.6409	6.6300e-003	0.2075	0.0191	0.2266	0.0597	0.0183	0.0780		724.9145	724.9145	0.0293	0.1066	757.4025
Worker	0.4176	0.2857	3.2110	8.2500e-003	0.9663	5.0100e-003	0.9713	0.2564	4.6200e-003	0.2610		839.6240	839.6240	0.0322	0.0277	848.6881
Total	**0.4926**	**2.2501**	**3.8519**	**0.0149**	**1.1738**	**0.0241**	**1.1979**	**0.3161**	**0.0229**	**0.3389**		**1,564.5385**	**1,564.5385**	**0.0615**	**0.1343**	**1,606.0906**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.5728	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	0.0447	1.6391	0.5656	6.3800e-003	0.2075	9.7600e-003	0.2173	0.0597	9.3400e-003	0.0691		699.3869	699.3869	0.0291	0.1029	730.7657
Worker	0.3888	0.2530	2.9568	8.0000e-003	0.9663	4.7300e-003	0.9710	0.2564	4.3600e-003	0.2607		818.8869	818.8869	0.0291	0.0256	827.2484
Total	**0.4335**	**1.8920**	**3.5224**	**0.0144**	**1.1738**	**0.0145**	**1.1883**	**0.3161**	**0.0137**	**0.3298**		**1,518.2738**	**1,518.2738**	**0.0582**	**0.1285**	**1,558.0142**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0447	1.6391	0.5656	6.3800e-003	0.2075	9.7600e-003	0.2173	0.0597	9.3400e-003	0.0691		699.3869	699.3869	0.0291	0.1029	730.7657
Worker	0.3888	0.2530	2.9568	8.0000e-003	0.9663	4.7300e-003	0.9710	0.2564	4.3600e-003	0.2607		818.8869	818.8869	0.0291	0.0256	827.2484
Total	**0.4335**	**1.8920**	**3.5224**	**0.0144**	**1.1738**	**0.0145**	**1.1883**	**0.3161**	**0.0137**	**0.3298**		**1,518.2738**	**1,518.2738**	**0.0582**	**0.1285**	**1,558.0142**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2624**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

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	0.0381	0.0248	0.2899	7.8000e-004	0.0947	4.6000e-004	0.0952	0.0251	4.3000e-004	0.0256		80.2830	80.2830	2.8500e-003	2.5100e-003	81.1028
Total	**0.0381**	**0.0248**	**0.2899**	**7.8000e-004**	**0.0947**	**4.6000e-004**	**0.0952**	**0.0251**	**4.3000e-004**	**0.0256**		**80.2830**	**80.2830**	**2.8500e-003**	**2.5100e-003**	**81.1028**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2624**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

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	0.0381	0.0248	0.2899	7.8000e-004	0.0947	4.6000e-004	0.0952	0.0251	4.3000e-004	0.0256		80.2830	80.2830	2.8500e-003	2.5100e-003	81.1028
Total	**0.0381**	**0.0248**	**0.2899**	**7.8000e-004**	**0.0947**	**4.6000e-004**	**0.0952**	**0.0251**	**4.3000e-004**	**0.0256**		**80.2830**	**80.2830**	**2.8500e-003**	**2.5100e-003**	**81.1028**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 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					
Archit. Coating	45.4724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**45.6641**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

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	0.0788	0.0513	0.5991	1.6200e-003	0.1958	9.6000e-004	0.1967	0.0519	8.8000e-004	0.0528		165.9183	165.9183	5.9000e-003	5.1900e-003	167.6124
Total	**0.0788**	**0.0513**	**0.5991**	**1.6200e-003**	**0.1958**	**9.6000e-004**	**0.1967**	**0.0519**	**8.8000e-004**	**0.0528**		**165.9183**	**165.9183**	**5.9000e-003**	**5.1900e-003**	**167.6124**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 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					
Archit. Coating	45.4724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**45.6641**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

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	0.0788	0.0513	0.5991	1.6200e-003	0.1958	9.6000e-004	0.1967	0.0519	8.8000e-004	0.0528		165.9183	165.9183	5.9000e-003	5.1900e-003	167.6124
Total	**0.0788**	**0.0513**	**0.5991**	**1.6200e-003**	**0.1958**	**9.6000e-004**	**0.1967**	**0.0519**	**8.8000e-004**	**0.0528**		**165.9183**	**165.9183**	**5.9000e-003**	**5.1900e-003**	**167.6124**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	10.3398	8.8586	61.2657	0.0973	9.6331	0.0872	9.7203	2.5759	0.0815	2.6574		10,008.6060	10,008.6060	1.0401	0.6627	10,232.0893
Unmitigated	10.3398	8.8586	61.2657	0.0973	9.6331	0.0872	9.7203	2.5759	0.0815	2.6574		10,008.6060	10,008.6060	1.0401	0.6627	10,232.0893

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,024.80	1,139.60	879.20	1,890,216	1,890,216
Fast Food Restaurant with Drive Thru	2,557.26	3,345.53	2566.11	1,945,174	1,945,174
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Total	3,582.06	4,485.13	3,445.31	3,835,391	3,835,391

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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 Low Rise	8.30	4.50	4.90	25.60	9.90	64.50	86	11	3
Fast Food Restaurant with Drive	6.60	5.50	6.40	2.20	78.80	19.00	29	21	50
Parking Lot	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Racquet Club	6.60	5.50	6.40	11.50	69.50	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Fast Food Restaurant with Drive Thru	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Parking Lot	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Racquet Club	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272

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	0.0761	0.6700	0.4182	4.1500e-003		0.0526	0.0526		0.0526	0.0526		830.6621	830.6621	0.0159	0.0152	835.5983
NaturalGas Unmitigated	0.0761	0.6700	0.4182	4.1500e-003		0.0526	0.0526		0.0526	0.0526		830.6621	830.6621	0.0159	0.0152	835.5983

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Apartments Low Rise	3784.91	0.0408	0.3488	0.1484	2.2300e-003		0.0282	0.0282		0.0282	0.0282		445.2830	445.2830	8.5300e-003	8.1600e-003	447.9291
Fast Food Restaurant with Drive Thru	3083.5	0.0333	0.3023	0.2539	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7643	362.7643	6.9500e-003	6.6500e-003	364.9200
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
Racquet Club	192.226	2.0700e-003	0.0189	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003		22.6148	22.6148	4.3000e-004	4.1000e-004	22.7492
Total		**0.0761**	**0.6700**	**0.4182**	**4.1500e-003**		**0.0526**	**0.0526**		**0.0526**	**0.0526**		**830.6621**	**830.6621**	**0.0159**	**0.0152**	**835.5983**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 Low Rise	3.78491	0.0408	0.3488	0.1484	2.2300e-003		0.0282	0.0282		0.0282	0.0282		445.2830	445.2830	8.5300e-003	8.1600e-003	447.9291
Fast Food Restaurant with Drive Thru	3.0835	0.0333	0.3023	0.2539	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7643	362.7643	6.9500e-003	6.6500e-003	364.9200
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
Racquet Club	0.192226	2.0700e-003	0.0189	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003		22.6148	22.6148	4.3000e-004	4.1000e-004	22.7492
Total		**0.0761**	**0.6700**	**0.4182**	**4.1500e-003**		**0.0526**	**0.0526**		**0.0526**	**0.0526**		**830.6621**	**830.6621**	**0.0159**	**0.0152**	**835.5983**

6.0 Area Detail

6.1 Mitigation Measures Area

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.9356	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641	0.0000	20.8630	20.8630	0.0202	0.0000	21.3673
Unmitigated	3.9356	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641	0.0000	20.8630	20.8630	0.0202	0.0000	21.3673

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	0.3738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3509	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641		20.8630	20.8630	0.0202		21.3673
Total	**3.9356**	**0.1335**	**11.5834**	**6.1000e-004**		**0.0641**	**0.0641**		**0.0641**	**0.0641**	**0.0000**	**20.8630**	**20.8630**	**0.0202**	**0.0000**	**21.3673**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.3738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3509	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641		20.8630	20.8630	0.0202		21.3673
Total	**3.9356**	**0.1335**	**11.5834**	**6.1000e-004**		**0.0641**	**0.0641**		**0.0641**	**0.0641**	**0.0000**	**20.8630**	**20.8630**	**0.0202**	**0.0000**	**21.3673**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Park Edge Apartments Mixed-Use Project

Santa Barbara County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	292.00	Space	2.63	116,800.00	0
Fast Food Restaurant with Drive Thru	5.43	1000sqft	0.12	5,430.00	0
Racquet Club	2.68	1000sqft	0.06	2,680.00	0
Apartments Low Rise	140.00	Dwelling Unit	4.66	140,000.00	508

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.9	**Precipitation Freq (Days)**	37
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project Data from Client

Land Use - Acreage & pop. from City of SM initial study/description
'Racket club' subtype used for proposed clubhouse
Drive thru assumed to occupy entire commercial space
Low Rise acreage=total acreage (7.47 acres) minus commercial acreage (2.81 acres)

Construction Phase - Adjusted total days to match project description construction schedule

Trips and VMT -

Grading - cut/fill data from project description

Architectural Coating -

Vehicle Trips - Assuming only residential clubhouse usage

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Area Coating -

Water Mitigation - Title 24

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	20.00
tblGrading	MaterialExported	0.00	6,200.00
tblGrading	MaterialImported	0.00	20,300.00
tblLandUse	LotAcreage	8.75	4.66
tblLandUse	Population	381.00	508.00
tblVehicleTrips	ST_TR	21.35	0.00
tblVehicleTrips	SU_TR	17.40	0.00
tblVehicleTrips	WD_TR	14.03	0.00

2.0 Emissions Summary

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	3.2235	42.4281	20.6062	0.1001	19.7707	1.6132	21.3839	10.1326	1.4841	11.6167	0.0000	10,809.7898	10,809.7898	1.4390	1.2604	11,221.3670
2023	45.7498	16.3640	19.9027	0.0412	1.1738	0.7143	1.8880	0.3161	0.6722	0.9882	0.0000	4,057.6486	4,057.6486	0.7171	0.1311	4,113.4541
Maximum	**45.7498**	**42.4281**	**20.6062**	**0.1001**	**19.7707**	**1.6132**	**21.3839**	**10.1326**	**1.4841**	**11.6167**	**0.0000**	**10,809.7898**	**10,809.7898**	**1.4390**	**1.2604**	**11,221.3670**

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					
2022	3.2235	42.4281	20.6062	0.1001	19.7707	1.6132	21.3839	10.1326	1.4841	11.6167	0.0000	10,809.7898	10,809.7898	1.4390	1.2604	11,221.3670
2023	45.7498	16.3640	19.9027	0.0412	1.1738	0.7143	1.8880	0.3161	0.6722	0.9882	0.0000	4,057.6486	4,057.6486	0.7171	0.1311	4,113.4540
Maximum	**45.7498**	**42.4281**	**20.6062**	**0.1001**	**19.7707**	**1.6132**	**21.3839**	**10.1326**	**1.4841**	**11.6167**	**0.0000**	**10,809.7898**	**10,809.7898**	**1.4390**	**1.2604**	**11,221.3670**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	N20	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

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	3.9356	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641	0.0000	20.8630	20.8630	0.0202	0.0000	21.3673
Energy	0.0761	0.6700	0.4182	4.1500e-003		0.0526	0.0526		0.0526	0.0526		830.6621	830.6621	0.0159	0.0152	835.5983
Mobile	10.0726	9.6529	69.2496	0.0960	9.6331	0.0874	9.7205	2.5759	0.0816	2.6575		9,874.3186	9,874.3186	1.1712	0.7086	10,114.7630
Total	**14.0843**	**10.4563**	**81.2511**	**0.1008**	**9.6331**	**0.2040**	**9.8371**	**2.5759**	**0.1983**	**2.7741**	**0.0000**	**10,725.8437**	**10,725.8437**	**1.2073**	**0.7238**	**10,971.7286**

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	3.9356	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641	0.0000	20.8630	20.8630	0.0202	0.0000	21.3673
Energy	0.0761	0.6700	0.4182	4.1500e-003		0.0526	0.0526		0.0526	0.0526		830.6621	830.6621	0.0159	0.0152	835.5983
Mobile	10.0726	9.6529	69.2496	0.0960	9.6331	0.0874	9.7205	2.5759	0.0816	2.6575		9,874.3186	9,874.3186	1.1712	0.7086	10,114.7630
Total	**14.0843**	**10.4563**	**81.2511**	**0.1008**	**9.6331**	**0.2040**	**9.8371**	**2.5759**	**0.1983**	**2.7741**	**0.0000**	**10,725.8437**	**10,725.8437**	**1.2073**	**0.7238**	**10,971.7286**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	N20	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	5/1/2022	5/27/2022	5	20	
2	Grading	Grading	5/28/2022	7/8/2022	5	30	
3	Building Construction	Building Construction	7/9/2022	9/1/2023	5	300	
4	Paving	Paving	9/2/2023	10/13/2023	5	30	
5	Architectural Coating	Architectural Coating	10/14/2023	11/24/2023	5	30	

Acres of Grading (Site Preparation Phase): 30

Acres of Grading (Grading Phase): 30

Acres of Paving: 2.63

Residential Indoor: 283,500; Residential Outdoor: 94,500; Non-Residential Indoor: 12,165; Non-Residential Outdoor: 4,055; Striped Parking Area: 7,008 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	3,313.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	153.00	35.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	31.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

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	0.0533	0.0384	0.3921	9.5000e-004	0.1137	5.9000e-004	0.1143	0.0302	5.4000e-004	0.0307		96.7606	96.7606	4.1800e-003	3.5700e-003	97.9293
Total	**0.0533**	**0.0384**	**0.3921**	**9.5000e-004**	**0.1137**	**5.9000e-004**	**0.1143**	**0.0302**	**5.4000e-004**	**0.0307**		**96.7606**	**96.7606**	**4.1800e-003**	**3.5700e-003**	**97.9293**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**19.6570**	**1.6126**	**21.2696**	**10.1025**	**1.4836**	**11.5860**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

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	0.0533	0.0384	0.3921	9.5000e-004	0.1137	5.9000e-004	0.1143	0.0302	5.4000e-004	0.0307		96.7606	96.7606	4.1800e-003	3.5700e-003	97.9293
Total	**0.0533**	**0.0384**	**0.3921**	**9.5000e-004**	**0.1137**	**5.9000e-004**	**0.1143**	**0.0302**	**5.4000e-004**	**0.0307**		**96.7606**	**96.7606**	**4.1800e-003**	**3.5700e-003**	**97.9293**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2257	0.0000	7.2257	3.4464	0.0000	3.4464			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.2257**	**0.9409**	**8.1665**	**3.4464**	**0.8656**	**4.3120**		**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

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	0.4879	21.5410	5.0068	0.0696	1.9232	0.1822	2.1054	0.5264	0.1743	0.7007		7,857.1095	7,857.1095	0.5066	1.2574	8,244.4909
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	0.0444	0.0320	0.3267	7.9000e-004	0.0947	4.9000e-004	0.0952	0.0251	4.5000e-004	0.0256		80.6339	80.6339	3.4800e-003	2.9800e-003	81.6078
Total	**0.5324**	**21.5730**	**5.3335**	**0.0704**	**2.0179**	**0.1827**	**2.2006**	**0.5515**	**0.1748**	**0.7263**		**7,937.7433**	**7,937.7433**	**0.5101**	**1.2604**	**8,326.0987**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2257	0.0000	7.2257	3.4464	0.0000	3.4464			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	**1.9486**	**20.8551**	**15.2727**	**0.0297**	**7.2257**	**0.9409**	**8.1665**	**3.4464**	**0.8656**	**4.3120**	**0.0000**	**2,872.0464**	**2,872.0464**	**0.9289**		**2,895.2684**

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	0.4879	21.5410	5.0068	0.0696	1.9232	0.1822	2.1054	0.5264	0.1743	0.7007		7,857.1095	7,857.1095	0.5066	1.2574	8,244.4909
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	0.0444	0.0320	0.3267	7.9000e-004	0.0947	4.9000e-004	0.0952	0.0251	4.5000e-004	0.0256		80.6339	80.6339	3.4800e-003	2.9800e-003	81.6078
Total	**0.5324**	**21.5730**	**5.3335**	**0.0704**	**2.0179**	**0.1827**	**2.2006**	**0.5515**	**0.1748**	**0.7263**		**7,937.7433**	**7,937.7433**	**0.5101**	**1.2604**	**8,326.0987**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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	0.0748	2.0188	0.6587	6.6400e-003	0.2075	0.0192	0.2267	0.0597	0.0183	0.0780		725.2016	725.2016	0.0292	0.1067	757.7348
Worker	0.4532	0.3266	3.3326	8.0800e-003	0.9663	5.0100e-003	0.9713	0.2564	4.6200e-003	0.2610		822.4654	822.4654	0.0355	0.0304	832.3993
Total	**0.5280**	**2.3453**	**3.9912**	**0.0147**	**1.1738**	**0.0242**	**1.1979**	**0.3161**	**0.0229**	**0.3390**		**1,547.6669**	**1,547.6669**	**0.0647**	**0.1371**	**1,590.1340**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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	0.0748	2.0188	0.6587	6.6400e-003	0.2075	0.0192	0.2267	0.0597	0.0183	0.0780		725.2016	725.2016	0.0292	0.1067	757.7348
Worker	0.4532	0.3266	3.3326	8.0800e-003	0.9663	5.0100e-003	0.9713	0.2564	4.6200e-003	0.2610		822.4654	822.4654	0.0355	0.0304	832.3993
Total	**0.5280**	**2.3453**	**3.9912**	**0.0147**	**1.1738**	**0.0242**	**1.1979**	**0.3161**	**0.0229**	**0.3390**		**1,547.6669**	**1,547.6669**	**0.0647**	**0.1371**	**1,590.1340**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.5728	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	0.0441	1.6899	0.5811	6.3900e-003	0.2075	9.8100e-003	0.2173	0.0597	9.3800e-003	0.0691		700.2385	700.2385	0.0290	0.1031	731.6845
Worker	0.4229	0.2892	3.0776	7.8400e-003	0.9663	4.7300e-003	0.9710	0.2564	4.3600e-003	0.2607		802.2002	802.2002	0.0322	0.0281	811.3635
Total	**0.4670**	**1.9791**	**3.6587**	**0.0142**	**1.1738**	**0.0145**	**1.1883**	**0.3161**	**0.0137**	**0.3298**		**1,502.4387**	**1,502.4387**	**0.0612**	**0.1311**	**1,543.0480**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0441	1.6899	0.5811	6.3900e-003	0.2075	9.8100e-003	0.2173	0.0597	9.3800e-003	0.0691		700.2385	700.2385	0.0290	0.1031	731.6845
Worker	0.4229	0.2892	3.0776	7.8400e-003	0.9663	4.7300e-003	0.9710	0.2564	4.3600e-003	0.2607		802.2002	802.2002	0.0322	0.0281	811.3635
Total	**0.4670**	**1.9791**	**3.6587**	**0.0142**	**1.1738**	**0.0145**	**1.1883**	**0.3161**	**0.0137**	**0.3298**		**1,502.4387**	**1,502.4387**	**0.0612**	**0.1311**	**1,543.0480**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2624**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

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	0.0415	0.0284	0.3017	7.7000e-004	0.0947	4.6000e-004	0.0952	0.0251	4.3000e-004	0.0256		78.6471	78.6471	3.1600e-003	2.7500e-003	79.5454
Total	**0.0415**	**0.0284**	**0.3017**	**7.7000e-004**	**0.0947**	**4.6000e-004**	**0.0952**	**0.0251**	**4.3000e-004**	**0.0256**		**78.6471**	**78.6471**	**3.1600e-003**	**2.7500e-003**	**79.5454**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2624**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

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	0.0415	0.0284	0.3017	7.7000e-004	0.0947	4.6000e-004	0.0952	0.0251	4.3000e-004	0.0256		78.6471	78.6471	3.1600e-003	2.7500e-003	79.5454
Total	**0.0415**	**0.0284**	**0.3017**	**7.7000e-004**	**0.0947**	**4.6000e-004**	**0.0952**	**0.0251**	**4.3000e-004**	**0.0256**		**78.6471**	**78.6471**	**3.1600e-003**	**2.7500e-003**	**79.5454**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 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					
Archit. Coating	45.4724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	**45.6641**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**		**281.4481**	**281.4481**	**0.0168**		**281.8690**

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	0.0857	0.0586	0.6236	1.5900e-003	0.1958	9.6000e-004	0.1967	0.0519	8.8000e-004	0.0528		162.5373	162.5373	6.5200e-003	5.6800e-003	164.3939
Total	**0.0857**	**0.0586**	**0.6236**	**1.5900e-003**	**0.1958**	**9.6000e-004**	**0.1967**	**0.0519**	**8.8000e-004**	**0.0528**		**162.5373**	**162.5373**	**6.5200e-003**	**5.6800e-003**	**164.3939**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 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					
Archit. Coating	45.4724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	**45.6641**	**1.3030**	**1.8111**	**2.9700e-003**		**0.0708**	**0.0708**		**0.0708**	**0.0708**	**0.0000**	**281.4481**	**281.4481**	**0.0168**		**281.8690**

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	0.0857	0.0586	0.6236	1.5900e-003	0.1958	9.6000e-004	0.1967	0.0519	8.8000e-004	0.0528		162.5373	162.5373	6.5200e-003	5.6800e-003	164.3939
Total	**0.0857**	**0.0586**	**0.6236**	**1.5900e-003**	**0.1958**	**9.6000e-004**	**0.1967**	**0.0519**	**8.8000e-004**	**0.0528**		**162.5373**	**162.5373**	**6.5200e-003**	**5.6800e-003**	**164.3939**

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	10.0726	9.6529	69.2496	0.0960	9.6331	0.0874	9.7205	2.5759	0.0816	2.6575		9,874.3186	9,874.3186	1.1712	0.7086	10,114.7630
Unmitigated	10.0726	9.6529	69.2496	0.0960	9.6331	0.0874	9.7205	2.5759	0.0816	2.6575		9,874.3186	9,874.3186	1.1712	0.7086	10,114.7630

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,024.80	1,139.60	879.20	1,890,216	1,890,216
Fast Food Restaurant with Drive Thru	2,557.26	3,345.53	2566.11	1,945,174	1,945,174
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Total	3,582.06	4,485.13	3,445.31	3,835,391	3,835,391

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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 Low Rise	8.30	4.50	4.90	25.60	9.90	64.50	86	11	3
Fast Food Restaurant with Drive	6.60	5.50	6.40	2.20	78.80	19.00	29	21	50
Parking Lot	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	Miles			Trip %			Trip Purpose %		
Land Use	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
Racquet Club	6.60	5.50	6.40	11.50	69.50	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Fast Food Restaurant with Drive Thru	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Parking Lot	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Racquet Club	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272

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	0.0761	0.6700	0.4182	4.1500e-003		0.0526	0.0526		0.0526	0.0526		830.6621	830.6621	0.0159	0.0152	835.5983
NaturalGas Unmitigated	0.0761	0.6700	0.4182	4.1500e-003		0.0526	0.0526		0.0526	0.0526		830.6621	830.6621	0.0159	0.0152	835.5983

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Apartments Low Rise	3784.91	0.0408	0.3488	0.1484	2.2300e-003		0.0282	0.0282		0.0282	0.0282		445.2830	445.2830	8.5300e-003	8.1600e-003	447.9291
Fast Food Restaurant with Drive Thru	3083.5	0.0333	0.3023	0.2539	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7643	362.7643	6.9500e-003	6.6500e-003	364.9200
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
Racquet Club	192.226	2.0700e-003	0.0189	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003		22.6148	22.6148	4.3000e-004	4.1000e-004	22.7492
Total		**0.0761**	**0.6700**	**0.4182**	**4.1500e-003**		**0.0526**	**0.0526**		**0.0526**	**0.0526**		**830.6621**	**830.6621**	**0.0159**	**0.0152**	**835.5983**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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 Low Rise	3.78491	0.0408	0.3488	0.1484	2.2300e-003		0.0282	0.0282		0.0282	0.0282		445.2830	445.2830	8.5300e-003	8.1600e-003	447.9291
Fast Food Restaurant with Drive Thru	3.0835	0.0333	0.3023	0.2539	1.8100e-003		0.0230	0.0230		0.0230	0.0230		362.7643	362.7643	6.9500e-003	6.6500e-003	364.9200
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
Racquet Club	0.192226	2.0700e-003	0.0189	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003		22.6148	22.6148	4.3000e-004	4.1000e-004	22.7492
Total		**0.0761**	**0.6700**	**0.4182**	**4.1500e-003**		**0.0526**	**0.0526**		**0.0526**	**0.0526**		**830.6621**	**830.6621**	**0.0159**	**0.0152**	**835.5983**

6.0 Area Detail

6.1 Mitigation Measures Area

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	3.9356	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641	0.0000	20.8630	20.8630	0.0202	0.0000	21.3673
Unmitigated	3.9356	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641	0.0000	20.8630	20.8630	0.0202	0.0000	21.3673

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	0.3738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3509	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641		20.8630	20.8630	0.0202		21.3673
Total	**3.9356**	**0.1335**	**11.5834**	**6.1000e-004**		**0.0641**	**0.0641**		**0.0641**	**0.0641**	**0.0000**	**20.8630**	**20.8630**	**0.0202**	**0.0000**	**21.3673**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.3738					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.2109					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3509	0.1335	11.5834	6.1000e-004		0.0641	0.0641		0.0641	0.0641		20.8630	20.8630	0.0202		21.3673
Total	**3.9356**	**0.1335**	**11.5834**	**6.1000e-004**		**0.0641**	**0.0641**		**0.0641**	**0.0641**	**0.0000**	**20.8630**	**20.8630**	**0.0202**	**0.0000**	**21.3673**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Park Edge Apartments Mixed-Use Project - Santa Barbara County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

21-10971 Park Edge Apts

Last Updated: 9/27/21

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors **[1]**:

HP: 0 to 100	0.0588	HP: Greater than 100	0.0529

Values above are expressed in gallons per horsepower-hour/BSFC.

CONSTRUCTION EQUIPMENT

Construction Equipment	#	Hours per Day	Horsepower	Load Factor	Construction Phase	Fuel Used (gallons)
Tractors/Loaders/Backhoes	4	8	97	0.37	Site Preparation Phase	1,349.79
Rubber Tired Dozers	3	8	247	0.4	Site Preparation Phase	2,506.78
Graders	1	8	187	0.41	Grading Phase	972.65
Excavators	1	8	158	0.38	Grading Phase	761.68
Rubber Tired Dozers	1	8	247	0.4	Grading Phase	1,253.39
Tractors/Loaders/Backhoes	3	8	97	0.37	Grading Phase	1,518.51
Cranes	1	8	231	0.29	Building Construction Phase	8,498.46
Forklifts	3	8	89	0.2	Building Construction Phase	7,531.22
Generator Sets	1	8	84	0.74	Building Construction Phase	8,766.68
Tractors/Loaders/Backhoes	3	8	97	0.37	Building Construction Phase	15,185.15
Welders	1	8	46	0.45	Building Construction Phase	2,919.41
Air Compressors	1	8	78	0.48	Architectural Coating Phase	528.03
Pavers	2	8	130	0.42	Paving Phase	1,385.33
Paving Equipment	2	8	132	0.36	Paving Phase	1,205.69
Rollers	2	8	80	0.38	Paving Phase	857.49
					Total Fuel Used	**55,240.26**
						(Gallons)

Construction Phase	Days of Operation
Site Preparation Phase	20
Grading Phase	30
Building Construction Phase	300
Paving Phase	30
Architectural Coating Phase	30
Total Days	410

WORKER TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Site Preparation Phase	24.4	18	8.3	122.46
Grading Phase	24.4	15	8.3	153.07
Building Construction Phase	24.4	153	8.3	15613.52
Paving Phase	24.4	15	8.3	153.07
Architectural Coating Phase	24.4	31	8.3	316.35
			Fuel	**16,358.48**

HAULING AND VENDOR TRIPS

Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
		HAULING TRIPS		
Site Preparation Phase	7.5	0	20.0	0.00
Grading Phase	7.5	3313	20.0	8834.67

Building Construction Phase	7.5	0	20.0	0.00
Paving Phase	7.5	0	20.0	0.00
Architectural Coating Phase	7.5	0	20.0	0.00
		Fuel		**8,834.67**
		VENDOR TRIPS		
Site Preparation Phase	7.5	0	6.4	0.00
Grading Phase	7.5	0	6.4	0.00
Building Construction Phase	7.5	35	6.4	8960.00
Paving Phase	7.5	0	6.4	0.00
Architectural Coating Phase	7.5	0	6.4	0.00
		Fuel		**8,960.00**

Total Gasoline Consumption (gallons)	**16,358.48**
Total Diesel Consumption (gallons)	**73,034.93**

Sources:

[1] United States Environmental Protection Agency. 2018. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES2014b* . July 2018. Available at: https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100UXEN.pdf.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2019. *National Transportation Statistics 2019* . Available at: https://www.bts.gov/topics/national-transportation-statistics.

21-10971 Park Edge Apts

Last Updated: 9/17/21

Populate one of the following tables (Leave the other blank):

Annual VMT		OR	Daily Vehicle Trips	
Annual VMT:	3,835,391		Daily Vehicle Trips:	
			Average Trip Distance:	

Fleet Class	Fleet Mix
Light Duty Auto (LDA)	0.492113
Light Duty Truck 1 (LDT1)	0.052876
Light Duty Truck 2 (LDT2)	0.208088
Medium Duty Vehicle (MDV)	0.152800
Light Heavy Duty 1 (LHD1)	0.029700
Light Heavy Duty 2 (LHD2)	0.007146
Medium Heavy Duty (MHD)	0.010959
Heavy Heavy Duty (HHD)	0.006131
Other Bus (OBUS)	0.000966
Urban Bus (UBUS)	0.000597
Motorcycle (MCY)	0.030829
School Bus (SBUS)	0.003523
Motorhome (MH)	0.004272

Fuel Economy (MPG) [1]	
Passenger Vehicles	24.4
Light-Med Duty Trucks	17.9
Heavy Trucks/Other	7.5
Motorcycles	44

Fleet Mix

Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Passenger Vehicles	*49.21%*	*Gasoline*	1887446	0.00	77354.33
Light-Medium Duty Trucks	*41.38%*	*Gasoline*	1586947	0.00	88656.24
Heavy Trucks/Other	*6.33%*	*Diesel*	242757	0.00	32367.63
Motorcycle	*3.08%*	*Gasoline*	118241	0.00	2687.30

Total Gasoline Consumption (gallons)	**168697.88**
Total Diesel Consumption (gallons)	**32367.63**

Sources:

[1] United States Department of Transportation, Bureau of Transportation Statistics. 2019. National Transportation Statistics 2019. Available at: https://www.bts.gov/topics/national-transportation-statistics.