

Senter Housing - Bay Area AQMD Air District, Annual

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

Senter Housing
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	88.00	Space	0.00	25,858.00	0
Condo/Townhouse	44.00	Dwelling Unit	2.23	47,897.00	126

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2024
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 - Construction start and end dates provided by client
- Land Use - all units modeled as condo/townhouse. building sf and hardscape sf provided by client. Hardscape sf assumed to include all driveways.
- Construction Phase - Phases expanded to match client provided start and end dates of 9/2022-1/2024.
- Grading - Client states 1500 cy asphalt export for road diet on senter rd. 3,580 cy of fill import per project description.
- Vehicle Trips - Traffic data provided by client. 215 total daily trips / 44 DU = 4.89 trips/DU/day
- Woodstoves - No fireplaces or woodstoves
- Construction Off-road Equipment Mitigation - Water exposed area 2x/day
- Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00

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tblConstructionPhase	NumDays	220.00	235.00
tblConstructionPhase	NumDays	6.00	30.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	3.00	15.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	PhaseEndDate	9/12/2023	1/3/2024
tblConstructionPhase	PhaseEndDate	8/15/2023	11/1/2023
tblConstructionPhase	PhaseEndDate	10/11/2022	12/7/2022
tblConstructionPhase	PhaseEndDate	8/29/2023	11/22/2023
tblConstructionPhase	PhaseEndDate	10/3/2022	10/26/2022
tblConstructionPhase	PhaseEndDate	9/28/2022	10/5/2022
tblConstructionPhase	PhaseStartDate	8/30/2023	11/23/2023
tblConstructionPhase	PhaseStartDate	10/12/2022	12/8/2022
tblConstructionPhase	PhaseStartDate	10/4/2022	10/27/2022
tblConstructionPhase	PhaseStartDate	8/16/2023	11/2/2023
tblConstructionPhase	PhaseStartDate	9/29/2022	10/6/2022
tblFireplaces	NumberGas	6.60	0.00
tblFireplaces	NumberWood	7.48	0.00
tblGrading	MaterialExported	0.00	1,500.00
tblGrading	MaterialImported	0.00	3,580.00
tblLandUse	LandUseSquareFeet	35,200.00	25,858.00
tblLandUse	LandUseSquareFeet	44,000.00	47,897.00
tblLandUse	LotAcreage	0.79	0.00
tblLandUse	LotAcreage	2.75	2.23
tblVehicleTrips	ST_TR	8.14	4.89
tblVehicleTrips	SU_TR	6.28	4.89
tblVehicleTrips	WD_TR	7.32	4.89
tblWoodstoves	NumberCatalytic	0.88	0.00

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2.0 Emissions Summary

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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	0.0740	0.7646	0.5408	1.2800e-003	0.1302	0.0326	0.1628	0.0559	0.0304	0.0863	0.0000	113.4822	113.4822	0.0250	3.5200e-003	115.1556
2023	0.5179	1.6194	1.7842	3.4300e-003	0.0453	0.0716	0.1169	0.0122	0.0685	0.0807	0.0000	291.3169	291.3169	0.0480	3.7000e-003	293.6193
2024	0.0346	1.8500e-003	2.9900e-003	1.0000e-005	1.1000e-004	9.0000e-005	2.0000e-004	3.0000e-005	9.0000e-005	1.2000e-004	0.0000	0.4645	0.4645	2.0000e-005	0.0000	0.4658
Maximum	0.5179	1.6194	1.7842	3.4300e-003	0.1302	0.0716	0.1628	0.0559	0.0685	0.0863	0.0000	291.3169	291.3169	0.0480	3.7000e-003	293.6193

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	0.0740	0.7646	0.5408	1.2800e-003	0.0650	0.0326	0.0976	0.0269	0.0304	0.0573	0.0000	113.4821	113.4821	0.0250	3.5200e-003	115.1555
2023	0.5179	1.6194	1.7842	3.4300e-003	0.0453	0.0716	0.1169	0.0122	0.0685	0.0807	0.0000	291.3166	291.3166	0.0480	3.7000e-003	293.6190
2024	0.0346	1.8500e-003	2.9900e-003	1.0000e-005	1.1000e-004	9.0000e-005	2.0000e-004	3.0000e-005	9.0000e-005	1.2000e-004	0.0000	0.4645	0.4645	2.0000e-005	0.0000	0.4658
Maximum	0.5179	1.6194	1.7842	3.4300e-003	0.0650	0.0716	0.1169	0.0269	0.0685	0.0807	0.0000	291.3166	291.3166	0.0480	3.7000e-003	293.6190

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.10	0.00	23.28	42.56	0.00	17.34	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	9-1-2022	11-30-2022	0.6471	0.6471
2	12-1-2022	2-28-2023	0.5302	0.5302
3	3-1-2023	5-31-2023	0.5234	0.5234
4	6-1-2023	8-31-2023	0.5230	0.5230
5	9-1-2023	11-30-2023	0.4942	0.4942
6	12-1-2023	2-29-2024	0.2959	0.2959
		Highest	0.6471	0.6471

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2344	4.0300e-003	0.3454	7.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.3431	0.5352	0.8784	2.3800e-003	0.0000	0.9378
Energy	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	61.1014	61.1014	4.1100e-003	1.1500e-003	61.5457
Mobile	0.0897	0.1005	0.8311	1.7100e-003	0.1832	1.2700e-003	0.1844	0.0489	1.1800e-003	0.0501	0.0000	160.3034	160.3034	0.0107	7.7700e-003	162.8857
Waste						0.0000	0.0000		0.0000	0.0000	4.1085	0.0000	4.1085	0.2428	0.0000	10.1787
Water						0.0000	0.0000		0.0000	0.0000	0.9095	2.0205	2.9300	0.0937	2.2500e-003	5.9426
Total	0.3282	0.1396	1.1914	2.0000e-003	0.1832	8.4200e-003	0.1916	0.0489	8.3300e-003	0.0573	5.3612	223.9605	229.3217	0.3537	0.0112	241.4906

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2344	4.0300e-003	0.3454	7.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.3431	0.5352	0.8784	2.3800e-003	0.0000	0.9378
Energy	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	61.1014	61.1014	4.1100e-003	1.1500e-003	61.5457
Mobile	0.0897	0.1005	0.8311	1.7100e-003	0.1832	1.2700e-003	0.1844	0.0489	1.1800e-003	0.0501	0.0000	160.3034	160.3034	0.0107	7.7700e-003	162.8857
Waste						0.0000	0.0000		0.0000	0.0000	4.1085	0.0000	4.1085	0.2428	0.0000	10.1787
Water						0.0000	0.0000		0.0000	0.0000	0.9095	2.0205	2.9300	0.0937	2.2500e-003	5.9426
Total	0.3282	0.1396	1.1914	2.0000e-003	0.1832	8.4200e-003	0.1916	0.0489	8.3300e-003	0.0573	5.3612	223.9605	229.3217	0.3537	0.0112	241.4906

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2022	10/5/2022	5	25	
2	Site Preparation	Site Preparation	10/6/2022	10/26/2022	5	15	
3	Grading	Grading	10/27/2022	12/7/2022	5	30	

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4	Building Construction	Building Construction	12/8/2022	11/1/2023	5	235
5	Paving	Paving	11/2/2023	11/22/2023	5	15
6	Architectural Coating	Architectural Coating	11/23/2023	1/3/2024	5	30

Acres of Grading (Site Preparation Phase): 22.5

Acres of Grading (Grading Phase): 30

Acres of Paving: 0

Residential Indoor: 96,991; Residential Outdoor: 32,330; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,551 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	635.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	43.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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	0.0211	0.2078	0.1745	3.0000e-004		0.0105	0.0105		9.7900e-003	9.7900e-003	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5150
Total	0.0211	0.2078	0.1745	3.0000e-004		0.0105	0.0105		9.7900e-003	9.7900e-003	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5150

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.2000e-004	3.8900e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0327	1.0327	3.0000e-005	3.0000e-005	1.0424
Total	4.5000e-004	3.2000e-004	3.8900e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0327	1.0327	3.0000e-005	3.0000e-005	1.0424

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	0.0211	0.2078	0.1745	3.0000e-004		0.0105	0.0105		9.7900e-003	9.7900e-003	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5149
Total	0.0211	0.2078	0.1745	3.0000e-004		0.0105	0.0105		9.7900e-003	9.7900e-003	0.0000	26.3471	26.3471	6.7100e-003	0.0000	26.5149

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3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.2000e-004	3.8900e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0327	1.0327	3.0000e-005	3.0000e-005	1.0424
Total	4.5000e-004	3.2000e-004	3.8900e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0327	1.0327	3.0000e-005	3.0000e-005	1.0424

3.3 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					0.0122	0.0000	0.0122	1.3300e-003	0.0000	1.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1175	0.0754	1.8000e-004		4.4600e-003	4.4600e-003		4.1100e-003	4.1100e-003	0.0000	16.1603	16.1603	5.2300e-003	0.0000	16.2910
Total	0.0103	0.1175	0.0754	1.8000e-004	0.0122	4.4600e-003	0.0167	1.3300e-003	4.1100e-003	5.4400e-003	0.0000	16.1603	16.1603	5.2300e-003	0.0000	16.2910

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3.3 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	1.4800e-003	0.0547	0.0116	2.0000e-004	5.3700e-003	4.9000e-004	5.8600e-003	1.4800e-003	4.7000e-004	1.9500e-003	0.0000	19.9023	19.9023	6.6000e-004	3.1500e-003	20.8580
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	1.6000e-004	1.2000e-004	1.4300e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3813	0.3813	1.0000e-005	1.0000e-005	0.3849
Total	1.6400e-003	0.0548	0.0131	2.0000e-004	5.8400e-003	4.9000e-004	6.3400e-003	1.6100e-003	4.7000e-004	2.0800e-003	0.0000	20.2836	20.2836	6.7000e-004	3.1600e-003	21.2429

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					5.5000e-003	0.0000	5.5000e-003	6.0000e-004	0.0000	6.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0103	0.1175	0.0754	1.8000e-004		4.4600e-003	4.4600e-003		4.1100e-003	4.1100e-003	0.0000	16.1603	16.1603	5.2300e-003	0.0000	16.2909
Total	0.0103	0.1175	0.0754	1.8000e-004	5.5000e-003	4.4600e-003	9.9600e-003	6.0000e-004	4.1100e-003	4.7100e-003	0.0000	16.1603	16.1603	5.2300e-003	0.0000	16.2909

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3.3 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	1.4800e-003	0.0547	0.0116	2.0000e-004	5.3700e-003	4.9000e-004	5.8600e-003	1.4800e-003	4.7000e-004	1.9500e-003	0.0000	19.9023	19.9023	6.6000e-004	3.1500e-003	20.8580
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	1.6000e-004	1.2000e-004	1.4300e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3813	0.3813	1.0000e-005	1.0000e-005	0.3849
Total	1.6400e-003	0.0548	0.0131	2.0000e-004	5.8400e-003	4.9000e-004	6.3400e-003	1.6100e-003	4.7000e-004	2.0800e-003	0.0000	20.2836	20.2836	6.7000e-004	3.1600e-003	21.2429

3.4 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					0.1062	0.0000	0.1062	0.0514	0.0000	0.0514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.2548	0.1383	3.1000e-004		0.0111	0.0111		0.0102	0.0102	0.0000	27.1541	27.1541	8.7800e-003	0.0000	27.3736
Total	0.0231	0.2548	0.1383	3.1000e-004	0.1062	0.0111	0.1174	0.0514	0.0102	0.0616	0.0000	27.1541	27.1541	8.7800e-003	0.0000	27.3736

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

3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.5900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9533	0.9533	3.0000e-005	3.0000e-005	0.9622
Total	4.1000e-004	3.0000e-004	3.5900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9533	0.9533	3.0000e-005	3.0000e-005	0.9622

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					0.0478	0.0000	0.0478	0.0231	0.0000	0.0231	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.2548	0.1383	3.1000e-004		0.0111	0.0111		0.0102	0.0102	0.0000	27.1540	27.1540	8.7800e-003	0.0000	27.3736
Total	0.0231	0.2548	0.1383	3.1000e-004	0.0478	0.0111	0.0589	0.0231	0.0102	0.0334	0.0000	27.1540	27.1540	8.7800e-003	0.0000	27.3736

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

3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.5900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9533	0.9533	3.0000e-005	3.0000e-005	0.9622
Total	4.1000e-004	3.0000e-004	3.5900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9533	0.9533	3.0000e-005	3.0000e-005	0.9622

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0158	0.1241	0.1220	2.1000e-004		5.9700e-003	5.9700e-003		5.7200e-003	5.7200e-003	0.0000	17.6528	17.6528	3.4100e-003	0.0000	17.7380
Total	0.0158	0.1241	0.1220	2.1000e-004		5.9700e-003	5.9700e-003		5.7200e-003	5.7200e-003	0.0000	17.6528	17.6528	3.4100e-003	0.0000	17.7380

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

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	4.2700e-003	1.2400e-003	2.0000e-005	5.0000e-004	4.0000e-005	5.5000e-004	1.5000e-004	4.0000e-005	1.9000e-004	0.0000	1.5755	1.5755	3.0000e-005	2.3000e-004	1.6460
Worker	1.0000e-003	7.2000e-004	8.7400e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9000e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	2.3228	2.3228	7.0000e-005	7.0000e-005	2.3446
Total	1.1600e-003	4.9900e-003	9.9800e-003	5.0000e-005	3.3900e-003	6.0000e-005	3.4500e-003	9.2000e-004	5.0000e-005	9.7000e-004	0.0000	3.8984	3.8984	1.0000e-004	3.0000e-004	3.9906

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	0.0158	0.1241	0.1220	2.1000e-004		5.9700e-003	5.9700e-003		5.7200e-003	5.7200e-003	0.0000	17.6528	17.6528	3.4100e-003	0.0000	17.7379
Total	0.0158	0.1241	0.1220	2.1000e-004		5.9700e-003	5.9700e-003		5.7200e-003	5.7200e-003	0.0000	17.6528	17.6528	3.4100e-003	0.0000	17.7379

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

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	4.2700e-003	1.2400e-003	2.0000e-005	5.0000e-004	4.0000e-005	5.5000e-004	1.5000e-004	4.0000e-005	1.9000e-004	0.0000	1.5755	1.5755	3.0000e-005	2.3000e-004	1.6460
Worker	1.0000e-003	7.2000e-004	8.7400e-003	3.0000e-005	2.8900e-003	2.0000e-005	2.9000e-003	7.7000e-004	1.0000e-005	7.8000e-004	0.0000	2.3228	2.3228	7.0000e-005	7.0000e-005	2.3446
Total	1.1600e-003	4.9900e-003	9.9800e-003	5.0000e-005	3.3900e-003	6.0000e-005	3.4500e-003	9.2000e-004	5.0000e-005	9.7000e-004	0.0000	3.8984	3.8984	1.0000e-004	3.0000e-004	3.9906

3.5 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	0.1868	1.4850	1.5494	2.7300e-003		0.0669	0.0669		0.0641	0.0641	0.0000	226.3953	226.3953	0.0428	0.0000	227.4656
Total	0.1868	1.4850	1.5494	2.7300e-003		0.0669	0.0669		0.0641	0.0641	0.0000	226.3953	226.3953	0.0428	0.0000	227.4656

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

3.5 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	1.0500e-003	0.0436	0.0136	2.0000e-004	6.4400e-003	2.6000e-004	6.6900e-003	1.8600e-003	2.4000e-004	2.1100e-003	0.0000	19.3645	19.3645	4.0000e-004	2.8600e-003	20.2280
Worker	0.0120	8.2100e-003	0.1039	3.1000e-004	0.0370	1.9000e-004	0.0372	9.8500e-003	1.8000e-004	0.0100	0.0000	29.0265	29.0265	8.3000e-004	8.0000e-004	29.2848
Total	0.0131	0.0518	0.1176	5.1000e-004	0.0435	4.5000e-004	0.0439	0.0117	4.2000e-004	0.0121	0.0000	48.3910	48.3910	1.2300e-003	3.6600e-003	49.5128

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	0.1868	1.4850	1.5494	2.7300e-003		0.0669	0.0669		0.0641	0.0641	0.0000	226.3950	226.3950	0.0428	0.0000	227.4653
Total	0.1868	1.4850	1.5494	2.7300e-003		0.0669	0.0669		0.0641	0.0641	0.0000	226.3950	226.3950	0.0428	0.0000	227.4653

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

3.5 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	1.0500e-003	0.0436	0.0136	2.0000e-004	6.4400e-003	2.6000e-004	6.6900e-003	1.8600e-003	2.4000e-004	2.1100e-003	0.0000	19.3645	19.3645	4.0000e-004	2.8600e-003	20.2280
Worker	0.0120	8.2100e-003	0.1039	3.1000e-004	0.0370	1.9000e-004	0.0372	9.8500e-003	1.8000e-004	0.0100	0.0000	29.0265	29.0265	8.3000e-004	8.0000e-004	29.2848
Total	0.0131	0.0518	0.1176	5.1000e-004	0.0435	4.5000e-004	0.0439	0.0117	4.2000e-004	0.0121	0.0000	48.3910	48.3910	1.2300e-003	3.6600e-003	49.5128

3.6 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	6.6000e-003	0.0646	0.0876	1.3000e-004		3.2500e-003	3.2500e-003		3.0000e-003	3.0000e-003	0.0000	11.6346	11.6346	3.6900e-003	0.0000	11.7268
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.6000e-003	0.0646	0.0876	1.3000e-004		3.2500e-003	3.2500e-003		3.0000e-003	3.0000e-003	0.0000	11.6346	11.6346	3.6900e-003	0.0000	11.7268

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

3.6 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	2.9000e-004	2.0000e-004	2.4900e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6967	0.6967	2.0000e-005	2.0000e-005	0.7029
Total	2.9000e-004	2.0000e-004	2.4900e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6967	0.6967	2.0000e-005	2.0000e-005	0.7029

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	6.6000e-003	0.0646	0.0876	1.3000e-004		3.2500e-003	3.2500e-003		3.0000e-003	3.0000e-003	0.0000	11.6346	11.6346	3.6900e-003	0.0000	11.7268
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.6000e-003	0.0646	0.0876	1.3000e-004		3.2500e-003	3.2500e-003		3.0000e-003	3.0000e-003	0.0000	11.6346	11.6346	3.6900e-003	0.0000	11.7268

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

3.6 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	2.9000e-004	2.0000e-004	2.4900e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6967	0.6967	2.0000e-005	2.0000e-005	0.7029
Total	2.9000e-004	2.0000e-004	2.4900e-003	1.0000e-005	8.9000e-004	0.0000	8.9000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.6967	0.6967	2.0000e-005	2.0000e-005	0.7029

3.7 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	0.3083					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5900e-003	0.0176	0.0245	4.0000e-005		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	3.4469	3.4469	2.1000e-004	0.0000	3.4521
Total	0.3109	0.0176	0.0245	4.0000e-005		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	3.4469	3.4469	2.1000e-004	0.0000	3.4521

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

3.7 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	3.1000e-004	2.1000e-004	2.6900e-003	1.0000e-005	9.6000e-004	0.0000	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7525	0.7525	2.0000e-005	2.0000e-005	0.7591
Total	3.1000e-004	2.1000e-004	2.6900e-003	1.0000e-005	9.6000e-004	0.0000	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7525	0.7525	2.0000e-005	2.0000e-005	0.7591

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	0.3083					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5900e-003	0.0176	0.0245	4.0000e-005		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	3.4469	3.4469	2.1000e-004	0.0000	3.4520
Total	0.3109	0.0176	0.0245	4.0000e-005		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	3.4469	3.4469	2.1000e-004	0.0000	3.4520

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3.7 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	3.1000e-004	2.1000e-004	2.6900e-003	1.0000e-005	9.6000e-004	0.0000	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7525	0.7525	2.0000e-005	2.0000e-005	0.7591
Total	3.1000e-004	2.1000e-004	2.6900e-003	1.0000e-005	9.6000e-004	0.0000	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7525	0.7525	2.0000e-005	2.0000e-005	0.7591

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0343					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	1.8300e-003	2.7200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.3830	0.3830	2.0000e-005	0.0000	0.3835
Total	0.0345	1.8300e-003	2.7200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.3830	0.3830	2.0000e-005	0.0000	0.3835

Senter Housing - Bay Area AQMD Air District, Annual

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

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0815	0.0815	0.0000	0.0000	0.0822
Total	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0815	0.0815	0.0000	0.0000	0.0822

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	0.0343					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	1.8300e-003	2.7200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.3830	0.3830	2.0000e-005	0.0000	0.3835
Total	0.0345	1.8300e-003	2.7200e-003	0.0000		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	0.3830	0.3830	2.0000e-005	0.0000	0.3835

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3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0815	0.0815	0.0000	0.0000	0.0822
Total	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0815	0.0815	0.0000	0.0000	0.0822

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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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	0.0897	0.1005	0.8311	1.7100e-003	0.1832	1.2700e-003	0.1844	0.0489	1.1800e-003	0.0501	0.0000	160.3034	160.3034	0.0107	7.7700e-003	162.8857
Unmitigated	0.0897	0.1005	0.8311	1.7100e-003	0.1832	1.2700e-003	0.1844	0.0489	1.1800e-003	0.0501	0.0000	160.3034	160.3034	0.0107	7.7700e-003	162.8857

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	215.16	215.16	215.16	496,935	496,935
Parking Lot	0.00	0.00	0.00		
Total	215.16	215.16	215.16	496,935	496,935

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Parking Lot	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

5.0 Energy Detail

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

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	20.5757	20.5757	3.3300e-003	4.0000e-004	20.7792
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	20.5757	20.5757	3.3300e-003	4.0000e-004	20.7792
Natural Gas Mitigated	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5257	40.5257	7.8000e-004	7.4000e-004	40.7665
Natural Gas Unmitigated	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5257	40.5257	7.8000e-004	7.4000e-004	40.7665

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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					
Condo/Townhouse	759423	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5257	40.5257	7.8000e-004	7.4000e-004	40.7665
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
Total		4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5257	40.5257	7.8000e-004	7.4000e-004	40.7665

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					
Condo/Townhouse	759423	4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5257	40.5257	7.8000e-004	7.4000e-004	40.7665
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
Total		4.0900e-003	0.0350	0.0149	2.2000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	40.5257	40.5257	7.8000e-004	7.4000e-004	40.7665

Senter Housing - Bay Area AQMD Air District, Annual

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			
Condo/Townhouse	213333	19.7383	3.1900e-003	3.9000e-004	19.9335
Parking Lot	9050.3	0.8374	1.4000e-004	2.0000e-005	0.8457
Total		20.5757	3.3300e-003	4.1000e-004	20.7792

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	213333	19.7383	3.1900e-003	3.9000e-004	19.9335
Parking Lot	9050.3	0.8374	1.4000e-004	2.0000e-005	0.8457
Total		20.5757	3.3300e-003	4.1000e-004	20.7792

6.0 Area Detail

Senter Housing - Bay Area AQMD Air District, Annual

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2344	4.0300e-003	0.3454	7.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.3431	0.5352	0.8784	2.3800e-003	0.0000	0.9378
Unmitigated	0.2344	4.0300e-003	0.3454	7.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.3431	0.5352	0.8784	2.3800e-003	0.0000	0.9378

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

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	0.0343					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5400e-003	2.6000e-004	0.0180	5.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.3431	0.0000	0.3431	1.8600e-003	0.0000	0.3896
Landscaping	9.8900e-003	3.7700e-003	0.3274	2.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	0.5352	0.5352	5.2000e-004	0.0000	0.5481
Total	0.2344	4.0300e-003	0.3454	7.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.3431	0.5352	0.8784	2.3800e-003	0.0000	0.9378

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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	0.0343					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1887					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.5400e-003	2.6000e-004	0.0180	5.0000e-005		2.5100e-003	2.5100e-003		2.5100e-003	2.5100e-003	0.3431	0.0000	0.3431	1.8600e-003	0.0000	0.3896
Landscaping	9.8900e-003	3.7700e-003	0.3274	2.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	0.5352	0.5352	5.2000e-004	0.0000	0.5481
Total	0.2344	4.0300e-003	0.3454	7.0000e-005		4.3200e-003	4.3200e-003		4.3200e-003	4.3200e-003	0.3431	0.5352	0.8784	2.3800e-003	0.0000	0.9378

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.9300	0.0937	2.2500e-003	5.9426
Unmitigated	2.9300	0.0937	2.2500e-003	5.9426

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.86678 / 1.80732	2.9300	0.0937	2.2500e-003	5.9426
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.9300	0.0937	2.2500e-003	5.9426

Senter Housing - Bay Area AQMD Air District, Annual

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			
Condo/Townhouse	2.86678 / 1.80732	2.9300	0.0937	2.2500e-003	5.9426
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.9300	0.0937	2.2500e-003	5.9426

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.1085	0.2428	0.0000	10.1787
Unmitigated	4.1085	0.2428	0.0000	10.1787

Senter Housing - Bay Area AQMD Air District, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	20.24	4.1085	0.2428	0.0000	10.1787
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.1085	0.2428	0.0000	10.1787

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	20.24	4.1085	0.2428	0.0000	10.1787
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.1085	0.2428	0.0000	10.1787

9.0 Operational Offroad

Senter Housing - Bay Area AQMD Air District, Annual

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

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
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11.0 Vegetation

Senter Housing - Bay Area AQMD Air District, Summer

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

Senter Housing
Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	88.00	Space	0.00	25,858.00	0
Condo/Townhouse	44.00	Dwelling Unit	2.23	47,897.00	126

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2024
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 - Construction start and end dates provided by client
- Land Use - all units modeled as condo/townhouse. building sf and hardscape sf provided by client. Hardscape sf assumed to include all driveways.
- Construction Phase - Phases expanded to match client provided start and end dates of 9/2022-1/2024.
- Grading - Client states 1500 cy asphalt export for road diet on senter rd. 3,580 cy of fill import per project description.
- Vehicle Trips - Traffic data provided by client. 215 total daily trips / 44 DU = 4.89 trips/DU/day
- Woodstoves - No fireplaces or woodstoves
- Construction Off-road Equipment Mitigation - Water exposed area 2x/day
- Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00

Sender Housing - Bay Area AQMD Air District, Summer

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

tblConstructionPhase	NumDays	220.00	235.00
tblConstructionPhase	NumDays	6.00	30.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	3.00	15.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	PhaseEndDate	9/12/2023	1/3/2024
tblConstructionPhase	PhaseEndDate	8/15/2023	11/1/2023
tblConstructionPhase	PhaseEndDate	10/11/2022	12/7/2022
tblConstructionPhase	PhaseEndDate	8/29/2023	11/22/2023
tblConstructionPhase	PhaseEndDate	10/3/2022	10/26/2022
tblConstructionPhase	PhaseEndDate	9/28/2022	10/5/2022
tblConstructionPhase	PhaseStartDate	8/30/2023	11/23/2023
tblConstructionPhase	PhaseStartDate	10/12/2022	12/8/2022
tblConstructionPhase	PhaseStartDate	10/4/2022	10/27/2022
tblConstructionPhase	PhaseStartDate	8/16/2023	11/2/2023
tblConstructionPhase	PhaseStartDate	9/29/2022	10/6/2022
tblFireplaces	NumberGas	6.60	0.00
tblFireplaces	NumberWood	7.48	0.00
tblGrading	MaterialExported	0.00	1,500.00
tblGrading	MaterialImported	0.00	3,580.00
tblLandUse	LandUseSquareFeet	35,200.00	25,858.00
tblLandUse	LandUseSquareFeet	44,000.00	47,897.00
tblLandUse	LotAcreage	0.79	0.00
tblLandUse	LotAcreage	2.75	2.23
tblVehicleTrips	ST_TR	8.14	4.89
tblVehicleTrips	SU_TR	6.28	4.89
tblVehicleTrips	WD_TR	7.32	4.89
tblWoodstoves	NumberCatalytic	0.88	0.00

Senter Housing - Bay Area AQMD Air District, Summer

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

2.0 Emissions Summary

Senter Housing - Bay Area AQMD 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	2.0000	22.7092	15.6091	0.0520	7.1647	0.8385	7.9075	3.4465	0.7834	4.1298	0.0000	5,359.7358	5,359.7358	0.8663	0.4647	5,519.8791
2023	23.0530	14.0768	15.3657	0.0299	0.4142	0.6177	1.0319	0.1112	0.5919	0.7031	0.0000	2,798.6416	2,798.6416	0.5447	0.0364	2,820.6015
2024	23.0405	1.2313	2.0107	3.5900e-003	0.0739	0.0613	0.1352	0.0196	0.0612	0.0809	0.0000	345.4166	345.4166	0.0174	1.4500e-003	346.2825
Maximum	23.0530	22.7092	15.6091	0.0520	7.1647	0.8385	7.9075	3.4465	0.7834	4.1298	0.0000	5,359.7358	5,359.7358	0.8663	0.4647	5,519.8791

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	2.0000	22.7092	15.6091	0.0520	3.2693	0.8385	4.0120	1.5629	0.7834	2.2462	0.0000	5,359.7358	5,359.7358	0.8663	0.4647	5,519.8791
2023	23.0530	14.0768	15.3657	0.0299	0.4142	0.6177	1.0319	0.1112	0.5919	0.7031	0.0000	2,798.6416	2,798.6416	0.5447	0.0364	2,820.6015
2024	23.0405	1.2313	2.0107	3.5900e-003	0.0739	0.0613	0.1352	0.0196	0.0612	0.0809	0.0000	345.4166	345.4166	0.0174	1.4500e-003	346.2825
Maximum	23.0530	22.7092	15.6091	0.0520	3.2693	0.8385	4.0120	1.5629	0.7834	2.2462	0.0000	5,359.7358	5,359.7358	0.8663	0.4647	5,519.8791

Senter Housing - Bay Area AQMD 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
Percent Reduction	0.00	0.00	0.00	0.00	50.90	0.00	42.93	52.65	0.00	38.33	0.00	0.00	0.00	0.00	0.00	0.00

Senter Housing - Bay Area AQMD 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	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472
Energy	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
Mobile	0.5486	0.5079	4.5466	9.9000e-003	1.0459	6.9900e-003	1.0529	0.2786	6.5200e-003	0.2851		1,023.3601	1,023.3601	0.0602	0.0447	1,038.1728
Total	2.1206	0.7778	10.8210	0.0186	1.0459	0.3983	1.4443	0.2786	0.3979	0.6764	53.5742	1,274.6935	1,328.2677	0.3616	0.0491	1,351.9524

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	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472
Energy	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
Mobile	0.5486	0.5079	4.5466	9.9000e-003	1.0459	6.9900e-003	1.0529	0.2786	6.5200e-003	0.2851		1,023.3601	1,023.3601	0.0602	0.0447	1,038.1728
Total	2.1206	0.7778	10.8210	0.0186	1.0459	0.3983	1.4443	0.2786	0.3979	0.6764	53.5742	1,274.6935	1,328.2677	0.3616	0.0491	1,351.9524

Senter Housing - Bay Area AQMD 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2022	10/5/2022	5	25	
2	Site Preparation	Site Preparation	10/6/2022	10/26/2022	5	15	
3	Grading	Grading	10/27/2022	12/7/2022	5	30	
4	Building Construction	Building Construction	12/8/2022	11/1/2023	5	235	
5	Paving	Paving	11/2/2023	11/22/2023	5	15	
6	Architectural Coating	Architectural Coating	11/23/2023	1/3/2024	5	30	

Acres of Grading (Site Preparation Phase): 22.5

Acres of Grading (Grading Phase): 30

Acres of Paving: 0

Residential Indoor: 96,991; Residential Outdoor: 32,330; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,551 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Senter Housing - Bay Area AQMD Air District, Summer

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

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	635.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	43.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Senter Housing - Bay Area AQMD Air District, Summer

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

3.2 Demolition - 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	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191

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	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371
Total	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371

Senter Housing - Bay Area AQMD Air District, Summer

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

3.2 Demolition - 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	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191

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	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371
Total	0.0378	0.0228	0.3361	9.6000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		97.2482	97.2482	2.6500e-003	2.4200e-003	98.0371

Senter Housing - Bay Area AQMD Air District, Summer

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

3.3 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					1.6291	0.0000	1.6291	0.1776	0.0000	0.1776			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	1.6291	0.5952	2.2242	0.1776	0.5476	0.7251		2,375.1569	2,375.1569	0.7682		2,394.3613

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	0.1994	7.0279	1.5404	0.0269	0.7404	0.0653	0.8057	0.2029	0.0625	0.2654		2,924.7338	2,924.7338	0.0965	0.4632	3,065.1873
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	0.0233	0.0140	0.2068	5.9000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		59.8450	59.8450	1.6300e-003	1.4900e-003	60.3305
Total	0.2226	7.0420	1.7472	0.0275	0.8061	0.0657	0.8718	0.2204	0.0628	0.2832		2,984.5789	2,984.5789	0.0981	0.4647	3,125.5178

Senter Housing - Bay Area AQMD Air District, Summer

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

3.3 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					0.7331	0.0000	0.7331	0.0799	0.0000	0.0799			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	0.7331	0.5952	1.3283	0.0799	0.5476	0.6275	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613

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	0.1994	7.0279	1.5404	0.0269	0.7404	0.0653	0.8057	0.2029	0.0625	0.2654		2,924.7338	2,924.7338	0.0965	0.4632	3,065.1873
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	0.0233	0.0140	0.2068	5.9000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		59.8450	59.8450	1.6300e-003	1.4900e-003	60.3305
Total	0.2226	7.0420	1.7472	0.0275	0.8061	0.0657	0.8718	0.2204	0.0628	0.2832		2,984.5789	2,984.5789	0.0981	0.4647	3,125.5178

Senter Housing - Bay Area AQMD Air District, Summer

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

3.4 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0826	0.7423	7.8249	3.4247	0.6829	4.1076		1,995.4825	1,995.4825	0.6454		2,011.6169

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	0.0291	0.0175	0.2585	7.4000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		74.8063	74.8063	2.0400e-003	1.8700e-003	75.4131
Total	0.0291	0.0175	0.2585	7.4000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		74.8063	74.8063	2.0400e-003	1.8700e-003	75.4131

Senter Housing - Bay Area AQMD Air District, Summer

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

3.4 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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	3.1872	0.7423	3.9294	1.5411	0.6829	2.2240	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

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	0.0291	0.0175	0.2585	7.4000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		74.8063	74.8063	2.0400e-003	1.8700e-003	75.4131
Total	0.0291	0.0175	0.2585	7.4000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		74.8063	74.8063	2.0400e-003	1.8700e-003	75.4131

Senter Housing - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

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	0.0194	0.4855	0.1442	1.9100e-003	0.0610	5.1700e-003	0.0661	0.0176	4.9500e-003	0.0225		204.2873	204.2873	4.4500e-003	0.0303	213.4189
Worker	0.1251	0.0754	1.1116	3.1600e-003	0.3532	1.8500e-003	0.3551	0.0937	1.7000e-003	0.0954		321.6671	321.6671	8.7700e-003	8.0200e-003	324.2765
Total	0.1445	0.5609	1.2558	5.0700e-003	0.4142	7.0200e-003	0.4212	0.1112	6.6500e-003	0.1179		525.9543	525.9543	0.0132	0.0383	537.6954

Senter Housing - Bay Area AQMD Air District, Summer

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

3.5 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

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	0.0194	0.4855	0.1442	1.9100e-003	0.0610	5.1700e-003	0.0661	0.0176	4.9500e-003	0.0225		204.2873	204.2873	4.4500e-003	0.0303	213.4189
Worker	0.1251	0.0754	1.1116	3.1600e-003	0.3532	1.8500e-003	0.3551	0.0937	1.7000e-003	0.0954		321.6671	321.6671	8.7700e-003	8.0200e-003	324.2765
Total	0.1445	0.5609	1.2558	5.0700e-003	0.4142	7.0200e-003	0.4212	0.1112	6.6500e-003	0.1179		525.9543	525.9543	0.0132	0.0383	537.6954

Senter Housing - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7900e-003	0.3860	0.1233	1.8200e-003	0.0610	2.3400e-003	0.0633	0.0176	2.2400e-003	0.0198		195.7149	195.7149	4.0100e-003	0.0289	204.4370
Worker	0.1163	0.0668	1.0279	3.0600e-003	0.3532	1.7500e-003	0.3550	0.0937	1.6100e-003	0.0953		313.4033	313.4033	7.9000e-003	7.4400e-003	315.8166
Total	0.1261	0.4528	1.1512	4.8800e-003	0.4142	4.0900e-003	0.4183	0.1112	3.8500e-003	0.1151		509.1182	509.1182	0.0119	0.0364	520.2537

Senter Housing - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.7900e-003	0.3860	0.1233	1.8200e-003	0.0610	2.3400e-003	0.0633	0.0176	2.2400e-003	0.0198		195.7149	195.7149	4.0100e-003	0.0289	204.4370
Worker	0.1163	0.0668	1.0279	3.0600e-003	0.3532	1.7500e-003	0.3550	0.0937	1.6100e-003	0.0953		313.4033	313.4033	7.9000e-003	7.4400e-003	315.8166
Total	0.1261	0.4528	1.1512	4.8800e-003	0.4142	4.0900e-003	0.4183	0.1112	3.8500e-003	0.1151		509.1182	509.1182	0.0119	0.0364	520.2537

Senter Housing - Bay Area AQMD Air District, Summer

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

3.6 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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414

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	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
Total	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686

Senter Housing - Bay Area AQMD Air District, Summer

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

3.6 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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

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	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
Total	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686

Senter Housing - Bay Area AQMD Air District, Summer

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

3.7 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	22.8370					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	23.0287	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	0.0243	0.0140	0.2152	6.4000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		65.5960	65.5960	1.6500e-003	1.5600e-003	66.1012
Total	0.0243	0.0140	0.2152	6.4000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		65.5960	65.5960	1.6500e-003	1.5600e-003	66.1012

Senter Housing - Bay Area AQMD Air District, Summer

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

3.7 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	22.8370					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	23.0287	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	0.0243	0.0140	0.2152	6.4000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		65.5960	65.5960	1.6500e-003	1.5600e-003	66.1012
Total	0.0243	0.0140	0.2152	6.4000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		65.5960	65.5960	1.6500e-003	1.5600e-003	66.1012

Senter Housing - Bay Area AQMD Air District, Summer

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

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.8370					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	23.0178	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0227	0.0125	0.2005	6.2000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		63.9685	63.9685	1.5000e-003	1.4500e-003	64.4382
Total	0.0227	0.0125	0.2005	6.2000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		63.9685	63.9685	1.5000e-003	1.4500e-003	64.4382

Senter Housing - Bay Area AQMD Air District, Summer

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

3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.8370					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	23.0178	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0227	0.0125	0.2005	6.2000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		63.9685	63.9685	1.5000e-003	1.4500e-003	64.4382
Total	0.0227	0.0125	0.2005	6.2000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		63.9685	63.9685	1.5000e-003	1.4500e-003	64.4382

Senter Housing - Bay Area AQMD Air District, Summer

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	0.5486	0.5079	4.5466	9.9000e-003	1.0459	6.9900e-003	1.0529	0.2786	6.5200e-003	0.2851		1,023.3601	1,023.3601	0.0602	0.0447	1,038.1728
Unmitigated	0.5486	0.5079	4.5466	9.9000e-003	1.0459	6.9900e-003	1.0529	0.2786	6.5200e-003	0.2851		1,023.3601	1,023.3601	0.0602	0.0447	1,038.1728

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	215.16	215.16	215.16	496,935	496,935
Parking Lot	0.00	0.00	0.00		
Total	215.16	215.16	215.16	496,935	496,935

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Senter Housing - Bay Area AQMD Air District, Summer

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
Condo/Townhouse	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Parking Lot	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

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	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
NaturalGas Unmitigated	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324

Senter Housing - Bay Area AQMD 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					
Condo/Townhouse	2080.61	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
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
Total		0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324

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					
Condo/Townhouse	2.08061	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
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
Total		0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324

6.0 Area Detail

Senter Housing - Bay Area AQMD Air District, Summer

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472
Unmitigated	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472

Senter Housing - Bay Area AQMD 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

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	0.1877					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2178	0.0363	2.5553	7.2600e-003		0.3557	0.3557		0.3557	0.3557	53.5742	0.0000	53.5742	0.2904	0.0000	60.8336
Landscaping	0.1099	0.0419	3.6375	1.9000e-004		0.0201	0.0201		0.0201	0.0201		6.5556	6.5556	6.3200e-003		6.7136
Total	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472

Senter Housing - Bay Area AQMD 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	0.1877					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2178	0.0363	2.5553	7.2600e-003		0.3557	0.3557		0.3557	0.3557	53.5742	0.0000	53.5742	0.2904	0.0000	60.8336
Landscaping	0.1099	0.0419	3.6375	1.9000e-004		0.0201	0.0201		0.0201	0.0201		6.5556	6.5556	6.3200e-003		6.7136
Total	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472

7.0 Water Detail

7.1 Mitigation Measures Water

Senter Housing - Bay Area AQMD Air District, Summer

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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Senter Housing - Bay Area AQMD Air District, Winter

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

Senter Housing
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	88.00	Space	0.00	25,858.00	0
Condo/Townhouse	44.00	Dwelling Unit	2.23	47,897.00	126

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	4			Operational Year	2024
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 - Construction start and end dates provided by client
- Land Use - all units modeled as condo/townhouse. building sf and hardscape sf provided by client. Hardscape sf assumed to include all driveways.
- Construction Phase - Phases expanded to match client provided start and end dates of 9/2022-1/2024.
- Grading - Client states 1500 cy asphalt export for road diet on senter rd. 3,580 cy of fill import per project description.
- Vehicle Trips - Traffic data provided by client. 215 total daily trips / 44 DU = 4.89 trips/DU/day
- Woodstoves - No fireplaces or woodstoves
- Construction Off-road Equipment Mitigation - Water exposed area 2x/day
- Trips and VMT -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00

Senter Housing - Bay Area AQMD Air District, Winter

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

tblConstructionPhase	NumDays	220.00	235.00
tblConstructionPhase	NumDays	6.00	30.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	3.00	15.00
tblConstructionPhase	NumDays	20.00	25.00
tblConstructionPhase	PhaseEndDate	9/12/2023	1/3/2024
tblConstructionPhase	PhaseEndDate	8/15/2023	11/1/2023
tblConstructionPhase	PhaseEndDate	10/11/2022	12/7/2022
tblConstructionPhase	PhaseEndDate	8/29/2023	11/22/2023
tblConstructionPhase	PhaseEndDate	10/3/2022	10/26/2022
tblConstructionPhase	PhaseEndDate	9/28/2022	10/5/2022
tblConstructionPhase	PhaseStartDate	8/30/2023	11/23/2023
tblConstructionPhase	PhaseStartDate	10/12/2022	12/8/2022
tblConstructionPhase	PhaseStartDate	10/4/2022	10/27/2022
tblConstructionPhase	PhaseStartDate	8/16/2023	11/2/2023
tblConstructionPhase	PhaseStartDate	9/29/2022	10/6/2022
tblFireplaces	NumberGas	6.60	0.00
tblFireplaces	NumberWood	7.48	0.00
tblGrading	MaterialExported	0.00	1,500.00
tblGrading	MaterialImported	0.00	3,580.00
tblLandUse	LandUseSquareFeet	35,200.00	25,858.00
tblLandUse	LandUseSquareFeet	44,000.00	47,897.00
tblLandUse	LotAcreage	0.79	0.00
tblLandUse	LotAcreage	2.75	2.23
tblVehicleTrips	ST_TR	8.14	4.89
tblVehicleTrips	SU_TR	6.28	4.89
tblVehicleTrips	WD_TR	7.32	4.89
tblWoodstoves	NumberCatalytic	0.88	0.00

Senter Housing - Bay Area AQMD Air District, Winter

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

2.0 Emissions Summary

Senter Housing - Bay Area AQMD 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	2.0025	23.1001	15.5628	0.0520	7.1647	0.8385	7.9075	3.4465	0.7834	4.1298	0.0000	5,356.4340	5,356.4340	0.8662	0.4651	5,516.6966
2023	23.0537	14.1148	15.3264	0.0297	0.4142	0.6177	1.0319	0.1112	0.5919	0.7031	0.0000	2,776.7069	2,776.7069	0.5451	0.0376	2,799.0499
2024	23.0412	1.2342	2.0029	3.5500e-003	0.0739	0.0613	0.1352	0.0196	0.0612	0.0809	0.0000	340.8919	340.8919	0.0176	1.6700e-003	341.8281
Maximum	23.0537	23.1001	15.5628	0.0520	7.1647	0.8385	7.9075	3.4465	0.7834	4.1298	0.0000	5,356.4340	5,356.4340	0.8662	0.4651	5,516.6966

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	2.0025	23.1001	15.5628	0.0520	3.2693	0.8385	4.0120	1.5629	0.7834	2.2462	0.0000	5,356.4340	5,356.4340	0.8662	0.4651	5,516.6966
2023	23.0537	14.1148	15.3264	0.0297	0.4142	0.6177	1.0319	0.1112	0.5919	0.7031	0.0000	2,776.7069	2,776.7069	0.5451	0.0376	2,799.0499
2024	23.0412	1.2342	2.0029	3.5500e-003	0.0739	0.0613	0.1352	0.0196	0.0612	0.0809	0.0000	340.8919	340.8919	0.0176	1.6700e-003	341.8281
Maximum	23.0537	23.1001	15.5628	0.0520	3.2693	0.8385	4.0120	1.5629	0.7834	2.2462	0.0000	5,356.4340	5,356.4340	0.8662	0.4651	5,516.6966

Senter Housing - Bay Area AQMD 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	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472
Energy	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
Mobile	0.4937	0.5846	4.8741	9.3400e-003	1.0459	7.0000e-003	1.0529	0.2786	6.5200e-003	0.2851		966.3544	966.3544	0.0684	0.0490	982.6578
Total	2.0657	0.8545	11.1485	0.0180	1.0459	0.3984	1.4443	0.2786	0.3979	0.6764	53.5742	1,217.6878	1,271.2620	0.3698	0.0535	1,296.4374

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	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472
Energy	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
Mobile	0.4937	0.5846	4.8741	9.3400e-003	1.0459	7.0000e-003	1.0529	0.2786	6.5200e-003	0.2851		966.3544	966.3544	0.0684	0.0490	982.6578
Total	2.0657	0.8545	11.1485	0.0180	1.0459	0.3984	1.4443	0.2786	0.3979	0.6764	53.5742	1,217.6878	1,271.2620	0.3698	0.0535	1,296.4374

Senter Housing - Bay Area AQMD 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2022	10/5/2022	5	25	
2	Site Preparation	Site Preparation	10/6/2022	10/26/2022	5	15	
3	Grading	Grading	10/27/2022	12/7/2022	5	30	
4	Building Construction	Building Construction	12/8/2022	11/1/2023	5	235	
5	Paving	Paving	11/2/2023	11/22/2023	5	15	
6	Architectural Coating	Architectural Coating	11/23/2023	1/3/2024	5	30	

Acres of Grading (Site Preparation Phase): 22.5

Acres of Grading (Grading Phase): 30

Acres of Paving: 0

Residential Indoor: 96,991; Residential Outdoor: 32,330; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,551 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Senter Housing - Bay Area AQMD Air District, Winter

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

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	635.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	43.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Senter Housing - Bay Area AQMD Air District, Winter

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

3.2 Demolition - 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	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191

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	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450
Total	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450

Senter Housing - Bay Area AQMD Air District, Winter

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

3.2 Demolition - 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	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
Total	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191

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	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450
Total	0.0386	0.0282	0.3206	8.9000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.1000e-004	0.0288		90.3377	90.3377	3.0000e-003	2.7900e-003	91.2450

Senter Housing - Bay Area AQMD Air District, Winter

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

3.3 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					1.6291	0.0000	1.6291	0.1776	0.0000	0.1776			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	1.6291	0.5952	2.2242	0.1776	0.5476	0.7251		2,375.1569	2,375.1569	0.7682		2,394.3613

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	0.1948	7.4155	1.5651	0.0269	0.7404	0.0654	0.8058	0.2029	0.0626	0.2655		2,925.6846	2,925.6846	0.0962	0.4634	3,066.1846
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	0.0238	0.0173	0.1973	5.5000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		55.5924	55.5924	1.8500e-003	1.7200e-003	56.1508
Total	0.2186	7.4328	1.7624	0.0274	0.8061	0.0658	0.8719	0.2204	0.0629	0.2833		2,981.2771	2,981.2771	0.0981	0.4651	3,122.3354

Senter Housing - Bay Area AQMD Air District, Winter

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

3.3 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					0.7331	0.0000	0.7331	0.0799	0.0000	0.0799			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
Total	1.3784	15.6673	10.0558	0.0245	0.7331	0.5952	1.3283	0.0799	0.5476	0.6275	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613

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	0.1948	7.4155	1.5651	0.0269	0.7404	0.0654	0.8058	0.2029	0.0626	0.2655		2,925.6846	2,925.6846	0.0962	0.4634	3,066.1846
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	0.0238	0.0173	0.1973	5.5000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.2000e-004	0.0178		55.5924	55.5924	1.8500e-003	1.7200e-003	56.1508
Total	0.2186	7.4328	1.7624	0.0274	0.8061	0.0658	0.8719	0.2204	0.0629	0.2833		2,981.2771	2,981.2771	0.0981	0.4651	3,122.3354

Senter Housing - Bay Area AQMD Air District, Winter

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

3.4 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0826	0.7423	7.8249	3.4247	0.6829	4.1076		1,995.4825	1,995.4825	0.6454		2,011.6169

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	0.0297	0.0217	0.2466	6.8000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		69.4905	69.4905	2.3100e-003	2.1500e-003	70.1885
Total	0.0297	0.0217	0.2466	6.8000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		69.4905	69.4905	2.3100e-003	2.1500e-003	70.1885

Senter Housing - Bay Area AQMD Air District, Winter

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

3.4 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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	3.1872	0.7423	3.9294	1.5411	0.6829	2.2240	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

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	0.0297	0.0217	0.2466	6.8000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		69.4905	69.4905	2.3100e-003	2.1500e-003	70.1885
Total	0.0297	0.0217	0.2466	6.8000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		69.4905	69.4905	2.3100e-003	2.1500e-003	70.1885

Senter Housing - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

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	0.0192	0.5120	0.1492	1.9100e-003	0.0610	5.1900e-003	0.0661	0.0176	4.9600e-003	0.0225		204.3700	204.3700	4.4300e-003	0.0303	213.5149
Worker	0.1278	0.0931	1.0603	2.9400e-003	0.3532	1.8500e-003	0.3551	0.0937	1.7000e-003	0.0954		298.8093	298.8093	9.9300e-003	9.2400e-003	301.8103
Total	0.1470	0.6051	1.2095	4.8500e-003	0.4142	7.0400e-003	0.4212	0.1112	6.6600e-003	0.1179		503.1793	503.1793	0.0144	0.0396	515.3252

Senter Housing - Bay Area AQMD Air District, Winter

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

3.5 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

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	0.0192	0.5120	0.1492	1.9100e-003	0.0610	5.1900e-003	0.0661	0.0176	4.9600e-003	0.0225		204.3700	204.3700	4.4300e-003	0.0303	213.5149
Worker	0.1278	0.0931	1.0603	2.9400e-003	0.3532	1.8500e-003	0.3551	0.0937	1.7000e-003	0.0954		298.8093	298.8093	9.9300e-003	9.2400e-003	301.8103
Total	0.1470	0.6051	1.2095	4.8500e-003	0.4142	7.0400e-003	0.4212	0.1112	6.6600e-003	0.1179		503.1793	503.1793	0.0144	0.0396	515.3252

Senter Housing - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4600e-003	0.4085	0.1275	1.8300e-003	0.0610	2.3500e-003	0.0633	0.0176	2.2400e-003	0.0198		195.9949	195.9949	3.9800e-003	0.0290	204.7383
Worker	0.1193	0.0824	0.9845	2.8500e-003	0.3532	1.7500e-003	0.3550	0.0937	1.6100e-003	0.0953		291.1887	291.1887	8.9800e-003	8.5600e-003	293.9637
Total	0.1288	0.4909	1.1120	4.6800e-003	0.4142	4.1000e-003	0.4183	0.1112	3.8500e-003	0.1151		487.1836	487.1836	0.0130	0.0376	498.7020

Senter Housing - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
Total	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.4600e-003	0.4085	0.1275	1.8300e-003	0.0610	2.3500e-003	0.0633	0.0176	2.2400e-003	0.0198		195.9949	195.9949	3.9800e-003	0.0290	204.7383
Worker	0.1193	0.0824	0.9845	2.8500e-003	0.3532	1.7500e-003	0.3550	0.0937	1.6100e-003	0.0953		291.1887	291.1887	8.9800e-003	8.5600e-003	293.9637
Total	0.1288	0.4909	1.1120	4.6800e-003	0.4142	4.1000e-003	0.4183	0.1112	3.8500e-003	0.1151		487.1836	487.1836	0.0130	0.0376	498.7020

Senter Housing - Bay Area AQMD Air District, Winter

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

3.6 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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
Total	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455

Senter Housing - Bay Area AQMD Air District, Winter

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

3.6 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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
Total	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455

Senter Housing - Bay Area AQMD Air District, Winter

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

3.7 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	22.8370					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	23.0287	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	0.0250	0.0173	0.2061	6.0000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		60.9465	60.9465	1.8800e-003	1.7900e-003	61.5273
Total	0.0250	0.0173	0.2061	6.0000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		60.9465	60.9465	1.8800e-003	1.7900e-003	61.5273

Senter Housing - Bay Area AQMD Air District, Winter

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

3.7 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	22.8370					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	23.0287	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	0.0250	0.0173	0.2061	6.0000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		60.9465	60.9465	1.8800e-003	1.7900e-003	61.5273
Total	0.0250	0.0173	0.2061	6.0000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		60.9465	60.9465	1.8800e-003	1.7900e-003	61.5273

Senter Housing - Bay Area AQMD Air District, Winter

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

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.8370					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	23.0178	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0234	0.0154	0.1927	5.8000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		59.4439	59.4439	1.7100e-003	1.6700e-003	59.9839
Total	0.0234	0.0154	0.1927	5.8000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		59.4439	59.4439	1.7100e-003	1.6700e-003	59.9839

Senter Housing - Bay Area AQMD Air District, Winter

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

3.7 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.8370					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	23.0178	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0234	0.0154	0.1927	5.8000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		59.4439	59.4439	1.7100e-003	1.6700e-003	59.9839
Total	0.0234	0.0154	0.1927	5.8000e-004	0.0739	3.5000e-004	0.0743	0.0196	3.2000e-004	0.0199		59.4439	59.4439	1.7100e-003	1.6700e-003	59.9839

Senter Housing - Bay Area AQMD 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	0.4937	0.5846	4.8741	9.3400e-003	1.0459	7.0000e-003	1.0529	0.2786	6.5200e-003	0.2851		966.3544	966.3544	0.0684	0.0490	982.6578
Unmitigated	0.4937	0.5846	4.8741	9.3400e-003	1.0459	7.0000e-003	1.0529	0.2786	6.5200e-003	0.2851		966.3544	966.3544	0.0684	0.0490	982.6578

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	215.16	215.16	215.16	496,935	496,935
Parking Lot	0.00	0.00	0.00		
Total	215.16	215.16	215.16	496,935	496,935

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Senter Housing - Bay Area AQMD Air District, Winter

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
Condo/Townhouse	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871
Parking Lot	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

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	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
NaturalGas Unmitigated	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324

Senter Housing - Bay Area AQMD 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					
Condo/Townhouse	2080.61	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
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
Total		0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324

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					
Condo/Townhouse	2.08061	0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324
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
Total		0.0224	0.1917	0.0816	1.2200e-003		0.0155	0.0155		0.0155	0.0155		244.7779	244.7779	4.6900e-003	4.4900e-003	246.2324

6.0 Area Detail

Senter Housing - Bay Area AQMD Air District, Winter

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

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472
Unmitigated	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472

Senter Housing - Bay Area AQMD Air District, Winter

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

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	0.1877					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2178	0.0363	2.5553	7.2600e-003		0.3557	0.3557		0.3557	0.3557	53.5742	0.0000	53.5742	0.2904	0.0000	60.8336
Landscaping	0.1099	0.0419	3.6375	1.9000e-004		0.0201	0.0201		0.0201	0.0201		6.5556	6.5556	6.3200e-003		6.7136
Total	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472

Senter Housing - Bay Area AQMD Air District, Winter

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	0.1877					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0342					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2178	0.0363	2.5553	7.2600e-003		0.3557	0.3557		0.3557	0.3557	53.5742	0.0000	53.5742	0.2904	0.0000	60.8336
Landscaping	0.1099	0.0419	3.6375	1.9000e-004		0.0201	0.0201		0.0201	0.0201		6.5556	6.5556	6.3200e-003		6.7136
Total	1.5496	0.0782	6.1928	7.4500e-003		0.3759	0.3759		0.3759	0.3759	53.5742	6.5556	60.1298	0.2967	0.0000	67.5472

7.0 Water Detail

7.1 Mitigation Measures Water

Senter Housing - Bay Area AQMD 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
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
