

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

OASIS Ctr 206.3.2 101717
Santa Barbara-North of Santa Ynez County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Health Club	15.33	1000sqft	0.35	15,330.00	300
Other Non-Asphalt Surfaces	26.50	1000sqft	0.61	26,500.00	0
Parking Lot	28.20	1000sqft	0.65	28,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.1	Precipitation Freq (Days)	37
Climate Zone	4			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Meeting Center for seniors rentals/events. Used footprint for lot ac, per CalEEMod User Guide p 19 & separated paved vs gravel parking. 300 max attendees proposed

Construction Phase - Project specific estimate of workdays

Vehicle Trips - WkDy trip rate based on ITE Code 495 instead of 492 (although very similar)

Solid Waste - Unmitigated operational tons/yr (based on calcs in project ND)

Land Use Change - Based on sheet G1.0 open space stats

Energy Mitigation - solar panels on roof

Water Mitigation - may be more than 20% but conservative: drought tolerant native plants, drip irrigation, grey water (collect rain water for lanscape irrigation), bioswales, approx 1/2 parking area permeable surface

Waste Mitigation - recycle std paper/metal/glass also landscape material

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	9/25/2018	5/15/2019
tblConstructionPhase	PhaseEndDate	8/28/2018	4/1/2019
tblConstructionPhase	PhaseEndDate	11/13/2017	6/1/2018
tblConstructionPhase	PhaseEndDate	11/21/2017	9/1/2018
tblConstructionPhase	PhaseEndDate	9/11/2018	4/15/2019
tblConstructionPhase	PhaseEndDate	11/15/2017	6/15/2018
tblConstructionPhase	PhaseStartDate	9/12/2018	4/16/2019
tblConstructionPhase	PhaseStartDate	11/22/2017	9/2/2018
tblConstructionPhase	PhaseStartDate	10/17/2017	6/1/2018
tblConstructionPhase	PhaseStartDate	11/16/2017	6/16/2018
tblConstructionPhase	PhaseStartDate	8/29/2018	4/2/2019
tblConstructionPhase	PhaseStartDate	11/14/2017	6/2/2018
tblLandUse	Population	0.00	300.00

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	0.4559	7.0000e-005	7.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0153	0.0153	4.0000e-005		0.0164
Energy	0.0120	0.1086	0.0912	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003		130.3482	130.3482	2.5000e-003	2.3900e-003	131.1228
Mobile	1.0036	3.0368	8.6031	0.0173	1.4211	0.0247	1.4458	0.3813	0.0233	0.4046		1,746.3040	1,746.3040	0.1031		1,748.8823
Total	1.4714	3.1455	8.7016	0.0179	1.4211	0.0330	1.4541	0.3813	0.0316	0.4129		1,876.6676	1,876.6676	0.1057	2.3900e-003	1,880.0214

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	0.4559	7.0000e-005	7.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0153	0.0153	4.0000e-005		0.0164
Energy	0.0120	0.1086	0.0912	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003		130.3482	130.3482	2.5000e-003	2.3900e-003	131.1228
Mobile	1.0036	3.0368	8.6031	0.0173	1.4211	0.0247	1.4458	0.3813	0.0233	0.4046		1,746.3040	1,746.3040	0.1031		1,748.8823
Total	1.4714	3.1455	8.7016	0.0179	1.4211	0.0330	1.4541	0.3813	0.0316	0.4129		1,876.6676	1,876.6676	0.1057	2.3900e-003	1,880.0214

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2018	6/1/2018	5	20	
2	Site Preparation	Site Preparation	6/2/2018	6/15/2018	5	2	
3	Grading	Grading	6/16/2018	9/1/2018	5	4	
4	Building Construction	Building Construction	9/2/2018	4/1/2019	5	200	
5	Paving	Paving	4/2/2019	4/15/2019	5	10	
6	Architectural Coating	Architectural Coating	4/16/2019	5/15/2019	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 1.26

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 22,995; Non-Residential Outdoor: 7,665; Striped Parking Area: 3,282 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

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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	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	29.00	11.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

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	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105

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3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0496	0.0409	0.3895	7.9000e-004	0.0821	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		78.5349	78.5349	3.2700e-003		78.6167
Total	0.0496	0.0409	0.3895	7.9000e-004	0.0821	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		78.5349	78.5349	3.2700e-003		78.6167

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	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105

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3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0496	0.0409	0.3895	7.9000e-004	0.0821	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		78.5349	78.5349	3.2700e-003		78.6167
Total	0.0496	0.0409	0.3895	7.9000e-004	0.0821	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		78.5349	78.5349	3.2700e-003		78.6167

3.3 Site Preparation - 2018

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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.8061	20.7472	8.0808	0.0172		0.9523	0.9523		0.8761	0.8761		1,735.3630	1,735.3630	0.5402		1,748.8690
Total	1.8061	20.7472	8.0808	0.0172	5.7996	0.9523	6.7518	2.9537	0.8761	3.8298		1,735.3630	1,735.3630	0.5402		1,748.8690

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3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0252	0.2397	4.9000e-004	0.0505	3.4000e-004	0.0509	0.0134	3.2000e-004	0.0137		48.3292	48.3292	2.0100e-003		48.3795
Total	0.0305	0.0252	0.2397	4.9000e-004	0.0505	3.4000e-004	0.0509	0.0134	3.2000e-004	0.0137		48.3292	48.3292	2.0100e-003		48.3795

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					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.8061	20.7472	8.0808	0.0172		0.9523	0.9523		0.8761	0.8761	0.0000	1,735.3630	1,735.3630	0.5402		1,748.8690
Total	1.8061	20.7472	8.0808	0.0172	5.7996	0.9523	6.7518	2.9537	0.8761	3.8298	0.0000	1,735.3630	1,735.3630	0.5402		1,748.8690

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3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0252	0.2397	4.9000e-004	0.0505	3.4000e-004	0.0509	0.0134	3.2000e-004	0.0137		48.3292	48.3292	2.0100e-003		48.3795
Total	0.0305	0.0252	0.2397	4.9000e-004	0.0505	3.4000e-004	0.0509	0.0134	3.2000e-004	0.0137		48.3292	48.3292	2.0100e-003		48.3795

3.4 Grading - 2018

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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.4972	17.0666	6.7630	0.0141		0.7947	0.7947		0.7311	0.7311		1,421.2605	1,421.2605	0.4425		1,432.3219
Total	1.4972	17.0666	6.7630	0.0141	4.9143	0.7947	5.7090	2.5256	0.7311	3.2568		1,421.2605	1,421.2605	0.4425		1,432.3219

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3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0252	0.2397	4.9000e-004	0.0505	3.4000e-004	0.0509	0.0134	3.2000e-004	0.0137		48.3292	48.3292	2.0100e-003		48.3795
Total	0.0305	0.0252	0.2397	4.9000e-004	0.0505	3.4000e-004	0.0509	0.0134	3.2000e-004	0.0137		48.3292	48.3292	2.0100e-003		48.3795

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.4972	17.0666	6.7630	0.0141		0.7947	0.7947		0.7311	0.7311	0.0000	1,421.2605	1,421.2605	0.4425		1,432.3219
Total	1.4972	17.0666	6.7630	0.0141	4.9143	0.7947	5.7090	2.5256	0.7311	3.2568	0.0000	1,421.2605	1,421.2605	0.4425		1,432.3219

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3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0252	0.2397	4.9000e-004	0.0505	3.4000e-004	0.0509	0.0134	3.2000e-004	0.0137		48.3292	48.3292	2.0100e-003		48.3795
Total	0.0305	0.0252	0.2397	4.9000e-004	0.0505	3.4000e-004	0.0509	0.0134	3.2000e-004	0.0137		48.3292	48.3292	2.0100e-003		48.3795

3.5 Building Construction - 2018

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	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216		2,030.8389	2,030.8389	0.4088		2,041.0596
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216		2,030.8389	2,030.8389	0.4088		2,041.0596

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3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0619	1.3951	0.5130	2.6800e-003	0.0652	0.0127	0.0779	0.0188	0.0122	0.0309		288.8668	288.8668	0.0214		289.4011
Worker	0.1106	0.0913	0.8689	1.7600e-003	0.1832	1.2500e-003	0.1844	0.0486	1.1500e-003	0.0497		175.1933	175.1933	7.3000e-003		175.3757
Total	0.1725	1.4864	1.3819	4.4400e-003	0.2483	0.0140	0.2623	0.0673	0.0133	0.0807		464.0601	464.0601	0.0287		464.7768

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	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.8389	2,030.8389	0.4088		2,041.0596
Total	2.5919	17.4280	13.8766	0.0220		1.0580	1.0580		1.0216	1.0216	0.0000	2,030.8389	2,030.8389	0.4088		2,041.0596

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0619	1.3951	0.5130	2.6800e-003	0.0652	0.0127	0.0779	0.0188	0.0122	0.0309		288.8668	288.8668	0.0214		289.4011
Worker	0.1106	0.0913	0.8689	1.7600e-003	0.1832	1.2500e-003	0.1844	0.0486	1.1500e-003	0.0497		175.1933	175.1933	7.3000e-003		175.3757
Total	0.1725	1.4864	1.3819	4.4400e-003	0.2483	0.0140	0.2623	0.0673	0.0133	0.0807		464.0601	464.0601	0.0287		464.7768

3.5 Building Construction - 2019

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	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
Total	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0539	1.3179	0.4600	2.6500e-003	0.0651	0.0103	0.0754	0.0187	9.8300e-003	0.0286		287.0210	287.0210	0.0213		287.5535
Worker	0.0997	0.0799	0.7678	1.7100e-003	0.1832	1.2100e-003	0.1844	0.0486	1.1100e-003	0.0497		170.0787	170.0787	6.4000e-003		170.2387
Total	0.1535	1.3978	1.2278	4.3600e-003	0.2483	0.0115	0.2598	0.0673	0.0109	0.0783		457.0997	457.0997	0.0277		457.7922

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	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
Total	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0539	1.3179	0.4600	2.6500e-003	0.0651	0.0103	0.0754	0.0187	9.8300e-003	0.0286		287.0210	287.0210	0.0213		287.5535
Worker	0.0997	0.0799	0.7678	1.7100e-003	0.1832	1.2100e-003	0.1844	0.0486	1.1100e-003	0.0497		170.0787	170.0787	6.4000e-003		170.2387
Total	0.1535	1.3978	1.2278	4.3600e-003	0.2483	0.0115	0.2598	0.0673	0.0109	0.0783		457.0997	457.0997	0.0277		457.7922

3.6 Paving - 2019

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	0.9038	9.1743	8.9025	0.0135		0.5225	0.5225		0.4815	0.4815		1,325.0953	1,325.0953	0.4112		1,335.3751
Paving	0.1703					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0741	9.1743	8.9025	0.0135		0.5225	0.5225		0.4815	0.4815		1,325.0953	1,325.0953	0.4112		1,335.3751

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

3.6 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0447	0.0358	0.3442	7.7000e-004	0.0821	5.4000e-004	0.0826	0.0218	5.0000e-004	0.0223		76.2422	76.2422	2.8700e-003		76.3139
Total	0.0447	0.0358	0.3442	7.7000e-004	0.0821	5.4000e-004	0.0826	0.0218	5.0000e-004	0.0223		76.2422	76.2422	2.8700e-003		76.3139

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	0.9038	9.1743	8.9025	0.0135		0.5225	0.5225		0.4815	0.4815	0.0000	1,325.0953	1,325.0953	0.4112		1,335.3751
Paving	0.1703					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0741	9.1743	8.9025	0.0135		0.5225	0.5225		0.4815	0.4815	0.0000	1,325.0953	1,325.0953	0.4112		1,335.3751

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

3.6 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0447	0.0358	0.3442	7.7000e-004	0.0821	5.4000e-004	0.0826	0.0218	5.0000e-004	0.0223		76.2422	76.2422	2.8700e-003		76.3139
Total	0.0447	0.0358	0.3442	7.7000e-004	0.0821	5.4000e-004	0.0826	0.0218	5.0000e-004	0.0223		76.2422	76.2422	2.8700e-003		76.3139

3.7 Architectural Coating - 2019

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	39.3303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	39.5967	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

3.7 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0206	0.0165	0.1589	3.5000e-004	0.0379	2.5000e-004	0.0381	0.0101	2.3000e-004	0.0103		35.1887	35.1887	1.3200e-003		35.2218
Total	0.0206	0.0165	0.1589	3.5000e-004	0.0379	2.5000e-004	0.0381	0.0101	2.3000e-004	0.0103		35.1887	35.1887	1.3200e-003		35.2218

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	39.3303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	39.5967	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

3.7 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0206	0.0165	0.1589	3.5000e-004	0.0379	2.5000e-004	0.0381	0.0101	2.3000e-004	0.0103		35.1887	35.1887	1.3200e-003		35.2218
Total	0.0206	0.0165	0.1589	3.5000e-004	0.0379	2.5000e-004	0.0381	0.0101	2.3000e-004	0.0103		35.1887	35.1887	1.3200e-003		35.2218

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

	ROG	NOx	CO	SO2	Fugitive 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	1.0036	3.0368	8.6031	0.0173	1.4211	0.0247	1.4458	0.3813	0.0233	0.4046		1,746.3040	1,746.3040	0.1031		1,748.8823
Unmitigated	1.0036	3.0368	8.6031	0.0173	1.4211	0.0247	1.4458	0.3813	0.0233	0.4046		1,746.3040	1,746.3040	0.1031		1,748.8823

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Health Club	504.82	319.94	409.77	613,447	613,447
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	504.82	319.94	409.77	613,447	613,447

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
Health Club	6.60	5.50	6.40	16.90	64.10	19.00	52	39	9
Other Non-Asphalt Surfaces	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0
Parking Lot	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Health Club	0.546962	0.032250	0.203301	0.133652	0.025574	0.006384	0.017070	0.018005	0.002749	0.002622	0.007451	0.002735	0.001244
Other Non-Asphalt Surfaces	0.546962	0.032250	0.203301	0.133652	0.025574	0.006384	0.017070	0.018005	0.002749	0.002622	0.007451	0.002735	0.001244
Parking Lot	0.546962	0.032250	0.203301	0.133652	0.025574	0.006384	0.017070	0.018005	0.002749	0.002622	0.007451	0.002735	0.001244

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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	0.0120	0.1086	0.0912	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003		130.3482	130.3482	2.5000e-003	2.3900e-003	131.1228
NaturalGas Unmitigated	0.0120	0.1086	0.0912	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003		130.3482	130.3482	2.5000e-003	2.3900e-003	131.1228

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

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					
Health Club	1107.96	0.0120	0.1086	0.0912	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003		130.3482	130.3482	2.5000e-003	2.3900e-003	131.1228
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0120	0.1086	0.0912	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003		130.3482	130.3482	2.5000e-003	2.3900e-003	131.1228

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					
Health Club	1.10796	0.0120	0.1086	0.0912	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003		130.3482	130.3482	2.5000e-003	2.3900e-003	131.1228
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0120	0.1086	0.0912	6.5000e-004		8.2600e-003	8.2600e-003		8.2600e-003	8.2600e-003		130.3482	130.3482	2.5000e-003	2.3900e-003	131.1228

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6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4559	7.0000e-005	7.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0153	0.0153	4.0000e-005		0.0164
Unmitigated	0.4559	7.0000e-005	7.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0153	0.0153	4.0000e-005		0.0164

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.8000e-004	7.0000e-005	7.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0153	0.0153	4.0000e-005		0.0164
Total	0.4559	7.0000e-005	7.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0153	0.0153	4.0000e-005		0.0164

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	0.1078					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.8000e-004	7.0000e-005	7.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0153	0.0153	4.0000e-005		0.0164
Total	0.4559	7.0000e-005	7.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0153	0.0153	4.0000e-005		0.0164

OASIS Ctr 206.3.2 101717 - Santa Barbara-North of Santa Ynez County, Summer

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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
