

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

Habitat Santee 17 Unit Affordable Housing Project

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	33.00	Space	0.30	13,200.00	0
Apartment Low Rise	17.00	Dwelling Unit	1.06	17,000.00	49

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2024
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Painting phase overlapped with building construction to reflect actual construction scheduling.

Demolition -

Architectural Coating - Paint VOC concentrations reflect SDAPCD Rule 67 limits.

Area Coating - SDAPCD Rule 67 VOC limits

Construction Off-road Equipment Mitigation -

Area Mitigation - SDAPCD Rule 67

Water Mitigation -

Waste Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Parking	250	150
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	PhaseEndDate	1/9/2025	12/12/2024
tblConstructionPhase	PhaseStartDate	12/27/2024	10/12/2024

2.0 Emissions Summary

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	26.4583	0.5243	33.5201	0.0583		4.5106	4.5106		4.5106	4.5106	472.1194	200.5326	672.6520	0.4381	0.0371	694.6717
Energy	5.4700e-003	0.0468	0.0199	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6951	59.6951	1.1400e-003	1.0900e-003	60.0498
Mobile	0.3987	0.4050	3.5798	7.9100e-003	0.8318	5.9400e-003	0.8377	0.2216	5.5400e-003	0.2271		805.6387	805.6387	0.0535	0.0339	817.0612
Total	26.8625	0.9761	37.1198	0.0665	0.8318	4.5203	5.3521	0.2216	4.5199	4.7415	472.1194	1,065.8664	1,537.9858	0.4927	0.0721	1,571.7827

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	0.4416	0.0162	1.4053	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.5326	2.5326	2.4400e-003	0.0000	2.5937
Energy	5.4700e-003	0.0468	0.0199	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6951	59.6951	1.1400e-003	1.0900e-003	60.0498
Mobile	0.3987	0.4050	3.5798	7.9100e-003	0.8318	5.9400e-003	0.8377	0.2216	5.5400e-003	0.2271		805.6387	805.6387	0.0535	0.0339	817.0612
Total	0.8457	0.4680	5.0050	8.2800e-003	0.8318	0.0175	0.8493	0.2216	0.0171	0.2387	0.0000	867.8664	867.8664	0.0570	0.0349	879.7046

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	96.85	52.05	86.52	87.54	0.00	99.61	84.13	0.00	99.62	94.97	100.00	18.58	43.57	88.43	51.53	44.03

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2024	2/28/2024	5	20	
2	Site Preparation	Site Preparation	2/29/2024	3/1/2024	5	2	
3	Grading	Grading	3/2/2024	3/7/2024	5	4	
4	Building Construction	Building Construction	3/8/2024	12/12/2024	5	200	
5	Paving	Paving	12/13/2024	12/26/2024	5	10	
6	Architectural Coating	Architectural Coating	10/12/2024	12/12/2024	5	44	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.3

Residential Indoor: 34,425; Residential Outdoor: 11,475; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 792 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

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Site Preparation	Tractors/Loaders/Backhoes	1	8.00	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	6.00	231	0.29
Building Construction	Forklifts	1	6.00	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	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	9.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	18.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Demolition - 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					
Fugitive Dust					0.0997	0.0000	0.0997	0.0151	0.0000	0.0151			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324.9459	2,324.9459	0.5884		2,339.6562
Total	1.4397	13.8867	13.4879	0.0241	0.0997	0.6311	0.7308	0.0151	0.5895	0.6046		2,324.9459	2,324.9459	0.5884		2,339.6562

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	1.0100e-003	0.0584	0.0164	2.6000e-004	7.8700e-003	5.0000e-004	8.3700e-003	2.1600e-003	4.8000e-004	2.6400e-003		29.2336	29.2336	1.5500e-003	4.6500e-003	30.6587
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	0.0334	0.0198	0.2911	9.1000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		92.2426	92.2426	2.3500e-003	2.2200e-003	92.9636
Total	0.0344	0.0782	0.3075	1.1700e-003	0.1147	1.0400e-003	0.1157	0.0305	9.8000e-004	0.0315		121.4763	121.4763	3.9000e-003	6.8700e-003	123.6222

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3.2 Demolition - 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					
Fugitive Dust					0.0449	0.0000	0.0449	6.7900e-003	0.0000	6.7900e-003			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562
Total	1.4397	13.8867	13.4879	0.0241	0.0449	0.6311	0.6760	6.7900e-003	0.5895	0.5963	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562

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	1.0100e-003	0.0584	0.0164	2.6000e-004	7.8700e-003	5.0000e-004	8.3700e-003	2.1600e-003	4.8000e-004	2.6400e-003		29.2336	29.2336	1.5500e-003	4.6500e-003	30.6587
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	0.0334	0.0198	0.2911	9.1000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		92.2426	92.2426	2.3500e-003	2.2200e-003	92.9636
Total	0.0344	0.0782	0.3075	1.1700e-003	0.1147	1.0400e-003	0.1157	0.0305	9.8000e-004	0.0315		121.4763	121.4763	3.9000e-003	6.8700e-003	123.6222

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3.3 Site Preparation - 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					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.1067	11.8407	6.6317	0.0172		0.4823	0.4823		0.4437	0.4437		1,665.8826	1,665.8826	0.5388		1,679.3521
Total	1.1067	11.8407	6.6317	0.0172	6.2662	0.4823	6.7485	3.0041	0.4437	3.4478		1,665.8826	1,665.8826	0.5388		1,679.3521

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	0.0205	0.0122	0.1791	5.6000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.1000e-004	0.0177		56.7647	56.7647	1.4500e-003	1.3700e-003	57.2084
Total	0.0205	0.0122	0.1791	5.6000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.1000e-004	0.0177		56.7647	56.7647	1.4500e-003	1.3700e-003	57.2084

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3.3 Site Preparation - 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					
Fugitive Dust					2.8198	0.0000	2.8198	1.3518	0.0000	1.3518			0.0000			0.0000
Off-Road	1.1067	11.8407	6.6317	0.0172		0.4823	0.4823		0.4437	0.4437	0.0000	1,665.8826	1,665.8826	0.5388		1,679.3521
Total	1.1067	11.8407	6.6317	0.0172	2.8198	0.4823	3.3020	1.3518	0.4437	1.7955	0.0000	1,665.8826	1,665.8826	0.5388		1,679.3521

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	0.0205	0.0122	0.1791	5.6000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.1000e-004	0.0177		56.7647	56.7647	1.4500e-003	1.3700e-003	57.2084
Total	0.0205	0.0122	0.1791	5.6000e-004	0.0657	3.4000e-004	0.0661	0.0174	3.1000e-004	0.0177		56.7647	56.7647	1.4500e-003	1.3700e-003	57.2084

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3.4 Grading - 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					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265		1,995.5803	1,995.5803	0.6454		2,011.7155
Total	1.3015	13.8178	8.6998	0.0206	7.0826	0.5722	7.6548	3.4247	0.5265	3.9512		1,995.5803	1,995.5803	0.6454		2,011.7155

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	0.0257	0.0153	0.2239	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		70.9559	70.9559	1.8100e-003	1.7100e-003	71.5104
Total	0.0257	0.0153	0.2239	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		70.9559	70.9559	1.8100e-003	1.7100e-003	71.5104

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3.4 Grading - 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					
Fugitive Dust					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.580 3	1,995.580 3	0.6454		2,011.715 5
Total	1.3015	13.8178	8.6998	0.0206	3.1872	0.5722	3.7594	1.5411	0.5265	2.0676	0.0000	1,995.580 3	1,995.580 3	0.6454		2,011.715 5

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	0.0257	0.0153	0.2239	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		70.9559	70.9559	1.8100e-003	1.7100e-003	71.5104
Total	0.0257	0.0153	0.2239	7.0000e-004	0.0822	4.2000e-004	0.0826	0.0218	3.9000e-004	0.0222		70.9559	70.9559	1.8100e-003	1.7100e-003	71.5104

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3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

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	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0462	0.0275	0.4030	1.2600e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		127.7206	127.7206	3.2600e-003	3.0800e-003	128.7188
Total	0.0508	0.1978	0.4634	2.0600e-003	0.1750	1.8000e-003	0.1768	0.0470	1.6900e-003	0.0487		214.5978	214.5978	6.0000e-003	0.0157	219.4129

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563

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	4.6000e-003	0.1703	0.0604	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		86.8772	86.8772	2.7400e-003	0.0126	90.6941
Worker	0.0462	0.0275	0.4030	1.2600e-003	0.1479	7.5000e-004	0.1486	0.0392	6.9000e-004	0.0399		127.7206	127.7206	3.2600e-003	3.0800e-003	128.7188
Total	0.0508	0.1978	0.4634	2.0600e-003	0.1750	1.8000e-003	0.1768	0.0470	1.6900e-003	0.0487		214.5978	214.5978	6.0000e-003	0.0157	219.4129

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6966	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.8688	1,297.8688	0.4114		1,308.1547

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	0.0334	0.0198	0.2911	9.1000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		92.2426	92.2426	2.3500e-003	2.2200e-003	92.9636
Total	0.0334	0.0198	0.2911	9.1000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		92.2426	92.2426	2.3500e-003	2.2200e-003	92.9636

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

3.6 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0786					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6966	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547

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	0.0334	0.0198	0.2911	9.1000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		92.2426	92.2426	2.3500e-003	2.2200e-003	92.9636
Total	0.0334	0.0198	0.2911	9.1000e-004	0.1068	5.4000e-004	0.1073	0.0283	5.0000e-004	0.0288		92.2426	92.2426	2.3500e-003	2.2200e-003	92.9636

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.5427					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	2.7235	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	0.0103	6.1000e-003	0.0896	2.8000e-004	0.0329	1.7000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		28.3824	28.3824	7.2000e-004	6.8000e-004	28.6042
Total	0.0103	6.1000e-003	0.0896	2.8000e-004	0.0329	1.7000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		28.3824	28.3824	7.2000e-004	6.8000e-004	28.6042

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.5427					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	2.7235	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	0.0103	6.1000e-003	0.0896	2.8000e-004	0.0329	1.7000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		28.3824	28.3824	7.2000e-004	6.8000e-004	28.6042
Total	0.0103	6.1000e-003	0.0896	2.8000e-004	0.0329	1.7000e-004	0.0330	8.7200e-003	1.5000e-004	8.8700e-003		28.3824	28.3824	7.2000e-004	6.8000e-004	28.6042

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3987	0.4050	3.5798	7.9100e-003	0.8318	5.9400e-003	0.8377	0.2216	5.5400e-003	0.2271		805.6387	805.6387	0.0535	0.0339	817.0612
Unmitigated	0.3987	0.4050	3.5798	7.9100e-003	0.8318	5.9400e-003	0.8377	0.2216	5.5400e-003	0.2271		805.6387	805.6387	0.0535	0.0339	817.0612

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	124.44	138.38	106.76	353,788	353,788
Parking Lot	0.00	0.00	0.00		
Total	124.44	138.38	106.76	353,788	353,788

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949
Parking Lot	0.557888	0.062607	0.178921	0.119061	0.024112	0.006269	0.008734	0.006266	0.000708	0.000566	0.028949	0.000971	0.004949

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	5.4700e-003	0.0468	0.0199	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6951	59.6951	1.1400e-003	1.0900e-003	60.0498
NaturalGas Unmitigated	5.4700e-003	0.0468	0.0199	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6951	59.6951	1.1400e-003	1.0900e-003	60.0498

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	507.408	5.4700e-003	0.0468	0.0199	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6951	59.6951	1.1400e-003	1.0900e-003	60.0498
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		5.4700e-003	0.0468	0.0199	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6951	59.6951	1.1400e-003	1.0900e-003	60.0498

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	0.507408	5.4700e-003	0.0468	0.0199	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6951	59.6951	1.1400e-003	1.0900e-003	60.0498
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		5.4700e-003	0.0468	0.0199	3.0000e-004		3.7800e-003	3.7800e-003		3.7800e-003	3.7800e-003		59.6951	59.6951	1.1400e-003	1.0900e-003	60.0498

6.0 Area Detail

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.4416	0.0162	1.4053	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.5326	2.5326	2.4400e-003	0.0000	2.5937
Unmitigated	26.4583	0.5243	33.5201	0.0583		4.5106	4.5106		4.5106	4.5106	472.1194	200.5326	672.6520	0.4381	0.0371	694.6717

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

6.2 Area by SubCategory

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	0.0307					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	26.0167	0.5081	32.1148	0.0582		4.5028	4.5028		4.5028	4.5028	472.1194	198.0000	670.1194	0.4357	0.0371	692.0781
Landscaping	0.0425	0.0162	1.4053	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003		2.5326	2.5326	2.4400e-003		2.5937
Total	26.4583	0.5243	33.5201	0.0583		4.5106	4.5106		4.5106	4.5106	472.1194	200.5326	672.6520	0.4381	0.0371	694.6717

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0307					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3685					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0425	0.0162	1.4053	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003		2.5326	2.5326	2.4400e-003		2.5937
Total	0.4416	0.0162	1.4053	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.5326	2.5326	2.4400e-003	0.0000	2.5937

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Habitat Santee 17 Unit Affordable Housing Project - San Diego County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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
