

Appendix D

Air Quality and Greenhouse Gas CalEEMod Outputs

Construction

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

9051 Morena Construction - 25% of all uses in 1 year
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	168.56	1000sqft	10.60	168,555.00	0
General Light Industry	298.72	1000sqft	12.95	298,718.00	0
Other Asphalt Surfaces	7.71	Acre	7.71	336,065.40	0
Apartments High Rise	1,491.00	Dwelling Unit	4.53	1,491,000.00	4264
Strip Mall	224.86	1000sqft	16.61	224,864.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

Project Characteristics -

Land Use - 25% of all proposed multi-family, commercial, and industrial land uses, and roads

Construction Phase - Architectural coatings simultaneous with half building construction and paving

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Placeworks CalEEMod Assumptions

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips -

Woodstoves -

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - CLean paved roads

Area Mitigation - Placeworks CalEEMod Assumptions

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	70.00	13.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	110.00	21.00
tblConstructionPhase	NumDays	1,110.00	206.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	NumDays	75.00	14.00
tblLandUse	LandUseSquareFeet	168,560.00	168,555.00
tblLandUse	LandUseSquareFeet	298,720.00	298,718.00
tblLandUse	LandUseSquareFeet	335,847.60	336,065.40
tblLandUse	LandUseSquareFeet	224,860.00	224,864.00
tblLandUse	LotAcreage	3.87	10.60
tblLandUse	LotAcreage	6.86	12.95
tblLandUse	LotAcreage	24.05	4.53
tblLandUse	LotAcreage	5.16	16.61

2.0 Emissions Summary

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

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					
2019	120.9917	91.6468	82.0779	0.2625	43.9189	2.5373	46.0635	10.6083	2.3447	12.9530	0.0000	26,705.34 94	26,705.34 94	2.5550	0.0000	26,753.25 46
Maximum	120.9917	91.6468	82.0779	0.2625	43.9189	2.5373	46.0635	10.6083	2.3447	12.9530	0.0000	26,705.34 94	26,705.34 94	2.5550	0.0000	26,753.25 46

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					
2019	120.9917	91.6468	82.0779	0.2625	22.4302	2.5373	24.5748	5.0974	2.3447	7.4421	0.0000	26,705.34 94	26,705.34 94	2.5550	0.0000	26,753.25 46
Maximum	120.9917	91.6468	82.0779	0.2625	22.4302	2.5373	24.5748	5.0974	2.3447	7.4421	0.0000	26,705.34 94	26,705.34 94	2.5550	0.0000	26,753.25 46

	ROG	NOx	CO	SO2	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	48.93	0.00	46.65	51.95	0.00	42.55	0.00	0.00	0.00	0.00	0.00	0.00

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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	2,349.567 4	45.9761	2,939.305 6	5.1095		395.6047	395.6047		395.6047	395.6047	41,407.65 05	17,587.40 94	58,995.05 99	38.4236	3.2570	60,926.24 39
Energy	0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.969 4
Mobile	17.7761	83.4332	200.6761	0.8277	99.7712	0.4349	100.2060	26.6555	0.4041	27.0596		85,130.48 63	85,130.48 63	4.3043		85,238.09 48
Total	2,367.888 2	134.1822	3,142.831 9	5.9669	99.7712	396.4158	496.1870	26.6555	396.3851	423.0406	41,407.65 05	108,659.5 567	150,067.2 072	42.8419	3.3660	152,141.3 081

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	2,349.567 4	45.9761	2,939.305 6	5.1095		395.6047	395.6047		395.6047	395.6047	41,407.65 05	17,587.40 94	58,995.05 99	38.4236	3.2570	60,926.24 39
Energy	0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.661 1	5,941.6611	0.1139	0.1089	5,976.969 4
Mobile	17.7761	83.4332	200.6761	0.8277	99.7712	0.4349	100.2060	26.6555	0.4041	27.0596		85,130.48 63	85,130.48 63	4.3043		85,238.09 48
Total	2,367.888 2	134.1822	3,142.831 9	5.9669	99.7712	396.4158	496.1870	26.6555	396.3851	423.0406	41,407.65 05	108,659.5 567	150,067.2 072	42.8419	3.3660	152,141.3 081

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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	1/1/2019	1/17/2019	5	13	
2	Site Preparation	Site Preparation	1/18/2019	1/28/2019	5	7	
3	Grading	Grading	1/29/2019	2/26/2019	5	21	
4	Building Construction	Building Construction	2/27/2019	12/11/2019	5	206	
5	Architectural Coating	Architectural Coating	1/1/2019	12/31/2019	5	261	
6	Paving	Paving	12/12/2019	12/31/2019	5	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 7.71

Residential Indoor: 3,019,275; Residential Outdoor: 1,006,425; Non-Residential Indoor: 1,038,206; Non-Residential Outdoor: 346,069; Striped Parking Area: 20,164 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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	6	15.00	0.00	2,274.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,466.00	328.00	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	293.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					
Fugitive Dust					38.3322	0.0000	38.3322	5.8049	0.0000	5.8049			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	38.3322	1.7949	40.1271	5.8049	1.6697	7.4745		3,816.8994	3,816.8994	1.0618		3,843.4451

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3.2 Demolition - 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	1.5612	53.0806	12.1548	0.1365	3.0566	0.2029	3.2595	0.8377	0.1941	1.0318		14,884.3593	14,884.3593	1.3882		14,919.0654
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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
Total	1.6278	53.1268	12.5934	0.1377	3.1798	0.2038	3.3836	0.8704	0.1949	1.0653		15,006.8963	15,006.8963	1.3922		15,041.7013

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					17.2495	0.0000	17.2495	2.6122	0.0000	2.6122			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	17.2495	1.7949	19.0444	2.6122	1.6697	4.2819	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451

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3.2 Demolition - 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	1.5612	53.0806	12.1548	0.1365	2.8485	0.2029	3.0514	0.7866	0.1941	0.9807		14,884.35 93	14,884.35 93	1.3882		14,919.06 54
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	0.0666	0.0462	0.4386	1.2300e-003	0.1136	8.8000e-004	0.1145	0.0303	8.1000e-004	0.0311		122.5371	122.5371	3.9500e-003		122.6359
Total	1.6278	53.1268	12.5934	0.1377	2.9620	0.2038	3.1658	0.8169	0.1949	1.0119		15,006.89 63	15,006.89 63	1.3922		15,041.70 13

3.3 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.452 9	3,766.452 9	1.1917		3,796.244 5
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.452 9	3,766.452 9	1.1917		3,796.244 5

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

3.3 Site Preparation - 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	0.0799	0.0554	0.5263	1.4800e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		147.0445	147.0445	4.7400e-003		147.1631
Total	0.0799	0.0554	0.5263	1.4800e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		147.0445	147.0445	4.7400e-003		147.1631

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	8.1298	2.3904	10.5202	4.4688	2.1991	6.6679	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

3.3 Site Preparation - 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	0.0799	0.0554	0.5263	1.4800e-003	0.1363	1.0500e-003	0.1374	0.0364	9.7000e-004	0.0374		147.0445	147.0445	4.7400e-003		147.1631
Total	0.0799	0.0554	0.5263	1.4800e-003	0.1363	1.0500e-003	0.1374	0.0364	9.7000e-004	0.0374		147.0445	147.0445	4.7400e-003		147.1631

3.4 Grading - 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					
Fugitive Dust					8.2603	0.0000	8.2603	3.4252	0.0000	3.4252			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	8.2603	2.3827	10.6430	3.4252	2.1920	5.6173		6,140.0195	6,140.0195	1.9426		6,188.5854

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3.4 Grading - 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	0.0888	0.0616	0.5848	1.6400e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		163.3828	163.3828	5.2700e-003		163.5146
Total	0.0888	0.0616	0.5848	1.6400e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		163.3828	163.3828	5.2700e-003		163.5146

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					3.7171	0.0000	3.7171	1.5414	0.0000	1.5414			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	3.7171	2.3827	6.0998	1.5414	2.1920	3.7334	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

3.4 Grading - 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	0.0888	0.0616	0.5848	1.6400e-003	0.1514	1.1700e-003	0.1526	0.0404	1.0800e-003	0.0415		163.3828	163.3828	5.2700e-003		163.5146
Total	0.0888	0.0616	0.5848	1.6400e-003	0.1514	1.1700e-003	0.1526	0.0404	1.0800e-003	0.0415		163.3828	163.3828	5.2700e-003		163.5146

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

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	1.5746	40.7008	11.6408	0.0883	2.2205	0.2879	2.5084	0.6392	0.2754	0.9146		9,462.808 3	9,462.808 3	0.7975		9,482.744 5
Worker	6.5102	4.5116	42.8649	0.1202	12.0428	0.0858	12.1287	3.1943	0.0791	3.2734		11,975.955 6	11,975.955 6	0.3864		11,985.616 2
Total	8.0848	45.2124	54.5057	0.2085	14.2633	0.3738	14.6371	3.8335	0.3545	4.1881		21,438.76 39	21,438.76 39	1.1839		21,468.36 07

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

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	1.5746	40.7008	11.6408	0.0883	2.0780	0.2879	2.3659	0.6042	0.2754	0.8797		9,462.808 3	9,462.808 3	0.7975		9,482.744 5
Worker	6.5102	4.5116	42.8649	0.1202	11.1009	0.0858	11.1867	2.9631	0.0791	3.0422		11,975.955 6	11,975.955 6	0.3864		11,985.616 2
Total	8.0848	45.2124	54.5057	0.2085	13.1789	0.3738	13.5526	3.5673	0.3545	3.9219		21,438.76 39	21,438.76 39	1.1839		21,468.36 07

3.6 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	108.9781					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	109.2446	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

3.6 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	1.3012	0.9017	8.5671	0.0240	2.4069	0.0172	2.4241	0.6384	0.0158	0.6542		2,393.557 3	2,393.557 3	0.0772		2,395.488 1
Total	1.3012	0.9017	8.5671	0.0240	2.4069	0.0172	2.4241	0.6384	0.0158	0.6542		2,393.557 3	2,393.557 3	0.0772		2,395.488 1

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	108.9781					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	109.2446	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

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

3.6 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	1.3012	0.9017	8.5671	0.0240	2.2187	0.0172	2.2358	0.5922	0.0158	0.6080		2,393.557 3	2,393.557 3	0.0772		2,395.488 1
Total	1.3012	0.9017	8.5671	0.0240	2.2187	0.0172	2.2358	0.5922	0.0158	0.6080		2,393.557 3	2,393.557 3	0.0772		2,395.488 1

3.7 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8
Paving	1.4429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.8973	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.002 5	2,257.002 5	0.7141		2,274.854 8

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

3.7 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	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359
Total	0.0666	0.0462	0.4386	1.2300e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		122.5371	122.5371	3.9500e-003		122.6359

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.4429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.8973	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

3.7 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	0.0666	0.0462	0.4386	1.2300e-003	0.1136	8.8000e-004	0.1145	0.0303	8.1000e-004	0.0311		122.5371	122.5371	3.9500e-003		122.6359
Total	0.0666	0.0462	0.4386	1.2300e-003	0.1136	8.8000e-004	0.1145	0.0303	8.1000e-004	0.0311		122.5371	122.5371	3.9500e-003		122.6359

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	17.7761	83.4332	200.6761	0.8277	99.7712	0.4349	100.2060	26.6555	0.4041	27.0596		85,130.48 63	85,130.48 63	4.3043		85,238.09 48
Unmitigated	17.7761	83.4332	200.6761	0.8277	99.7712	0.4349	100.2060	26.6555	0.4041	27.0596		85,130.48 63	85,130.48 63	4.3043		85,238.09 48

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	6,262.20	7,425.18	5442.15	18,020,362	18,020,362
General Light Industry	2,082.08	394.31	203.13	4,591,070	4,591,070
General Office Building	1,859.22	414.66	176.99	3,375,604	3,375,604
Other Asphalt Surfaces	0.00	0.00	0.00		
Strip Mall	9,965.80	9,453.11	4593.89	14,053,017	14,053,017
Total	20,169.29	17,687.26	10,416.16	40,040,053	40,040,053

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 High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

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	0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.9694
NaturalGas Unmitigated	0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.9694

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

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 High Rise	30345.9	0.3273	2.7966	1.1900	0.0179		0.2261	0.2261		0.2261	0.2261		3,570.1052	3,570.1052	0.0684	0.0655	3,591.3205
General Light Industry	9460.77	0.1020	0.9275	0.7791	5.5700e-003		0.0705	0.0705		0.0705	0.0705		1,113.0315	1,113.0315	0.0213	0.0204	1,119.6456
General Office Building	9323.63	0.1006	0.9141	0.7678	5.4800e-003		0.0695	0.0695		0.0695	0.0695		1,096.8978	1,096.8978	0.0210	0.0201	1,103.4161
Other 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
Strip Mall	1373.83	0.0148	0.1347	0.1131	8.1000e-004		0.0102	0.0102		0.0102	0.0102		161.6267	161.6267	3.1000e-003	2.9600e-003	162.5871
Total		0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.9694

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	30.3459	0.3273	2.7966	1.1900	0.0179		0.2261	0.2261		0.2261	0.2261		3,570.1052	3,570.1052	0.0684	0.0655	3,591.3205
General Light Industry	9.46077	0.1020	0.9275	0.7791	5.5700e-003		0.0705	0.0705		0.0705	0.0705		1,113.0315	1,113.0315	0.0213	0.0204	1,119.6456
General Office Building	9.32363	0.1006	0.9141	0.7678	5.4800e-003		0.0695	0.0695		0.0695	0.0695		1,096.8978	1,096.8978	0.0210	0.0201	1,103.4161
Other 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
Strip Mall	1.37383	0.0148	0.1347	0.1131	8.1000e-004		0.0102	0.0102		0.0102	0.0102		161.6267	161.6267	3.1000e-003	2.9600e-003	162.5871
Total		0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.9694

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	2,349.5674	45.9761	2,939.3056	5.1095		395.6047	395.6047		395.6047	395.6047	41,407.6505	17,587.4094	58,995.0599	38.4236	3.2570	60,926.2439
Unmitigated	2,349.5674	45.9761	2,939.3056	5.1095		395.6047	395.6047		395.6047	395.6047	41,407.6505	17,587.4094	58,995.0599	38.4236	3.2570	60,926.2439

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	17.2388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.8382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,281.8189	44.5613	2,816.6576	5.1030		394.9222	394.9222		394.9222	394.9222	41,407.6505	17,365.7647	58,773.4152	38.2124	3.2570	60,699.3182
Landscaping	3.6715	1.4148	122.6481	6.5000e-003		0.6824	0.6824		0.6824	0.6824		221.6446	221.6446	0.2112		226.9257
Total	2,349.5674	45.9761	2,939.3056	5.1095		395.6046	395.6046		395.6046	395.6046	41,407.6505	17,587.4094	58,995.0599	38.4236	3.2570	60,926.2439

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

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	17.2388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.8382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,281.8189	44.5613	2,816.6576	5.1030		394.9222	394.9222		394.9222	394.9222	41,407.6505	17,365.7647	58,773.4152	38.2124	3.2570	60,699.3182
Landscaping	3.6715	1.4148	122.6481	6.5000e-003		0.6824	0.6824		0.6824	0.6824		221.6446	221.6446	0.2112		226.9257
Total	2,349.5674	45.9761	2,939.3056	5.1095		395.6046	395.6046		395.6046	395.6046	41,407.6505	17,587.4094	58,995.0599	38.4236	3.2570	60,926.2439

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Winter

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

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

9051 Morena Construction - 25% of all uses in 1 year
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	168.56	1000sqft	10.60	168,555.00	0
General Light Industry	298.72	1000sqft	12.95	298,718.00	0
Other Asphalt Surfaces	7.71	Acre	7.71	336,065.40	0
Apartments High Rise	1,491.00	Dwelling Unit	4.53	1,491,000.00	4264
Strip Mall	224.86	1000sqft	16.61	224,864.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

Project Characteristics -

Land Use - 25% of all proposed multi-family, commercial, and industrial land uses, and roads

Construction Phase - Architectural coatings simultaneous with half building construction and paving

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Placeworks CalEEMod Assumptions

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips -

Woodstoves -

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - CLean paved roads

Area Mitigation - Placeworks CalEEMod Assumptions

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	70.00	13.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	110.00	21.00
tblConstructionPhase	NumDays	1,110.00	206.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	NumDays	75.00	14.00
tblLandUse	LandUseSquareFeet	168,560.00	168,555.00
tblLandUse	LandUseSquareFeet	298,720.00	298,718.00
tblLandUse	LandUseSquareFeet	335,847.60	336,065.40
tblLandUse	LandUseSquareFeet	224,860.00	224,864.00
tblLandUse	LotAcreage	3.87	10.60
tblLandUse	LotAcreage	6.86	12.95
tblLandUse	LotAcreage	24.05	4.53
tblLandUse	LotAcreage	5.16	16.61

2.0 Emissions Summary

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

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					
2019	120.0221	91.0045	83.9299	0.2741	43.9189	2.5373	46.0589	10.6083	2.3447	12.9530	0.0000	27,889.18 54	27,889.18 54	2.5109	0.0000	27,936.52 30
Maximum	120.0221	91.0045	83.9299	0.2741	43.9189	2.5373	46.0589	10.6083	2.3447	12.9530	0.0000	27,889.18 54	27,889.18 54	2.5109	0.0000	27,936.52 30

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					
2019	120.0221	91.0045	83.9299	0.2741	22.4302	2.5373	24.5702	5.0974	2.3447	7.4421	0.0000	27,889.18 54	27,889.18 54	2.5109	0.0000	27,936.52 30
Maximum	120.0221	91.0045	83.9299	0.2741	22.4302	2.5373	24.5702	5.0974	2.3447	7.4421	0.0000	27,889.18 54	27,889.18 54	2.5109	0.0000	27,936.52 30

	ROG	NOx	CO	SO2	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	48.93	0.00	46.65	51.95	0.00	42.55	0.00	0.00	0.00	0.00	0.00	0.00

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

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	2,349.567 4	45.9761	2,939.305 6	5.1095		395.6047	395.6047		395.6047	395.6047	41,407.65 05	17,587.40 94	58,995.05 99	38.4236	3.2570	60,926.24 39
Energy	0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.969 4
Mobile	18.3722	82.3953	202.6643	0.8715	99.7712	0.4335	100.2047	26.6555	0.4028	27.0583		89,584.51 38	89,584.51 38	4.2570		89,690.93 90
Total	2,368.484 3	133.1443	3,144.820 1	6.0107	99.7712	396.4145	496.1856	26.6555	396.3838	423.0393	41,407.65 05	113,113.5 843	154,521.2 348	42.7945	3.3660	156,594.1 523

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	2,349.567 4	45.9761	2,939.305 6	5.1095		395.6047	395.6047		395.6047	395.6047	41,407.65 05	17,587.40 94	58,995.05 99	38.4236	3.2570	60,926.24 39
Energy	0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.969 4
Mobile	18.3722	82.3953	202.6643	0.8715	99.7712	0.4335	100.2047	26.6555	0.4028	27.0583		89,584.51 38	89,584.51 38	4.2570		89,690.93 90
Total	2,368.484 3	133.1443	3,144.820 1	6.0107	99.7712	396.4145	496.1856	26.6555	396.3838	423.0393	41,407.65 05	113,113.5 843	154,521.2 348	42.7945	3.3660	156,594.1 523

9051 Morena Construction - 25% of all uses in 1 year - San Diego 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
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	1/1/2019	1/17/2019	5	13	
2	Site Preparation	Site Preparation	1/18/2019	1/28/2019	5	7	
3	Grading	Grading	1/29/2019	2/26/2019	5	21	
4	Building Construction	Building Construction	2/27/2019	12/11/2019	5	206	
5	Architectural Coating	Architectural Coating	1/1/2019	12/31/2019	5	261	
6	Paving	Paving	12/12/2019	12/31/2019	5	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 7.71

Residential Indoor: 3,019,275; Residential Outdoor: 1,006,425; Non-Residential Indoor: 1,038,206; Non-Residential Outdoor: 346,069; Striped Parking Area: 20,164 (Architectural Coating – sqft)

OffRoad Equipment

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

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	6	15.00	0.00	2,274.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,466.00	328.00	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	293.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					
Fugitive Dust					38.3322	0.0000	38.3322	5.8049	0.0000	5.8049			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	38.3322	1.7949	40.1271	5.8049	1.6697	7.4745		3,816.8994	3,816.8994	1.0618		3,843.4451

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.2 Demolition - 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	1.5184	52.5421	11.3419	0.1388	3.0566	0.1983	3.2549	0.8377	0.1897	1.0274		15,139.1150	15,139.1150	1.3397		15,172.6086
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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
Total	1.5773	52.5832	11.8061	0.1401	3.1798	0.1992	3.3790	0.8704	0.1905	1.0609		15,269.6450	15,269.6450	1.3439		15,303.2427

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					17.2495	0.0000	17.2495	2.6122	0.0000	2.6122			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	17.2495	1.7949	19.0444	2.6122	1.6697	4.2819	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.2 Demolition - 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	1.5184	52.5421	11.3419	0.1388	2.8485	0.1983	3.0468	0.7866	0.1897	0.9763		15,139.1150	15,139.1150	1.3397		15,172.6086
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	0.0589	0.0411	0.4641	1.3100e-003	0.1136	8.8000e-004	0.1145	0.0303	8.1000e-004	0.0311		130.5300	130.5300	4.1700e-003		130.6342
Total	1.5773	52.5832	11.8061	0.1401	2.9620	0.1992	3.1612	0.8169	0.1905	1.0074		15,269.6450	15,269.6450	1.3439		15,303.2427

3.3 Site Preparation - 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					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.3 Site Preparation - 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	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1479	1.0500e-003	0.1489	0.0392	9.7000e-004	0.0402		156.6359	156.6359	5.0000e-003		156.7610

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	8.1298	2.3904	10.5202	4.4688	2.1991	6.6679	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.3 Site Preparation - 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	0.0707	0.0493	0.5569	1.5700e-003	0.1363	1.0500e-003	0.1374	0.0364	9.7000e-004	0.0374		156.6359	156.6359	5.0000e-003		156.7610
Total	0.0707	0.0493	0.5569	1.5700e-003	0.1363	1.0500e-003	0.1374	0.0364	9.7000e-004	0.0374		156.6359	156.6359	5.0000e-003		156.7610

3.4 Grading - 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					
Fugitive Dust					8.2603	0.0000	8.2603	3.4252	0.0000	3.4252			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	8.2603	2.3827	10.6430	3.4252	2.1920	5.6173		6,140.0195	6,140.0195	1.9426		6,188.5854

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.4 Grading - 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	0.0785	0.0548	0.6188	1.7500e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		174.0399	174.0399	5.5600e-003		174.1789
Total	0.0785	0.0548	0.6188	1.7500e-003	0.1643	1.1700e-003	0.1655	0.0436	1.0800e-003	0.0447		174.0399	174.0399	5.5600e-003		174.1789

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					3.7171	0.0000	3.7171	1.5414	0.0000	1.5414			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	4.7389	54.5202	33.3768	0.0620	3.7171	2.3827	6.0998	1.5414	2.1920	3.7334	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.4 Grading - 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	0.0785	0.0548	0.6188	1.7500e-003	0.1514	1.1700e-003	0.1526	0.0404	1.0800e-003	0.0415		174.0399	174.0399	5.5600e-003		174.1789
Total	0.0785	0.0548	0.6188	1.7500e-003	0.1514	1.1700e-003	0.1526	0.0404	1.0800e-003	0.0415		174.0399	174.0399	5.5600e-003		174.1789

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

9051 Morena Construction - 25% of all uses in 1 year - San Diego 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	1.5097	40.6679	10.4992	0.0906	2.2205	0.2829	2.5034	0.6392	0.2707	0.9099		9,709.3456	9,709.3456	0.7496		9,728.0860
Worker	5.7562	4.0172	45.3598	0.1281	12.0428	0.0858	12.1287	3.1943	0.0791	3.2734		12,757.1267	12,757.1267	0.4074		12,767.3108
Total	7.2659	44.6851	55.8590	0.2186	14.2633	0.3688	14.6321	3.8335	0.3498	4.1833		22,466.4722	22,466.4722	1.1570		22,495.3968

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

9051 Morena Construction - 25% of all uses in 1 year - San Diego 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	1.5097	40.6679	10.4992	0.0906	2.0780	0.2829	2.3609	0.6042	0.2707	0.8749		9,709.3456	9,709.3456	0.7496		9,728.0860
Worker	5.7562	4.0172	45.3598	0.1281	11.1009	0.0858	11.1867	2.9631	0.0791	3.0422		12,757.1267	12,757.1267	0.4074		12,767.3108
Total	7.2659	44.6851	55.8590	0.2186	13.1789	0.3688	13.5476	3.5673	0.3498	3.9171		22,466.4722	22,466.4722	1.1570		22,495.3968

3.6 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	108.9781					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	109.2446	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.6 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	1.1505	0.8029	9.0658	0.0256	2.4069	0.0172	2.4241	0.6384	0.0158	0.6542		2,549.6849	2,549.6849	0.0814		2,551.7204
Total	1.1505	0.8029	9.0658	0.0256	2.4069	0.0172	2.4241	0.6384	0.0158	0.6542		2,549.6849	2,549.6849	0.0814		2,551.7204

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	108.9781					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	109.2446	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

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.6 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	1.1505	0.8029	9.0658	0.0256	2.2187	0.0172	2.2358	0.5922	0.0158	0.6080		2,549.6849	2,549.6849	0.0814		2,551.7204
Total	1.1505	0.8029	9.0658	0.0256	2.2187	0.0172	2.2358	0.5922	0.0158	0.6080		2,549.6849	2,549.6849	0.0814		2,551.7204

3.7 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.4429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.8973	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.7 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	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342
Total	0.0589	0.0411	0.4641	1.3100e-003	0.1232	8.8000e-004	0.1241	0.0327	8.1000e-004	0.0335		130.5300	130.5300	4.1700e-003		130.6342

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.4429					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.8973	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

3.7 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	0.0589	0.0411	0.4641	1.3100e-003	0.1136	8.8000e-004	0.1145	0.0303	8.1000e-004	0.0311		130.5300	130.5300	4.1700e-003		130.6342
Total	0.0589	0.0411	0.4641	1.3100e-003	0.1136	8.8000e-004	0.1145	0.0303	8.1000e-004	0.0311		130.5300	130.5300	4.1700e-003		130.6342

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Construction - 25% of all uses in 1 year - San Diego 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	18.3722	82.3953	202.6643	0.8715	99.7712	0.4335	100.2047	26.6555	0.4028	27.0583		89,584.5138	89,584.5138	4.2570		89,690.9390
Unmitigated	18.3722	82.3953	202.6643	0.8715	99.7712	0.4335	100.2047	26.6555	0.4028	27.0583		89,584.5138	89,584.5138	4.2570		89,690.9390

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	6,262.20	7,425.18	5442.15	18,020,362	18,020,362
General Light Industry	2,082.08	394.31	203.13	4,591,070	4,591,070
General Office Building	1,859.22	414.66	176.99	3,375,604	3,375,604
Other Asphalt Surfaces	0.00	0.00	0.00		
Strip Mall	9,965.80	9,453.11	4593.89	14,053,017	14,053,017
Total	20,169.29	17,687.26	10,416.16	40,040,053	40,040,053

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 High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

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	0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.9694
NaturalGas Unmitigated	0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.9694

9051 Morena Construction - 25% of all uses in 1 year - San Diego 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					
Apartments High Rise	30345.9	0.3273	2.7966	1.1900	0.0179		0.2261	0.2261		0.2261	0.2261		3,570.1052	3,570.1052	0.0684	0.0655	3,591.3205
General Light Industry	9460.77	0.1020	0.9275	0.7791	5.5700e-003		0.0705	0.0705		0.0705	0.0705		1,113.0315	1,113.0315	0.0213	0.0204	1,119.6456
General Office Building	9323.63	0.1006	0.9141	0.7678	5.4800e-003		0.0695	0.0695		0.0695	0.0695		1,096.8978	1,096.8978	0.0210	0.0201	1,103.4161
Other 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
Strip Mall	1373.83	0.0148	0.1347	0.1131	8.1000e-004		0.0102	0.0102		0.0102	0.0102		161.6267	161.6267	3.1000e-003	2.9600e-003	162.5871
Total		0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.9694

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	30.3459	0.3273	2.7966	1.1900	0.0179		0.2261	0.2261		0.2261	0.2261		3,570.1052	3,570.1052	0.0684	0.0655	3,591.3205
General Light Industry	9.46077	0.1020	0.9275	0.7791	5.5700e-003		0.0705	0.0705		0.0705	0.0705		1,113.0315	1,113.0315	0.0213	0.0204	1,119.6456
General Office Building	9.32363	0.1006	0.9141	0.7678	5.4800e-003		0.0695	0.0695		0.0695	0.0695		1,096.8978	1,096.8978	0.0210	0.0201	1,103.4161
Other 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
Strip Mall	1.37383	0.0148	0.1347	0.1131	8.1000e-004		0.0102	0.0102		0.0102	0.0102		161.6267	161.6267	3.1000e-003	2.9600e-003	162.5871
Total		0.5447	4.7729	2.8501	0.0297		0.3763	0.3763		0.3763	0.3763		5,941.6611	5,941.6611	0.1139	0.1089	5,976.9694

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

9051 Morena Construction - 25% of all uses in 1 year - San Diego 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	2,349.567 4	45.9761	2,939.305 6	5.1095		395.6047	395.6047		395.6047	395.6047	41,407.65 05	17,587.40 94	58,995.05 99	38.4236	3.2570	60,926.24 39
Unmitigated	2,349.567 4	45.9761	2,939.305 6	5.1095		395.6047	395.6047		395.6047	395.6047	41,407.65 05	17,587.40 94	58,995.05 99	38.4236	3.2570	60,926.24 39

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	17.2388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.8382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,281.818 9	44.5613	2,816.657 6	5.1030		394.9222	394.9222		394.9222	394.9222	41,407.65 05	17,365.76 47	58,773.41 52	38.2124	3.2570	60,699.31 82
Landscaping	3.6715	1.4148	122.6481	6.5000e-003		0.6824	0.6824		0.6824	0.6824		221.6446	221.6446	0.2112		226.9257
Total	2,349.567 4	45.9761	2,939.305 6	5.1095		395.6046	395.6046		395.6046	395.6046	41,407.65 05	17,587.40 94	58,995.05 99	38.4236	3.2570	60,926.24 39

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

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	17.2388					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.8382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,281.8189	44.5613	2,816.6576	5.1030		394.9222	394.9222		394.9222	394.9222	41,407.6505	17,365.7647	58,773.4152	38.2124	3.2570	60,699.3182
Landscaping	3.6715	1.4148	122.6481	6.5000e-003		0.6824	0.6824		0.6824	0.6824		221.6446	221.6446	0.2112		226.9257
Total	2,349.5674	45.9761	2,939.3056	5.1095		395.6046	395.6046		395.6046	395.6046	41,407.6505	17,587.4094	58,995.0599	38.4236	3.2570	60,926.2439

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Summer

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

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

9051 Morena Construction - 25% of all uses in 1 year
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	168.56	1000sqft	10.60	168,555.00	0
General Light Industry	298.72	1000sqft	12.95	298,718.00	0
Other Asphalt Surfaces	7.71	Acre	7.71	336,065.40	0
Apartments High Rise	1,491.00	Dwelling Unit	4.53	1,491,000.00	4264
Strip Mall	224.86	1000sqft	16.61	224,864.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

Project Characteristics -

Land Use - 25% of all proposed multi-family, commercial, and industrial land uses, and roads

Construction Phase - Architectural coatings simultaneous with half building construction and paving

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition -

Grading - Placeworks CalEEMod Assumptions

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips -

Woodstoves -

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - CLean paved roads

Area Mitigation - Placeworks CalEEMod Assumptions

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	70.00	13.00
tblConstructionPhase	NumDays	40.00	7.00
tblConstructionPhase	NumDays	110.00	21.00
tblConstructionPhase	NumDays	1,110.00	206.00
tblConstructionPhase	NumDays	75.00	261.00
tblConstructionPhase	NumDays	75.00	14.00
tblLandUse	LandUseSquareFeet	168,560.00	168,555.00
tblLandUse	LandUseSquareFeet	298,720.00	298,718.00
tblLandUse	LandUseSquareFeet	335,847.60	336,065.40
tblLandUse	LandUseSquareFeet	224,860.00	224,864.00
tblLandUse	LotAcreage	3.87	10.60
tblLandUse	LotAcreage	6.86	12.95
tblLandUse	LotAcreage	24.05	4.53
tblLandUse	LotAcreage	5.16	16.61

2.0 Emissions Summary

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

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					
2019	15.5238	8.6447	9.4479	0.0302	2.1641	0.2423	2.4064	0.5828	0.2282	0.8110	0.0000	2,788.9416	2,788.9416	0.2206	0.0000	2,794.4567
Maximum	15.5238	8.6447	9.4479	0.0302	2.1641	0.2423	2.4064	0.5828	0.2282	0.8110	0.0000	2,788.9416	2,788.9416	0.2206	0.0000	2,794.4567

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					
2019	15.5238	8.6447	9.4479	0.0302	1.8105	0.2423	2.0527	0.4902	0.2282	0.7184	0.0000	2,788.9411	2,788.9411	0.2206	0.0000	2,794.4563
Maximum	15.5238	8.6447	9.4479	0.0302	1.8105	0.2423	2.0527	0.4902	0.2282	0.7184	0.0000	2,788.9411	2,788.9411	0.2206	0.0000	2,794.4563

	ROG	NOx	CO	SO2	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	16.34	0.00	14.70	15.89	0.00	11.42	0.00	0.00	0.00	0.00	0.00	0.00

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2019	3-31-2019	5.9286	5.9286
2	4-1-2019	6-30-2019	6.1238	6.1238
3	7-1-2019	9-30-2019	6.1911	6.1911
		Highest	6.1911	6.1911

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	105.5791	1.9544	126.5213	0.2098		16.2532	16.2532		16.2532	16.2532	1,540.139 9	664.0088	2,204.148 7	1.4385	0.1211	2,276.213 0
Energy	0.0994	0.8711	0.5202	5.4200e- 003		0.0687	0.0687		0.0687	0.0687	0.0000	5,409.800 1	5,409.800 1	0.1970	0.0549	5,431.083 6
Mobile	2.7113	13.1045	30.7864	0.1296	15.0836	0.0673	15.1509	4.0377	0.0625	4.1002	0.0000	12,098.39 10	12,098.39 10	0.5991	0.0000	12,113.367 1
Waste						0.0000	0.0000		0.0000	0.0000	294.1603	0.0000	294.1603	17.3844	0.0000	728.7697
Water						0.0000	0.0000		0.0000	0.0000	67.5238	1,231.807 3	1,299.3311	6.9849	0.1740	1,525.8111
Total	108.3897	15.9299	157.8279	0.3449	15.0836	16.3892	31.4728	4.0377	16.3844	20.4221	1,901.824 0	19,404.00 71	21,305.83 11	26.6039	0.3501	22,075.24 45

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

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	105.5791	1.9544	126.5213	0.2098		16.2532	16.2532		16.2532	16.2532	1,540.139 9	664.0088	2,204.148 7	1.4385	0.1211	2,276.213 0
Energy	0.0994	0.8711	0.5202	5.4200e- 003		0.0687	0.0687		0.0687	0.0687	0.0000	5,409.800 1	5,409.800 1	0.1970	0.0549	5,431.083 6
Mobile	2.7113	13.1045	30.7864	0.1296	15.0836	0.0673	15.1509	4.0377	0.0625	4.1002	0.0000	12,098.39 10	12,098.39 10	0.5991	0.0000	12,113.367 1
Waste						0.0000	0.0000		0.0000	0.0000	294.1603	0.0000	294.1603	17.3844	0.0000	728.7697
Water						0.0000	0.0000		0.0000	0.0000	67.5238	1,231.807 3	1,299.3311	6.9849	0.1740	1,525.8111
Total	108.3897	15.9299	157.8279	0.3449	15.0836	16.3892	31.4728	4.0377	16.3844	20.4221	1,901.824 0	19,404.00 71	21,305.83 11	26.6039	0.3501	22,075.24 45

	ROG	NOx	CO	SO2	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**

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2019	1/17/2019	5	13	
2	Site Preparation	Site Preparation	1/18/2019	1/28/2019	5	7	
3	Grading	Grading	1/29/2019	2/26/2019	5	21	
4	Building Construction	Building Construction	2/27/2019	12/11/2019	5	206	
5	Architectural Coating	Architectural Coating	1/1/2019	12/31/2019	5	261	
6	Paving	Paving	12/12/2019	12/31/2019	5	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 7.71

Residential Indoor: 3,019,275; Residential Outdoor: 1,006,425; Non-Residential Indoor: 1,038,206; Non-Residential Outdoor: 346,069; Striped Parking Area: 20,164 (Architectural Coating – sqft)

OffRoad Equipment

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

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	6	15.00	0.00	2,274.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,466.00	328.00	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	293.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					0.2492	0.0000	0.2492	0.0377	0.0000	0.0377	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2326	0.1434	2.5000e-004		0.0117	0.0117		0.0109	0.0109	0.0000	22.5071	22.5071	6.2600e-003	0.0000	22.6637
Total	0.0228	0.2326	0.1434	2.5000e-004	0.2492	0.0117	0.2608	0.0377	0.0109	0.0486	0.0000	22.5071	22.5071	6.2600e-003	0.0000	22.6637

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	9.9900e-003	0.3484	0.0760	9.0000e-004	0.0195	1.3000e-003	0.0208	5.3400e-003	1.2500e-003	6.5900e-003	0.0000	88.6399	88.6399	8.0300e-003	0.0000	88.8405
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	3.8000e-004	2.9000e-004	2.8500e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7298	0.7298	2.0000e-005	0.0000	0.7304
Total	0.0104	0.3487	0.0789	9.1000e-004	0.0202	1.3100e-003	0.0216	5.5500e-003	1.2600e-003	6.8000e-003	0.0000	89.3697	89.3697	8.0500e-003	0.0000	89.5709

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					0.1121	0.0000	0.1121	0.0170	0.0000	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0228	0.2326	0.1434	2.5000e-004		0.0117	0.0117		0.0109	0.0109	0.0000	22.5071	22.5071	6.2600e-003	0.0000	22.6636
Total	0.0228	0.2326	0.1434	2.5000e-004	0.1121	0.0117	0.1238	0.0170	0.0109	0.0278	0.0000	22.5071	22.5071	6.2600e-003	0.0000	22.6636

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

3.2 Demolition - 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	tons/yr										MT/yr					
Hauling	9.9900e-003	0.3484	0.0760	9.0000e-004	0.0181	1.3000e-003	0.0194	5.0200e-003	1.2500e-003	6.2700e-003	0.0000	88.6399	88.6399	8.0300e-003	0.0000	88.8405
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	3.8000e-004	2.9000e-004	2.8500e-003	1.0000e-005	7.2000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.7298	0.7298	2.0000e-005	0.0000	0.7304
Total	0.0104	0.3487	0.0789	9.1000e-004	0.0189	1.3100e-003	0.0202	5.2100e-003	1.2600e-003	6.4700e-003	0.0000	89.3697	89.3697	8.0500e-003	0.0000	89.5709

3.3 Site Preparation - 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	tons/yr										MT/yr					
Fugitive Dust					0.0632	0.0000	0.0632	0.0348	0.0000	0.0348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.1595	0.0772	1.3000e-004		8.3700e-003	8.3700e-003		7.7000e-003	7.7000e-003	0.0000	11.9590	11.9590	3.7800e-003	0.0000	12.0536
Total	0.0152	0.1595	0.0772	1.3000e-004	0.0632	8.3700e-003	0.0716	0.0348	7.7000e-003	0.0425	0.0000	11.9590	11.9590	3.7800e-003	0.0000	12.0536

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

3.3 Site Preparation - 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	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	2.5000e-004	1.9000e-004	1.8400e-003	1.0000e-005	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4716	0.4716	2.0000e-005	0.0000	0.4719
Total	2.5000e-004	1.9000e-004	1.8400e-003	1.0000e-005	5.1000e-004	0.0000	5.1000e-004	1.3000e-004	0.0000	1.4000e-004	0.0000	0.4716	0.4716	2.0000e-005	0.0000	0.4719

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					0.0285	0.0000	0.0285	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.1595	0.0772	1.3000e-004		8.3700e-003	8.3700e-003		7.7000e-003	7.7000e-003	0.0000	11.9590	11.9590	3.7800e-003	0.0000	12.0536
Total	0.0152	0.1595	0.0772	1.3000e-004	0.0285	8.3700e-003	0.0368	0.0156	7.7000e-003	0.0233	0.0000	11.9590	11.9590	3.7800e-003	0.0000	12.0536

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3.3 Site Preparation - 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	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	2.5000e-004	1.9000e-004	1.8400e-003	1.0000e-005	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.4716	0.4716	2.0000e-005	0.0000	0.4719
Total	2.5000e-004	1.9000e-004	1.8400e-003	1.0000e-005	4.7000e-004	0.0000	4.7000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.4716	0.4716	2.0000e-005	0.0000	0.4719

3.4 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					0.0867	0.0000	0.0867	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5725	0.3505	6.5000e-004		0.0250	0.0250		0.0230	0.0230	0.0000	58.4864	58.4864	0.0185	0.0000	58.9490
Total	0.0498	0.5725	0.3505	6.5000e-004	0.0867	0.0250	0.1118	0.0360	0.0230	0.0590	0.0000	58.4864	58.4864	0.0185	0.0000	58.9490

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3.4 Grading - 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	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	8.3000e-004	6.4000e-004	6.1400e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5718	1.5718	5.0000e-005	0.0000	1.5731
Total	8.3000e-004	6.4000e-004	6.1400e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.7000e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5718	1.5718	5.0000e-005	0.0000	1.5731

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					0.0390	0.0000	0.0390	0.0162	0.0000	0.0162	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5725	0.3505	6.5000e-004		0.0250	0.0250		0.0230	0.0230	0.0000	58.4863	58.4863	0.0185	0.0000	58.9489
Total	0.0498	0.5725	0.3505	6.5000e-004	0.0390	0.0250	0.0641	0.0162	0.0230	0.0392	0.0000	58.4863	58.4863	0.0185	0.0000	58.9489

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3.4 Grading - 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	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	8.3000e-004	6.4000e-004	6.1400e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.5718	1.5718	5.0000e-005	0.0000	1.5731
Total	8.3000e-004	6.4000e-004	6.1400e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.5718	1.5718	5.0000e-005	0.0000	1.5731

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	tons/yr										MT/yr					
Off-Road	0.2432	2.1711	1.7679	2.7700e-003		0.1329	0.1329		0.1249	0.1249	0.0000	242.1573	242.1573	0.0590	0.0000	243.6321
Total	0.2432	2.1711	1.7679	2.7700e-003		0.1329	0.1329		0.1249	0.1249	0.0000	242.1573	242.1573	0.0590	0.0000	243.6321

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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	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	0.1583	4.2404	1.1392	9.2300e-003	0.2242	0.0294	0.2536	0.0647	0.0281	0.0928	0.0000	897.5664	897.5664	0.0720	0.0000	899.3672
Worker	0.5953	0.4568	4.4181	0.0125	1.2109	8.8400e-003	1.2197	0.3218	8.1500e-003	0.3299	0.0000	1,130.2148	1,130.2148	0.0363	0.0000	1,131.1233
Total	0.7536	4.6972	5.5573	0.0217	1.4351	0.0382	1.4733	0.3865	0.0362	0.4227	0.0000	2,027.7813	2,027.7813	0.1084	0.0000	2,030.4906

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	0.2432	2.1711	1.7679	2.7700e-003		0.1329	0.1329		0.1249	0.1249	0.0000	242.1570	242.1570	0.0590	0.0000	243.6318
Total	0.2432	2.1711	1.7679	2.7700e-003		0.1329	0.1329		0.1249	0.1249	0.0000	242.1570	242.1570	0.0590	0.0000	243.6318

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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	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	0.1583	4.2404	1.1392	9.2300e-003	0.2100	0.0294	0.2393	0.0612	0.0281	0.0893	0.0000	897.5664	897.5664	0.0720	0.0000	899.3672
Worker	0.5953	0.4568	4.4181	0.0125	1.1165	8.8400e-003	1.1254	0.2986	8.1500e-003	0.3068	0.0000	1,130.2148	1,130.2148	0.0363	0.0000	1,131.1233
Total	0.7536	4.6972	5.5573	0.0217	1.3265	0.0382	1.3647	0.3598	0.0362	0.3961	0.0000	2,027.7813	2,027.7813	0.1084	0.0000	2,030.4906

3.6 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	tons/yr										MT/yr					
Archit. Coating	14.2216					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e-003	0.0000	33.3903
Total	14.2564	0.2395	0.2403	3.9000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3200	33.3200	2.8100e-003	0.0000	33.3903

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3.6 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	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	0.1508	0.1157	1.1188	3.1700e-003	0.3066	2.2400e-003	0.3089	0.0815	2.0600e-003	0.0835	0.0000	286.1989	286.1989	9.2000e-003	0.0000	286.4289
Total	0.1508	0.1157	1.1188	3.1700e-003	0.3066	2.2400e-003	0.3089	0.0815	2.0600e-003	0.0835	0.0000	286.1989	286.1989	9.2000e-003	0.0000	286.4289

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	14.2216					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.2395	0.2403	3.9000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3199	33.3199	2.8100e-003	0.0000	33.3903
Total	14.2564	0.2395	0.2403	3.9000e-004		0.0168	0.0168		0.0168	0.0168	0.0000	33.3199	33.3199	2.8100e-003	0.0000	33.3903

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3.6 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	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	0.1508	0.1157	1.1188	3.1700e-003	0.2827	2.2400e-003	0.2850	0.0756	2.0600e-003	0.0777	0.0000	286.1989	286.1989	9.2000e-003	0.0000	286.4289
Total	0.1508	0.1157	1.1188	3.1700e-003	0.2827	2.2400e-003	0.2850	0.0756	2.0600e-003	0.0777	0.0000	286.1989	286.1989	9.2000e-003	0.0000	286.4289

3.7 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	tons/yr										MT/yr					
Off-Road	0.0102	0.1067	0.1027	1.6000e-004		5.7700e-003	5.7700e-003		5.3100e-003	5.3100e-003	0.0000	14.3326	14.3326	4.5300e-003	0.0000	14.4460
Paving	0.0101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0203	0.1067	0.1027	1.6000e-004		5.7700e-003	5.7700e-003		5.3100e-003	5.3100e-003	0.0000	14.3326	14.3326	4.5300e-003	0.0000	14.4460

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3.7 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	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	3.2000e-004	3.0700e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7859	0.7859	3.0000e-005	0.0000	0.7866
Total	4.1000e-004	3.2000e-004	3.0700e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7859	0.7859	3.0000e-005	0.0000	0.7866

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	0.0102	0.1067	0.1027	1.6000e-004		5.7700e-003	5.7700e-003		5.3100e-003	5.3100e-003	0.0000	14.3326	14.3326	4.5300e-003	0.0000	14.4460
Paving	0.0101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0203	0.1067	0.1027	1.6000e-004		5.7700e-003	5.7700e-003		5.3100e-003	5.3100e-003	0.0000	14.3326	14.3326	4.5300e-003	0.0000	14.4460

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3.7 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	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	3.2000e-004	3.0700e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7859	0.7859	3.0000e-005	0.0000	0.7866
Total	4.1000e-004	3.2000e-004	3.0700e-003	1.0000e-005	7.8000e-004	1.0000e-005	7.8000e-004	2.1000e-004	1.0000e-005	2.1000e-004	0.0000	0.7859	0.7859	3.0000e-005	0.0000	0.7866

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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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
Category	tons/yr										MT/yr					
Mitigated	2.7113	13.1045	30.7864	0.1296	15.0836	0.0673	15.1509	4.0377	0.0625	4.1002	0.0000	12,098.39 10	12,098.39 10	0.5991	0.0000	12,113.367 1
Unmitigated	2.7113	13.1045	30.7864	0.1296	15.0836	0.0673	15.1509	4.0377	0.0625	4.1002	0.0000	12,098.39 10	12,098.39 10	0.5991	0.0000	12,113.367 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	6,262.20	7,425.18	5442.15	18,020,362	18,020,362
General Light Industry	2,082.08	394.31	203.13	4,591,070	4,591,070
General Office Building	1,859.22	414.66	176.99	3,375,604	3,375,604
Other Asphalt Surfaces	0.00	0.00	0.00		
Strip Mall	9,965.80	9,453.11	4593.89	14,053,017	14,053,017
Total	20,169.29	17,687.26	10,416.16	40,040,053	40,040,053

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 High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,426.0915	4,426.0915	0.1782	0.0369	4,441.5293
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,426.0915	4,426.0915	0.1782	0.0369	4,441.5293
NaturalGas Mitigated	0.0994	0.8711	0.5202	5.4200e-003		0.0687	0.0687		0.0687	0.0687	0.0000	983.7086	983.7086	0.0189	0.0180	989.5543
NaturalGas Unmitigated	0.0994	0.8711	0.5202	5.4200e-003		0.0687	0.0687		0.0687	0.0687	0.0000	983.7086	983.7086	0.0189	0.0180	989.5543

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	1.10763e+007	0.0597	0.5104	0.2172	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	591.0710	591.0710	0.0113	0.0108	594.5834
General Light Industry	3.45318e+006	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2748	184.2748	3.5300e-003	3.3800e-003	185.3699
General Office Building	3.40313e+006	0.0184	0.1668	0.1401	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.6037	181.6037	3.4800e-003	3.3300e-003	182.6829
Other 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	0.0000
Strip Mall	501447	2.7000e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	26.7591	26.7591	5.1000e-004	4.9000e-004	26.9181
Total		0.0994	0.8711	0.5202	5.4300e-003		0.0687	0.0687		0.0687	0.0687	0.0000	983.7086	983.7086	0.0189	0.0180	989.5543

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	1.10763e+007	0.0597	0.5104	0.2172	3.2600e-003		0.0413	0.0413		0.0413	0.0413	0.0000	591.0710	591.0710	0.0113	0.0108	594.5834
General Light Industry	3.45318e+006	0.0186	0.1693	0.1422	1.0200e-003		0.0129	0.0129		0.0129	0.0129	0.0000	184.2748	184.2748	3.5300e-003	3.3800e-003	185.3699
General Office Building	3.40313e+006	0.0184	0.1668	0.1401	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.6037	181.6037	3.4800e-003	3.3300e-003	182.6829
Other 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	0.0000
Strip Mall	501447	2.7000e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	26.7591	26.7591	5.1000e-004	4.9000e-004	26.9181
Total		0.0994	0.8711	0.5202	5.4300e-003		0.0687	0.0687		0.0687	0.0687	0.0000	983.7086	983.7086	0.0189	0.0180	989.5543

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	5.97135e+006	1,951.4897	0.0786	0.0163	1,958.2963
General Light Industry	2.48235e+006	811.2526	0.0327	6.7600e-003	814.0822
General Office Building	2.26538e+006	740.3458	0.0298	6.1700e-003	742.9280
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	2.82429e+006	923.0033	0.0372	7.6900e-003	926.2227
Total		4,426.0915	0.1782	0.0369	4,441.5293

9051 Morena Construction - 25% of all uses in 1 year - San Diego County, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	5.97135e+006	1,951.4897	0.0786	0.0163	1,958.2963
General Light Industry	2.48235e+006	811.2526	0.0327	6.7600e-003	814.0822
General Office Building	2.26538e+006	740.3458	0.0298	6.1700e-003	742.9280
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	2.82429e+006	923.0033	0.0372	7.6900e-003	926.2227
Total		4,426.0915	0.1782	0.0369	4,441.5293

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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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
Category	tons/yr										MT/yr					
Mitigated	105.5791	1.9544	126.5213	0.2098		16.2532	16.2532		16.2532	16.2532	1,540.139 9	664.0088	2,204.148 7	1.4385	0.1211	2,276.213 0
Unmitigated	105.5791	1.9544	126.5213	0.2098		16.2532	16.2532		16.2532	16.2532	1,540.139 9	664.0088	2,204.148 7	1.4385	0.1211	2,276.213 0

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	3.1461					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.5480					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	93.5546	1.8270	115.4830	0.2092		16.1918	16.1918		16.1918	16.1918	1,540.139 9	645.9122	2,186.052 2	1.4213	0.1211	2,257.685 3
Landscaping	0.3304	0.1273	11.0383	5.9000e-004		0.0614	0.0614		0.0614	0.0614	0.0000	18.0965	18.0965	0.0173	0.0000	18.5277
Total	105.5791	1.9543	126.5213	0.2098		16.2532	16.2532		16.2532	16.2532	1,540.139 9	664.0088	2,204.148 7	1.4385	0.1211	2,276.213 0

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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	3.1461					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.5480					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	93.5546	1.8270	115.4830	0.2092		16.1918	16.1918		16.1918	16.1918	1,540.139 9	645.9122	2,186.052 2	1.4213	0.1211	2,257.685 3
Landscaping	0.3304	0.1273	11.0383	5.9000e-004		0.0614	0.0614		0.0614	0.0614	0.0000	18.0965	18.0965	0.0173	0.0000	18.5277
Total	105.5791	1.9543	126.5213	0.2098		16.2532	16.2532		16.2532	16.2532	1,540.139 9	664.0088	2,204.148 7	1.4385	0.1211	2,276.213 0

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,299.3311	6.9849	0.1740	1,525.8111
Unmitigated	1,299.3311	6.9849	0.1740	1,525.8111

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	97.1447 / 61.2434	666.5718	3.1911	0.0800	770.1993
General Light Industry	69.079 / 0	315.8728	2.2628	0.0556	389.0101
General Office Building	29.9588 / 18.3618	203.6596	0.9840	0.0247	235.6110
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.6559 / 10.2085	113.2269	0.5471	0.0137	130.9907
Total		1,299.3311	6.9849	0.1740	1,525.8111

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	97.1447 / 61.2434	666.5718	3.1911	0.0800	770.1993
General Light Industry	69.079 / 0	315.8728	2.2628	0.0556	389.0101
General Office Building	29.9588 / 18.3618	203.6596	0.9840	0.0247	235.6110
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.6559 / 10.2085	113.2269	0.5471	0.0137	130.9907
Total		1,299.331 1	6.9849	0.1740	1,525.811 1

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	294.1603	17.3844	0.0000	728.7697
Unmitigated	294.1603	17.3844	0.0000	728.7697

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	685.86	139.2234	8.2279	0.0000	344.9200
General Light Industry	370.41	75.1899	4.4436	0.0000	186.2798
General Office Building	156.76	31.8209	1.8806	0.0000	78.8348
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	236.1	47.9262	2.8324	0.0000	118.7351
Total		294.1603	17.3844	0.0000	728.7697

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	685.86	139.2234	8.2279	0.0000	344.9200
General Light Industry	370.41	75.1899	4.4436	0.0000	186.2798
General Office Building	156.76	31.8209	1.8806	0.0000	78.8348
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	236.1	47.9262	2.8324	0.0000	118.7351
Total		294.1603	17.3844	0.0000	728.7697

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
----------------	--------

11.0 Vegetation

Existing Conditions

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San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	581.97	1000sqft	23.20	581,968.00	0
General Light Industry	1,668.52	1000sqft	78.48	1,668,523.00	0
Other Asphalt Surfaces	28.03	Acre	28.03	1,220,987.00	0
City Park	3.01	Acre	3.01	106,722.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	745.00	Dwelling Unit	47.17	745,000.00	1989
Condo/Townhouse	40.00	Dwelling Unit	3.70	40,000.00	107
Single Family Housing	211.00	Dwelling Unit	13.11	379,800.00	563
Strip Mall	408.60	1000sqft	21.99	408,603.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation - Placeworks CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250
tblConstructionPhase	NumDays	4,650.00	1.00
tblFireplaces	NumberGas	409.75	0.00
tblFireplaces	NumberGas	22.00	0.00
tblFireplaces	NumberGas	116.05	116.00
tblFireplaces	NumberNoFireplace	74.50	745.00
tblFireplaces	NumberNoFireplace	4.00	40.00

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tblFireplaces	NumberNoFireplace	21.10	21.00
tblFireplaces	NumberWood	260.75	0.00
tblFireplaces	NumberWood	14.00	0.00
tblFireplaces	NumberWood	73.85	74.00
tblLandUse	LandUseSquareFeet	581,970.00	581,968.00
tblLandUse	LandUseSquareFeet	1,668,520.00	1,668,523.00
tblLandUse	LandUseSquareFeet	1,220,986.80	1,220,987.00
tblLandUse	LandUseSquareFeet	131,115.60	106,722.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	408,600.00	408,603.00
tblLandUse	LotAcreage	13.36	23.20
tblLandUse	LotAcreage	38.30	78.48
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	19.61	47.17
tblLandUse	LotAcreage	2.50	3.70
tblLandUse	LotAcreage	68.51	13.11
tblLandUse	LotAcreage	9.38	21.99
tblLandUse	Population	2,131.00	1,989.00
tblLandUse	Population	114.00	107.00
tblLandUse	Population	603.00	563.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	ST_TR	6.39	43.30
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	7.85

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tblVehicleTrips	ST_TR	1.32	11.07
tblVehicleTrips	ST_TR	2.46	20.76
tblVehicleTrips	ST_TR	20.87	1.73
tblVehicleTrips	ST_TR	8.19	35.11
tblVehicleTrips	ST_TR	9.91	4.78
tblVehicleTrips	ST_TR	42.04	69.69
tblVehicleTrips	SU_TR	5.86	43.30
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	7.85
tblVehicleTrips	SU_TR	0.68	11.07
tblVehicleTrips	SU_TR	1.05	20.76
tblVehicleTrips	SU_TR	26.73	1.73
tblVehicleTrips	SU_TR	5.95	35.11
tblVehicleTrips	SU_TR	8.62	4.78
tblVehicleTrips	SU_TR	20.43	69.69
tblVehicleTrips	WD_TR	6.65	43.30
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	7.85
tblVehicleTrips	WD_TR	6.97	11.07
tblVehicleTrips	WD_TR	11.03	20.76
tblVehicleTrips	WD_TR	32.93	1.73
tblVehicleTrips	WD_TR	8.17	35.11
tblVehicleTrips	WD_TR	9.52	4.78
tblVehicleTrips	WD_TR	44.32	69.69
tblWoodstoves	NumberCatalytic	37.25	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberCatalytic	10.55	0.00

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tblWoodstoves	NumberNoncatalytic	37.25	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	10.55	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

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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					
2018	8.1500e-003	0.0669	0.0593	2.2000e-004	0.0116	1.2200e-003	0.0128	3.1300e-003	1.1500e-003	4.2800e-003	0.0000	20.1492	20.1492	1.4400e-003	0.0000	20.1851
Maximum	8.1500e-003	0.0669	0.0593	2.2000e-004	0.0116	1.2200e-003	0.0128	3.1300e-003	1.1500e-003	4.2800e-003	0.0000	20.1492	20.1492	1.4400e-003	0.0000	20.1851

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					
2018	8.1500e-003	0.0669	0.0593	2.2000e-004	0.0116	1.2200e-003	0.0128	3.1300e-003	1.1500e-003	4.2800e-003	0.0000	20.1492	20.1492	1.4400e-003	0.0000	20.1851
Maximum	8.1500e-003	0.0669	0.0593	2.2000e-004	0.0116	1.2200e-003	0.0128	3.1300e-003	1.1500e-003	4.2800e-003	0.0000	20.1492	20.1492	1.4400e-003	0.0000	20.1851

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-18-2018	7-17-2018	0.0528	0.0528
		Highest	0.0528	0.0528

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	30.8238	0.3137	21.8925	0.0237		2.0176	2.0176		2.0176	2.0176	175.6594	103.4967	279.1561	0.0139	0.0172	284.6205
Energy	0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	10,082.14 48	10,082.14 48	0.3440	0.1133	10,124.50 95
Mobile	34.3285	144.0133	390.2601	1.0880	84.6046	1.3080	85.9125	22.6638	1.2328	23.8966	0.0000	99,942.51 27	99,942.51 27	6.0118	0.0000	100,092.8 066
Waste						0.0000	0.0000		0.0000	0.0000	768.5725	0.0000	768.5725	45.4213	0.0000	1,904.105 9
Water						0.0000	0.0000		0.0000	0.0000	186.0943	1,877.714 7	2,063.809 0	19.1876	0.4677	2,682.885 5
Total	65.4170	146.7000	413.9316	1.1262	84.6046	3.5084	88.1130	22.6638	3.4333	26.0971	1,130.326 2	112,005.8 688	113,136.1 950	70.9785	0.5982	115,088.9 279

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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	33.5607	0.3137	21.8925	0.0237		2.0176	2.0176		2.0176	2.0176	175.6594	103.4967	279.1561	0.0139	0.0172	284.6205
Energy	0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	10,082.1448	10,082.1448	0.3440	0.1133	10,124.5095
Mobile	34.3285	144.0133	390.2601	1.0880	84.6046	1.3080	85.9125	22.6638	1.2328	23.8966	0.0000	99,942.5127	99,942.5127	6.0118	0.0000	100,092.8066
Waste						0.0000	0.0000		0.0000	0.0000	768.5725	0.0000	768.5725	45.4213	0.0000	1,904.1059
Water						0.0000	0.0000		0.0000	0.0000	186.0943	1,877.7147	2,063.8090	19.1876	0.4677	2,682.8855
Total	68.1538	146.7000	413.9316	1.1262	84.6046	3.5084	88.1130	22.6638	3.4333	26.0971	1,130.3262	112,005.8688	113,136.1950	70.9785	0.5982	115,088.9279

	ROG	NOx	CO	SO2	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	-4.18	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	Building Construction	Building Construction	4/18/2018	4/18/2018	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 28.03****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	2,243.00	770.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 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	tons/yr										MT/yr					
Off-Road	1.3400e-003	0.0117	8.7900e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.0000e-004	7.0000e-004	0.0000	1.1888	1.1888	2.9000e-004	0.0000	1.1961
Total	1.3400e-003	0.0117	8.7900e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.0000e-004	7.0000e-004	0.0000	1.1888	1.1888	2.9000e-004	0.0000	1.1961

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	2.0200e-003	0.0514	0.0141	1.1000e-004	2.5600e-003	4.0000e-004	2.9500e-003	7.4000e-004	3.8000e-004	1.1200e-003	0.0000	10.3049	10.3049	8.5000e-004	0.0000	10.3261
Worker	4.7900e-003	3.8000e-003	0.0364	1.0000e-004	8.9900e-003	7.0000e-005	9.0600e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	8.6555	8.6555	3.0000e-004	0.0000	8.6629
Total	6.8100e-003	0.0552	0.0505	2.1000e-004	0.0116	4.7000e-004	0.0120	3.1300e-003	4.4000e-004	3.5700e-003	0.0000	18.9603	18.9603	1.1500e-003	0.0000	18.9890

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3.2 Building Construction - 2018**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	1.3400e-003	0.0117	8.7900e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.0000e-004	7.0000e-004	0.0000	1.1888	1.1888	2.9000e-004	0.0000	1.1961
Total	1.3400e-003	0.0117	8.7900e-003	1.0000e-005		7.5000e-004	7.5000e-004		7.0000e-004	7.0000e-004	0.0000	1.1888	1.1888	2.9000e-004	0.0000	1.1961

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	2.0200e-003	0.0514	0.0141	1.1000e-004	2.5600e-003	4.0000e-004	2.9500e-003	7.4000e-004	3.8000e-004	1.1200e-003	0.0000	10.3049	10.3049	8.5000e-004	0.0000	10.3261
Worker	4.7900e-003	3.8000e-003	0.0364	1.0000e-004	8.9900e-003	7.0000e-005	9.0600e-003	2.3900e-003	6.0000e-005	2.4500e-003	0.0000	8.6555	8.6555	3.0000e-004	0.0000	8.6629
Total	6.8100e-003	0.0552	0.0505	2.1000e-004	0.0116	4.7000e-004	0.0120	3.1300e-003	4.4000e-004	3.5700e-003	0.0000	18.9603	18.9603	1.1500e-003	0.0000	18.9890

4.0 Operational Detail - Mobile

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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	tons/yr										MT/yr					
Mitigated	34.3285	144.0133	390.2601	1.0880	84.6046	1.3080	85.9125	22.6638	1.2328	23.8966	0.0000	99,942.51 27	99,942.51 27	6.0118	0.0000	100,092.8 066
Unmitigated	34.3285	144.0133	390.2601	1.0880	84.6046	1.3080	85.9125	22.6638	1.2328	23.8966	0.0000	99,942.51 27	99,942.51 27	6.0118	0.0000	100,092.8 066

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	32,258.50	32,258.50	32,258.50	92,107,803	92,107,803
City Park	0.00	0.00	0.00		
Condo/Townhouse	314.00	314.00	314.00	896,565	896,565
General Light Industry	18,470.52	18,470.52	18,470.52	53,924,878	53,924,878
General Office Building	12,081.70	12,081.70	12,081.70	28,872,270	28,872,270
Health Club	42.51	42.51	42.51	73,436	73,436
Hotel	947.97	947.97	947.97	1,801,077	1,801,077
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,008.58	1,008.58	1,008.58	2,879,802	2,879,802
Strip Mall	28,475.33	28,475.33	28,475.33	43,852,955	43,852,955
Total	93,599.10	93,599.10	93,599.10	224,408,788	224,408,788

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
City Park	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Condo/Townhouse	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
General Light Industry	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
General Office Building	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Health Club	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Hotel	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Other Asphalt Surfaces	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Single Family Housing	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Strip Mall	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,462.747 2	7,462.747 2	0.2938	0.0653	7,489.546 2
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,462.747 2	7,462.747 2	0.2938	0.0653	7,489.546 2
NaturalGas Mitigated	0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	2,619.397 6	2,619.397 6	0.0502	0.0480	2,634.963 3
NaturalGas Unmitigated	0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	2,619.397 6	2,619.397 6	0.0502	0.0480	2,634.963 3

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.29867e+006	0.0232	0.1981	0.0843	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.3935	229.3935	4.4000e-003	4.2100e-003	230.7567
City Park	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
Condo/Townhouse	584126	3.1500e-003	0.0269	0.0115	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	31.1712	31.1712	6.0000e-004	5.7000e-004	31.3564
General Light Industry	2.05061e+007	0.1106	1.0052	0.8444	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	1,094.2861	1,094.2861	0.0210	0.0201	1,100.7889
General Office Building	1.37112e+007	0.0739	0.6721	0.5646	4.0300e-003		0.0511	0.0511		0.0511	0.0511	0.0000	731.6800	731.6800	0.0140	0.0134	736.0281
Health Club	301965	1.6300e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.1140	16.1140	3.1000e-004	3.0000e-004	16.2098
Hotel	2.35206e+006	0.0127	0.1153	0.0969	6.9000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	125.5149	125.5149	2.4100e-003	2.3000e-003	126.2608
Other 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	0.0000
Single Family Housing	6.34679e+006	0.0342	0.2925	0.1245	1.8700e-003		0.0236	0.0236		0.0236	0.0236	0.0000	338.6886	338.6886	6.4900e-003	6.2100e-003	340.7013
Strip Mall	984733	5.3100e-003	0.0483	0.0406	2.9000e-004		3.6700e-003	3.6700e-003		3.6700e-003	3.6700e-003	0.0000	52.5491	52.5491	1.0100e-003	9.6000e-004	52.8614
Total		0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	2,619.3976	2,619.3976	0.0502	0.0480	2,634.9634

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.29867e+006	0.0232	0.1981	0.0843	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.3935	229.3935	4.4000e-003	4.2100e-003	230.7567
City Park	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
Condo/Townhouse	584126	3.1500e-003	0.0269	0.0115	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	31.1712	31.1712	6.0000e-004	5.7000e-004	31.3564
General Light Industry	2.05061e+007	0.1106	1.0052	0.8444	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	1,094.2861	1,094.2861	0.0210	0.0201	1,100.7889
General Office Building	1.37112e+007	0.0739	0.6721	0.5646	4.0300e-003		0.0511	0.0511		0.0511	0.0511	0.0000	731.6800	731.6800	0.0140	0.0134	736.0281
Health Club	301965	1.6300e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.1140	16.1140	3.1000e-004	3.0000e-004	16.2098
Hotel	2.35206e+006	0.0127	0.1153	0.0969	6.9000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	125.5149	125.5149	2.4100e-003	2.3000e-003	126.2608
Other 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	0.0000
Single Family Housing	6.34679e+006	0.0342	0.2925	0.1245	1.8700e-003		0.0236	0.0236		0.0236	0.0236	0.0000	338.6886	338.6886	6.4900e-003	6.2100e-003	340.7013
Strip Mall	984733	5.3100e-003	0.0483	0.0406	2.9000e-004		3.6700e-003	3.6700e-003		3.6700e-003	3.6700e-003	0.0000	52.5491	52.5491	1.0100e-003	9.6000e-004	52.8614
Total		0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	2,619.3976	2,619.3976	0.0502	0.0480	2,634.9634

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.60415e+006	540.1151	0.0213	4.7200e-003	542.0546
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	175396	36.3781	1.4300e-003	3.2000e-004	36.5087
General Light Industry	1.56507e+007	3,246.0447	0.1278	0.0284	3,257.7013
General Office Building	9.16018e+006	1,899.8674	0.0748	0.0166	1,906.6899
Health Club	230467	47.8000	1.8800e-003	4.2000e-004	47.9716
Hotel	587729	121.8979	4.8000e-003	1.0700e-003	122.3357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.52959e+006	317.2456	0.0125	2.7800e-003	318.3848
Strip Mall	6.04324e+006	1,253.3985	0.0493	0.0110	1,257.8995
Total		7,462.7472	0.2938	0.0653	7,489.5462

9051 Morena Existing Conditions - San Diego County, Annual

5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.60415e+006	540.1151	0.0213	4.7200e-003	542.0546
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	175396	36.3781	1.4300e-003	3.2000e-004	36.5087
General Light Industry	1.56507e+007	3,246.0447	0.1278	0.0284	3,257.7013
General Office Building	9.16018e+006	1,899.8674	0.0748	0.0166	1,906.6899
Health Club	230467	47.8000	1.8800e-003	4.2000e-004	47.9716
Hotel	587729	121.8979	4.8000e-003	1.0700e-003	122.3357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.52959e+006	317.2456	0.0125	2.7800e-003	318.3848
Strip Mall	6.04324e+006	1,253.3985	0.0493	0.0110	1,257.8995
Total		7,462.7472	0.2938	0.0653	7,489.5462

6.0 Area Detail**6.1 Mitigation Measures Area**

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Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	33.5607	0.3137	21.8925	0.0237		2.0176	2.0176		2.0176	2.0176	175.6594	103.4967	279.1561	0.0139	0.0172	284.6205
Unmitigated	30.8238	0.3137	21.8925	0.0237		2.0176	2.0176		2.0176	2.0176	175.6594	103.4967	279.1561	0.0139	0.0172	284.6205

9051 Morena Existing Conditions - San Diego County, Annual

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	2.2817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.2593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	13.0509	0.2270	14.4192	0.0233		1.9769	1.9769		1.9769	1.9769	175.6594	91.3674	267.0268	1.7500e-003	0.0172	272.1886
Landscaping	0.2320	0.0867	7.4733	3.9000e-004		0.0407	0.0407		0.0407	0.0407	0.0000	12.1293	12.1293	0.0121	0.0000	12.4319
Total	30.8238	0.3136	21.8925	0.0237		2.0176	2.0176		2.0176	2.0176	175.6594	103.4967	279.1561	0.0139	0.0172	284.6205

9051 Morena Existing Conditions - San Diego County, Annual

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	5.0185					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.2593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	13.0509	0.2270	14.4192	0.0233		1.9769	1.9769		1.9769	1.9769	175.6594	91.3674	267.0268	1.7500e-003	0.0172	272.1886
Landscaping	0.2320	0.0867	7.4733	3.9000e-004		0.0407	0.0407		0.0407	0.0407	0.0000	12.1293	12.1293	0.0121	0.0000	12.4319
Total	33.5606	0.3136	21.8925	0.0237		2.0176	2.0176		2.0176	2.0176	175.6594	103.4967	279.1561	0.0139	0.0172	284.6205

7.0 Water Detail**7.1 Mitigation Measures Water**

9051 Morena Existing Conditions - San Diego County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,063.809 0	19.1876	0.4677	2,682.885 5
Unmitigated	2,063.809 0	19.1876	0.4677	2,682.885 5

9051 Morena Existing Conditions - San Diego County, Annual

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	48.5397 / 30.6011	217.0003	1.5896	0.0391	268.3952
City Park	0 / 3.58636	8.2639	3.3000e-004	7.0000e-005	8.2936
Condo/Townhouse	2.60616 / 1.64301	11.6510	0.0854	2.1000e-003	14.4105
General Light Industry	385.845 / 0	1,164.4331	12.6138	0.3060	1,570.9617
General Office Building	103.436 / 63.3961	458.2379	3.3872	0.0833	567.7429
Health Club	1.45315 / 0.890639	6.4377	0.0476	1.1700e-003	7.9761
Hotel	0.684903 / 0.0761003	2.2423	0.0224	5.4000e-004	2.9646
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.7475 / 8.6669	61.4591	0.4502	0.0111	76.0153
Strip Mall	30.266 / 18.5501	134.0837	0.9911	0.0244	166.1257
Total		2,063.8090	19.1876	0.4678	2,682.8855

9051 Morena Existing Conditions - San Diego County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	48.5397 / 30.6011	217.0003	1.5896	0.0391	268.3952
City Park	0 / 3.58636	8.2639	3.3000e-004	7.0000e-005	8.2936
Condo/Townhouse	2.60616 / 1.64301	11.6510	0.0854	2.1000e-003	14.4105
General Light Industry	385.845 / 0	1,164.4331	12.6138	0.3060	1,570.9617
General Office Building	103.436 / 63.3961	458.2379	3.3872	0.0833	567.7429
Health Club	1.45315 / 0.890639	6.4377	0.0476	1.1700e-003	7.9761
Hotel	0.684903 / 0.0761003	2.2423	0.0224	5.4000e-004	2.9646
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.7475 / 8.6669	61.4591	0.4502	0.0111	76.0153
Strip Mall	30.266 / 18.5501	134.0837	0.9911	0.0244	166.1257
Total		2,063.8090	19.1876	0.4678	2,682.8855

8.0 Waste Detail**8.1 Mitigation Measures Waste**

9051 Morena Existing Conditions - San Diego County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	768.5725	45.4213	0.0000	1,904.105 ₉
Unmitigated	768.5725	45.4213	0.0000	1,904.105 ₉

9051 Morena Existing Conditions - San Diego County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	342.7	69.5650	4.1112	0.0000	172.3444
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Condo/Townhouse	18.4	3.7350	0.2207	0.0000	9.2534
General Light Industry	2068.96	419.9802	24.8201	0.0000	1,040.4831
General Office Building	541.23	109.8648	6.4928	0.0000	272.1854
Health Club	140.05	28.4289	1.6801	0.0000	70.4314
Hotel	14.78	3.0002	0.1773	0.0000	7.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	230.83	46.8564	2.7691	0.0000	116.0848
Strip Mall	429.03	87.0892	5.1468	0.0000	215.7598
Total		768.5725	45.4213	0.0000	1,904.1059

9051 Morena Existing Conditions - San Diego County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	342.7	69.5650	4.1112	0.0000	172.3444
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Condo/Townhouse	18.4	3.7350	0.2207	0.0000	9.2534
General Light Industry	2068.96	419.9802	24.8201	0.0000	1,040.4831
General Office Building	541.23	109.8648	6.4928	0.0000	272.1854
Health Club	140.05	28.4289	1.6801	0.0000	70.4314
Hotel	14.78	3.0002	0.1773	0.0000	7.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	230.83	46.8564	2.7691	0.0000	116.0848
Strip Mall	429.03	87.0892	5.1468	0.0000	215.7598
Total		768.5725	45.4213	0.0000	1,904.1059

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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9051 Morena Existing Conditions - San Diego County, Annual

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

9051 Morena Existing Conditions - San Diego County, Summer

9051 Morena Existing Conditions

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	581.97	1000sqft	23.20	581,968.00	0
General Light Industry	1,668.52	1000sqft	78.48	1,668,523.00	0
Other Asphalt Surfaces	28.03	Acre	28.03	1,220,987.00	0
City Park	3.01	Acre	3.01	106,722.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	745.00	Dwelling Unit	47.17	745,000.00	1989
Condo/Townhouse	40.00	Dwelling Unit	3.70	40,000.00	107
Single Family Housing	211.00	Dwelling Unit	13.11	379,800.00	563
Strip Mall	408.60	1000sqft	21.99	408,603.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

9051 Morena Existing Conditions - San Diego County, Summer

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation - Placeworks CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250
tblConstructionPhase	NumDays	4,650.00	1.00
tblFireplaces	NumberGas	409.75	0.00
tblFireplaces	NumberGas	22.00	0.00
tblFireplaces	NumberGas	116.05	116.00
tblFireplaces	NumberNoFireplace	74.50	745.00
tblFireplaces	NumberNoFireplace	4.00	40.00

9051 Morena Existing Conditions - San Diego County, Summer

tblFireplaces	NumberNoFireplace	21.10	21.00
tblFireplaces	NumberWood	260.75	0.00
tblFireplaces	NumberWood	14.00	0.00
tblFireplaces	NumberWood	73.85	74.00
tblLandUse	LandUseSquareFeet	581,970.00	581,968.00
tblLandUse	LandUseSquareFeet	1,668,520.00	1,668,523.00
tblLandUse	LandUseSquareFeet	1,220,986.80	1,220,987.00
tblLandUse	LandUseSquareFeet	131,115.60	106,722.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	408,600.00	408,603.00
tblLandUse	LotAcreage	13.36	23.20
tblLandUse	LotAcreage	38.30	78.48
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	19.61	47.17
tblLandUse	LotAcreage	2.50	3.70
tblLandUse	LotAcreage	68.51	13.11
tblLandUse	LotAcreage	9.38	21.99
tblLandUse	Population	2,131.00	1,989.00
tblLandUse	Population	114.00	107.00
tblLandUse	Population	603.00	563.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	ST_TR	6.39	43.30
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	7.85

9051 Morena Existing Conditions - San Diego County, Summer

tblVehicleTrips	ST_TR	1.32	11.07
tblVehicleTrips	ST_TR	2.46	20.76
tblVehicleTrips	ST_TR	20.87	1.73
tblVehicleTrips	ST_TR	8.19	35.11
tblVehicleTrips	ST_TR	9.91	4.78
tblVehicleTrips	ST_TR	42.04	69.69
tblVehicleTrips	SU_TR	5.86	43.30
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	7.85
tblVehicleTrips	SU_TR	0.68	11.07
tblVehicleTrips	SU_TR	1.05	20.76
tblVehicleTrips	SU_TR	26.73	1.73
tblVehicleTrips	SU_TR	5.95	35.11
tblVehicleTrips	SU_TR	8.62	4.78
tblVehicleTrips	SU_TR	20.43	69.69
tblVehicleTrips	WD_TR	6.65	43.30
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	7.85
tblVehicleTrips	WD_TR	6.97	11.07
tblVehicleTrips	WD_TR	11.03	20.76
tblVehicleTrips	WD_TR	32.93	1.73
tblVehicleTrips	WD_TR	8.17	35.11
tblVehicleTrips	WD_TR	9.52	4.78
tblVehicleTrips	WD_TR	44.32	69.69
tblWoodstoves	NumberCatalytic	37.25	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberCatalytic	10.55	0.00

9051 Morena Existing Conditions - San Diego County, Summer

tblWoodstoves	NumberNoncatalytic	37.25	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	10.55	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

9051 Morena Existing Conditions - San Diego County, Summer

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					
2018	16.1979	131.7161	121.2289	0.4436	23.6384	2.4260	26.0644	6.3879	2.2913	8.6792	0.0000	45,706.3017	45,706.3017	3.1506	0.0000	45,785.0652
Maximum	16.1979	131.7161	121.2289	0.4436	23.6384	2.4260	26.0644	6.3879	2.2913	8.6792	0.0000	45,706.3017	45,706.3017	3.1506	0.0000	45,785.0652

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					
2018	16.1979	131.7161	121.2289	0.4436	23.6384	2.4260	26.0644	6.3879	2.2913	8.6792	0.0000	45,706.3017	45,706.3017	3.1506	0.0000	45,785.0652
Maximum	16.1979	131.7161	121.2289	0.4436	23.6384	2.4260	26.0644	6.3879	2.2913	8.6792	0.0000	45,706.3017	45,706.3017	3.1506	0.0000	45,785.0652

[illegible]

9051 Morena Existing Conditions - San Diego County, Summer

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	417.0067	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.716 1	2,605.028 7	7,327.744 8	0.1954	0.4618	7,470.229 0
Energy	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
Mobile	198.5346	765.0519	2,181.268 5	6.2508	476.0259	7.1663	483.1922	127.2672	6.7541	134.0213		632,706.6 953	632,706.6 953	36.5851		633,621.3 215
Total	616.9916	784.5543	2,625.741 2	6.9022	476.0259	56.8372	532.8631	127.2672	56.4249	183.6921	4,722.716 1	651,133.0 476	655,855.7 637	37.0837	0.7518	657,006.8 923

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	432.0030	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.716 1	2,605.028 7	7,327.744 8	0.1954	0.4618	7,470.229 0
Energy	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
Mobile	198.5346	765.0519	2,181.268 5	6.2508	476.0259	7.1663	483.1922	127.2672	6.7541	134.0213		632,706.6 953	632,706.6 953	36.5851		633,621.3 215
Total	631.9879	784.5543	2,625.741 2	6.9022	476.0259	56.8372	532.8631	127.2672	56.4249	183.6921	4,722.716 1	651,133.0 476	655,855.7 637	37.0837	0.7518	657,006.8 923

9051 Morena Existing Conditions - San Diego 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
Percent Reduction	-2.43	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	Building Construction	Building Construction	4/18/2018	4/18/2018	5	1	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 28.03****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

9051 Morena Existing Conditions - San Diego County, Summer

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
Building Construction	9	2,243.00	770.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Existing Conditions - San Diego County, Summer

3.2 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	3.9710	101.4504	26.8646	0.2146	5.2127	0.7935	6.0061	1.5006	0.7590	2.2596		22,960.61 96	22,960.61 96	1.8198		23,006.114 4
Worker	9.5474	6.8757	76.7838	0.2021	18.4257	0.1327	18.5584	4.8874	0.1223	5.0097		20,124.74 69	20,124.74 69	0.6886		20,141.96 26
Total	13.5185	108.3261	103.6485	0.4167	23.6384	0.9261	24.5645	6.3879	0.8814	7.2693		43,085.36 66	43,085.36 66	2.5084		43,148.07 69

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

9051 Morena Existing Conditions - San Diego County, Summer

3.2 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	3.9710	101.4504	26.8646	0.2146	5.2127	0.7935	6.0061	1.5006	0.7590	2.2596		22,960.61 96	22,960.61 96	1.8198		23,006.114 4
Worker	9.5474	6.8757	76.7838	0.2021	18.4257	0.1327	18.5584	4.8874	0.1223	5.0097		20,124.74 69	20,124.74 69	0.6886		20,141.96 26
Total	13.5185	108.3261	103.6485	0.4167	23.6384	0.9261	24.5645	6.3879	0.8814	7.2693		43,085.36 66	43,085.36 66	2.5084		43,148.07 69

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Existing Conditions - San Diego 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	198.5346	765.0519	2,181.2685	6.2508	476.0259	7.1663	483.1922	127.2672	6.7541	134.0213		632,706.6953	632,706.6953	36.5851		633,621.3215
Unmitigated	198.5346	765.0519	2,181.2685	6.2508	476.0259	7.1663	483.1922	127.2672	6.7541	134.0213		632,706.6953	632,706.6953	36.5851		633,621.3215

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	32,258.50	32,258.50	32,258.50	92,107,803	92,107,803
City Park	0.00	0.00	0.00		
Condo/Townhouse	314.00	314.00	314.00	896,565	896,565
General Light Industry	18,470.52	18,470.52	18,470.52	53,924,878	53,924,878
General Office Building	12,081.70	12,081.70	12,081.70	28,872,270	28,872,270
Health Club	42.51	42.51	42.51	73,436	73,436
Hotel	947.97	947.97	947.97	1,801,077	1,801,077
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,008.58	1,008.58	1,008.58	2,879,802	2,879,802
Strip Mall	28,475.33	28,475.33	28,475.33	43,852,955	43,852,955
Total	93,599.10	93,599.10	93,599.10	224,408,788	224,408,788

4.3 Trip Type Information

9051 Morena Existing Conditions - San Diego County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
City Park	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Condo/Townhouse	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
General Light Industry	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
General Office Building	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Health Club	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Hotel	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Other Asphalt Surfaces	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Single Family Housing	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Strip Mall	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9051 Morena Existing Conditions - San Diego 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					
NaturalGas Mitigated	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3032	0.2901	15,915.3419
NaturalGas Unmitigated	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3032	0.2901	15,915.3419

9051 Morena Existing Conditions - San Diego 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					
Apartments Mid Rise	11777.2	0.1270	1.0854	0.4619	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,385.5511	1,385.5511	0.0266	0.0254	1,393.7848
City Park	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
Condo/Townhouse	1600.35	0.0173	0.1475	0.0628	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.2760	188.2760	3.6100e-003	3.4500e-003	189.3949
General Light Industry	56181.2	0.6059	5.5080	4.6267	0.0331		0.4186	0.4186		0.4186	0.4186		6,609.5561	6,609.5561	0.1267	0.1212	6,648.8333
General Office Building	37564.8	0.4051	3.6828	3.0936	0.0221		0.2799	0.2799		0.2799	0.2799		4,419.3928	4,419.3928	0.0847	0.0810	4,445.6550
Health Club	827.302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	17388.5	0.1875	1.6025	0.6819	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.7003	2,045.7003	0.0392	0.0375	2,057.8568
Strip Mall	2697.9	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.3999	317.3999	6.0800e-003	5.8200e-003	319.2861
Total		1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3033	0.2901	15,915.3419

9051 Morena Existing Conditions - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11.7772	0.1270	1.0854	0.4619	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,385.5511	1,385.5511	0.0266	0.0254	1,393.7848
City Park	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
Condo/Townhouse	1.60035	0.0173	0.1475	0.0628	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.2760	188.2760	3.6100e-003	3.4500e-003	189.3949
General Light Industry	56.1812	0.6059	5.5080	4.6267	0.0331		0.4186	0.4186		0.4186	0.4186		6,609.5561	6,609.5561	0.1267	0.1212	6,648.8333
General Office Building	37.5648	0.4051	3.6828	3.0936	0.0221		0.2799	0.2799		0.2799	0.2799		4,419.3928	4,419.3928	0.0847	0.0810	4,445.6550
Health Club	0.827302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6.444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	17.3885	0.1875	1.6025	0.6819	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.7003	2,045.7003	0.0392	0.0375	2,057.8568
Strip Mall	2.6979	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.3999	317.3999	6.0800e-003	5.8200e-003	319.2861
Total		1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3033	0.2901	15,915.3419

6.0 Area Detail**6.1 Mitigation Measures Area**

9051 Morena Existing Conditions - San Diego County, Summer

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	432.0030	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.7161	2,605.0287	7,327.7448	0.1954	0.4618	7,470.2290
Unmitigated	417.0067	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.7161	2,605.0287	7,327.7448	0.1954	0.4618	7,470.2290

9051 Morena Existing Conditions - San Diego County, Summer

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	12.5023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.6124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	318.3140	5.5357	351.6889	0.5679		48.2162	48.2162		48.2162	48.2162	4,722.716 1	2,456.470 6	7,179.186 7	0.0471	0.4618	7,317.963 9
Landscaping	2.5780	0.9631	83.0362	4.3600e-003		0.4527	0.4527		0.4527	0.4527		148.5581	148.5581	0.1483		152.2650
Total	417.0067	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.716 1	2,605.028 7	7,327.744 8	0.1954	0.4618	7,470.229 0

9051 Morena Existing Conditions - San Diego County, Summer

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	27.4986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.6124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	318.3140	5.5357	351.6889	0.5679		48.2162	48.2162		48.2162	48.2162	4,722.716 1	2,456.470 6	7,179.186 7	0.0471	0.4618	7,317.963 9
Landscaping	2.5780	0.9631	83.0362	4.3600e-003		0.4527	0.4527		0.4527	0.4527		148.5581	148.5581	0.1483		152.2650
Total	432.0030	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.716 1	2,605.028 7	7,327.744 8	0.1954	0.4618	7,470.229 0

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Existing Conditions - San Diego County, Summer

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

9051 Morena Existing Conditions - San Diego County, Winter

9051 Morena Existing Conditions

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	581.97	1000sqft	23.20	581,968.00	0
General Light Industry	1,668.52	1000sqft	78.48	1,668,523.00	0
Other Asphalt Surfaces	28.03	Acre	28.03	1,220,987.00	0
City Park	3.01	Acre	3.01	106,722.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	745.00	Dwelling Unit	47.17	745,000.00	1989
Condo/Townhouse	40.00	Dwelling Unit	3.70	40,000.00	107
Single Family Housing	211.00	Dwelling Unit	13.11	379,800.00	563
Strip Mall	408.60	1000sqft	21.99	408,603.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

9051 Morena Existing Conditions - San Diego County, Winter

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation - Placeworks CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250
tblConstructionPhase	NumDays	4,650.00	1.00
tblFireplaces	NumberGas	409.75	0.00
tblFireplaces	NumberGas	22.00	0.00
tblFireplaces	NumberGas	116.05	116.00
tblFireplaces	NumberNoFireplace	74.50	745.00
tblFireplaces	NumberNoFireplace	4.00	40.00

9051 Morena Existing Conditions - San Diego County, Winter

tblFireplaces	NumberNoFireplace	21.10	21.00
tblFireplaces	NumberWood	260.75	0.00
tblFireplaces	NumberWood	14.00	0.00
tblFireplaces	NumberWood	73.85	74.00
tblLandUse	LandUseSquareFeet	581,970.00	581,968.00
tblLandUse	LandUseSquareFeet	1,668,520.00	1,668,523.00
tblLandUse	LandUseSquareFeet	1,220,986.80	1,220,987.00
tblLandUse	LandUseSquareFeet	131,115.60	106,722.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	408,600.00	408,603.00
tblLandUse	LotAcreage	13.36	23.20
tblLandUse	LotAcreage	38.30	78.48
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	19.61	47.17
tblLandUse	LotAcreage	2.50	3.70
tblLandUse	LotAcreage	68.51	13.11
tblLandUse	LotAcreage	9.38	21.99
tblLandUse	Population	2,131.00	1,989.00
tblLandUse	Population	114.00	107.00
tblLandUse	Population	603.00	563.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblVehicleTrips	ST_TR	6.39	43.30
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	7.85

9051 Morena Existing Conditions - San Diego County, Winter

tblVehicleTrips	ST_TR	1.32	11.07
tblVehicleTrips	ST_TR	2.46	20.76
tblVehicleTrips	ST_TR	20.87	1.73
tblVehicleTrips	ST_TR	8.19	35.11
tblVehicleTrips	ST_TR	9.91	4.78
tblVehicleTrips	ST_TR	42.04	69.69
tblVehicleTrips	SU_TR	5.86	43.30
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	7.85
tblVehicleTrips	SU_TR	0.68	11.07
tblVehicleTrips	SU_TR	1.05	20.76
tblVehicleTrips	SU_TR	26.73	1.73
tblVehicleTrips	SU_TR	5.95	35.11
tblVehicleTrips	SU_TR	8.62	4.78
tblVehicleTrips	SU_TR	20.43	69.69
tblVehicleTrips	WD_TR	6.65	43.30
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	7.85
tblVehicleTrips	WD_TR	6.97	11.07
tblVehicleTrips	WD_TR	11.03	20.76
tblVehicleTrips	WD_TR	32.93	1.73
tblVehicleTrips	WD_TR	8.17	35.11
tblVehicleTrips	WD_TR	9.52	4.78
tblVehicleTrips	WD_TR	44.32	69.69
tblWoodstoves	NumberCatalytic	37.25	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberCatalytic	10.55	0.00

9051 Morena Existing Conditions - San Diego County, Winter

tblWoodstoves	NumberNoncatalytic	37.25	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	10.55	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

9051 Morena Existing Conditions - San Diego County, Winter

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					
2018	17.6032	132.7351	120.1393	0.4260	23.6384	2.4392	26.0776	6.3879	2.3039	8.6919	0.0000	43,898.0775	43,898.0775	3.2338	0.0000	43,978.9217
Maximum	17.6032	132.7351	120.1393	0.4260	23.6384	2.4392	26.0776	6.3879	2.3039	8.6919	0.0000	43,898.0775	43,898.0775	3.2338	0.0000	43,978.9217

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					
2018	17.6032	132.7351	120.1393	0.4260	23.6384	2.4392	26.0776	6.3879	2.3039	8.6919	0.0000	43,898.0775	43,898.0775	3.2338	0.0000	43,978.9217
Maximum	17.6032	132.7351	120.1393	0.4260	23.6384	2.4392	26.0776	6.3879	2.3039	8.6919	0.0000	43,898.0775	43,898.0775	3.2338	0.0000	43,978.9217

[illegible]

9051 Morena Existing Conditions - San Diego County, Winter

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	417.0067	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.716 1	2,605.028 7	7,327.744 8	0.1954	0.4618	7,470.229 0
Energy	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
Mobile	194.2595	789.3474	2,176.794 4	5.9230	476.0259	7.2350	483.2609	127.2672	6.8198	134.0870		599,655.5 368	599,655.5 368	36.8356		600,576.4 258
Total	612.7164	808.8498	2,621.267 2	6.5744	476.0259	56.9059	532.9318	127.2672	56.4907	183.7578	4,722.716 1	618,081.8 892	622,804.6 053	37.3342	0.7518	623,961.9 966

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	432.0030	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.716 1	2,605.028 7	7,327.744 8	0.1954	0.4618	7,470.229 0
Energy	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
Mobile	194.2595	789.3474	2,176.794 4	5.9230	476.0259	7.2350	483.2609	127.2672	6.8198	134.0870		599,655.5 368	599,655.5 368	36.8356		600,576.4 258
Total	627.7128	808.8498	2,621.267 2	6.5744	476.0259	56.9059	532.9318	127.2672	56.4907	183.7578	4,722.716 1	618,081.8 892	622,804.6 053	37.3342	0.7518	623,961.9 966

9051 Morena Existing Conditions - San Diego County, Winter

	ROG	NOx	CO	SO2	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	-2.45	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	Building Construction	Building Construction	4/18/2018	4/18/2018	5	1	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 28.03****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

9051 Morena Existing Conditions - San Diego County, Winter

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
Building Construction	9	2,243.00	770.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Existing Conditions - San Diego County, Winter

3.2 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	4.1389	101.6231	29.7227	0.2093	5.2127	0.8067	6.0193	1.5006	0.7717	2.2722		22,383.74 15	22,383.74 15	1.9369		22,432.16 40
Worker	10.7848	7.7220	72.8362	0.1898	18.4257	0.1327	18.5584	4.8874	0.1223	5.0097		18,893.40 09	18,893.40 09	0.6547		18,909.76 95
Total	14.9237	109.3451	102.5588	0.3991	23.6384	0.9393	24.5777	6.3879	0.8940	7.2819		41,277.14 24	41,277.14 24	2.5916		41,341.93 34

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.935 1	2,620.935 1	0.6421		2,636.988 3

9051 Morena Existing Conditions - San Diego County, Winter

3.2 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	4.1389	101.6231	29.7227	0.2093	5.2127	0.8067	6.0193	1.5006	0.7717	2.2722		22,383.74 15	22,383.74 15	1.9369		22,432.16 40
Worker	10.7848	7.7220	72.8362	0.1898	18.4257	0.1327	18.5584	4.8874	0.1223	5.0097		18,893.40 09	18,893.40 09	0.6547		18,909.76 95
Total	14.9237	109.3451	102.5588	0.3991	23.6384	0.9393	24.5777	6.3879	0.8940	7.2819		41,277.14 24	41,277.14 24	2.5916		41,341.93 34

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Existing Conditions - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	194.2595	789.3474	2,176.794 4	5.9230	476.0259	7.2350	483.2609	127.2672	6.8198	134.0870		599,655.5 368	599,655.5 368	36.8356		600,576.4 258
Unmitigated	194.2595	789.3474	2,176.794 4	5.9230	476.0259	7.2350	483.2609	127.2672	6.8198	134.0870		599,655.5 368	599,655.5 368	36.8356		600,576.4 258

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	32,258.50	32,258.50	32,258.50	92,107,803	92,107,803
City Park	0.00	0.00	0.00		
Condo/Townhouse	314.00	314.00	314.00	896,565	896,565
General Light Industry	18,470.52	18,470.52	18,470.52	53,924,878	53,924,878
General Office Building	12,081.70	12,081.70	12,081.70	28,872,270	28,872,270
Health Club	42.51	42.51	42.51	73,436	73,436
Hotel	947.97	947.97	947.97	1,801,077	1,801,077
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,008.58	1,008.58	1,008.58	2,879,802	2,879,802
Strip Mall	28,475.33	28,475.33	28,475.33	43,852,955	43,852,955
Total	93,599.10	93,599.10	93,599.10	224,408,788	224,408,788

4.3 Trip Type Information

9051 Morena Existing Conditions - San Diego County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
City Park	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Condo/Townhouse	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
General Light Industry	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
General Office Building	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Health Club	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Hotel	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Other Asphalt Surfaces	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Single Family Housing	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452
Strip Mall	0.574135	0.045525	0.189369	0.116519	0.019283	0.005646	0.014833	0.022073	0.001871	0.002173	0.006385	0.000739	0.001452

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9051 Morena Existing Conditions - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
NaturalGas Unmitigated	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19

9051 Morena Existing Conditions - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11777.2	0.1270	1.0854	0.4619	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,385.5511	1,385.5511	0.0266	0.0254	1,393.7848
City Park	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
Condo/Townhouse	1600.35	0.0173	0.1475	0.0628	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.2760	188.2760	3.6100e-003	3.4500e-003	189.3949
General Light Industry	56181.2	0.6059	5.5080	4.6267	0.0331		0.4186	0.4186		0.4186	0.4186		6,609.5561	6,609.5561	0.1267	0.1212	6,648.8333
General Office Building	37564.8	0.4051	3.6828	3.0936	0.0221		0.2799	0.2799		0.2799	0.2799		4,419.3928	4,419.3928	0.0847	0.0810	4,445.6550
Health Club	827.302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	17388.5	0.1875	1.6025	0.6819	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.7003	2,045.7003	0.0392	0.0375	2,057.8568
Strip Mall	2697.9	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.3999	317.3999	6.0800e-003	5.8200e-003	319.2861
Total		1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3033	0.2901	15,915.3419

9051 Morena Existing Conditions - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11.7772	0.1270	1.0854	0.4619	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,385.5511	1,385.5511	0.0266	0.0254	1,393.7848
City Park	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
Condo/Townhouse	1.60035	0.0173	0.1475	0.0628	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.2760	188.2760	3.6100e-003	3.4500e-003	189.3949
General Light Industry	56.1812	0.6059	5.5080	4.6267	0.0331		0.4186	0.4186		0.4186	0.4186		6,609.5561	6,609.5561	0.1267	0.1212	6,648.8333
General Office Building	37.5648	0.4051	3.6828	3.0936	0.0221		0.2799	0.2799		0.2799	0.2799		4,419.3928	4,419.3928	0.0847	0.0810	4,445.6550
Health Club	0.827302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6.444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	17.3885	0.1875	1.6025	0.6819	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.7003	2,045.7003	0.0392	0.0375	2,057.8568
Strip Mall	2.6979	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.3999	317.3999	6.0800e-003	5.8200e-003	319.2861
Total		1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3033	0.2901	15,915.3419

6.0 Area Detail**6.1 Mitigation Measures Area**

9051 Morena Existing Conditions - San Diego County, Winter

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	432.0030	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.7161	2,605.0287	7,327.7448	0.1954	0.4618	7,470.2290
Unmitigated	417.0067	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.7161	2,605.0287	7,327.7448	0.1954	0.4618	7,470.2290

9051 Morena Existing Conditions - San Diego County, Winter

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	12.5023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.6124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	318.3140	5.5357	351.6889	0.5679		48.2162	48.2162		48.2162	48.2162	4,722.716 1	2,456.470 6	7,179.186 7	0.0471	0.4618	7,317.963 9
Landscaping	2.5780	0.9631	83.0362	4.3600e-003		0.4527	0.4527		0.4527	0.4527		148.5581	148.5581	0.1483		152.2650
Total	417.0067	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.716 1	2,605.028 7	7,327.744 8	0.1954	0.4618	7,470.229 0

9051 Morena Existing Conditions - San Diego County, Winter

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	27.4986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.6124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	318.3140	5.5357	351.6889	0.5679		48.2162	48.2162		48.2162	48.2162	4,722.716 1	2,456.470 6	7,179.186 7	0.0471	0.4618	7,317.963 9
Landscaping	2.5780	0.9631	83.0362	4.3600e-003		0.4527	0.4527		0.4527	0.4527		148.5581	148.5581	0.1483		152.2650
Total	432.0030	6.4989	434.7250	0.5723		48.6688	48.6688		48.6688	48.6688	4,722.716 1	2,605.028 7	7,327.744 8	0.1954	0.4618	7,470.229 0

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Existing Conditions - San Diego County, Winter

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

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9051 Morena Existing Buildout

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	581.97	1000sqft	23.20	581,968.00	0
General Light Industry	1,668.52	1000sqft	78.48	1,668,523.00	0
Other Asphalt Surfaces	28.03	Acre	28.03	1,220,986.80	0
City Park	3.01	Acre	3.01	106,722.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	745.00	Dwelling Unit	47.17	745,000.00	1989
Condo/Townhouse	40.00	Dwelling Unit	3.70	40,000.00	107
Single Family Housing	211.00	Dwelling Unit	13.11	379,800.00	563
Strip Mall	408.60	1000sqft	21.99	408,603.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - Default

Solid Waste -

Area Mitigation - Placeworks CalEEMod Assumptions

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	4,650.00	2.00
tblFireplaces	NumberGas	409.75	0.00
tblFireplaces	NumberGas	22.00	0.00
tblFireplaces	NumberGas	116.05	116.00
tblFireplaces	NumberNoFireplace	74.50	745.00
tblFireplaces	NumberNoFireplace	4.00	40.00
tblFireplaces	NumberNoFireplace	21.10	21.00
tblFireplaces	NumberWood	260.75	0.00
tblFireplaces	NumberWood	14.00	0.00
tblFireplaces	NumberWood	73.85	74.00

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tblLandUse	LandUseSquareFeet	581,970.00	581,968.00
tblLandUse	LandUseSquareFeet	1,668,520.00	1,668,523.00
tblLandUse	LandUseSquareFeet	131,115.60	106,722.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	408,600.00	408,603.00
tblLandUse	LotAcreage	13.36	23.20
tblLandUse	LotAcreage	38.30	78.48
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	19.61	47.17
tblLandUse	LotAcreage	2.50	3.70
tblLandUse	LotAcreage	68.51	13.11
tblLandUse	LotAcreage	9.38	21.99
tblLandUse	Population	2,131.00	1,989.00
tblLandUse	Population	114.00	107.00
tblLandUse	Population	603.00	563.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	VendorTripNumber	770.00	774.00
tblTripsAndVMT	WorkerTripNumber	2,243.00	2,253.00
tblVehicleTrips	ST_TR	6.39	43.30
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	7.85
tblVehicleTrips	ST_TR	1.32	11.07
tblVehicleTrips	ST_TR	2.46	20.76
tblVehicleTrips	ST_TR	20.87	1.73

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tblVehicleTrips	ST_TR	8.19	35.11
tblVehicleTrips	ST_TR	9.91	4.78
tblVehicleTrips	ST_TR	42.04	69.69
tblVehicleTrips	SU_TR	5.86	43.30
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	7.85
tblVehicleTrips	SU_TR	0.68	11.07
tblVehicleTrips	SU_TR	1.05	20.76
tblVehicleTrips	SU_TR	26.73	1.73
tblVehicleTrips	SU_TR	5.95	35.11
tblVehicleTrips	SU_TR	8.62	4.78
tblVehicleTrips	SU_TR	20.43	69.69
tblVehicleTrips	WD_TR	6.65	43.30
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	7.85
tblVehicleTrips	WD_TR	6.97	11.07
tblVehicleTrips	WD_TR	11.03	20.76
tblVehicleTrips	WD_TR	32.93	1.73
tblVehicleTrips	WD_TR	8.17	35.11
tblVehicleTrips	WD_TR	9.52	4.78
tblVehicleTrips	WD_TR	44.32	69.69
tblWoodstoves	NumberCatalytic	37.25	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberCatalytic	10.55	0.00
tblWoodstoves	NumberNoncatalytic	37.25	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	10.55	0.00

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tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

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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					
2021	0.0121	0.1026	0.0941	4.1000e-004	0.0232	1.2500e-003	0.0245	6.2800e-003	1.1800e-003	7.4600e-003	0.0000	38.3346	38.3346	2.5100e-003	0.0000	38.3974
Maximum	0.0121	0.1026	0.0941	4.1000e-004	0.0232	1.2500e-003	0.0245	6.2800e-003	1.1800e-003	7.4600e-003	0.0000	38.3346	38.3346	2.5100e-003	0.0000	38.3974

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					
2021	0.0121	0.1026	0.0941	4.1000e-004	0.0232	1.2500e-003	0.0245	6.2800e-003	1.1800e-003	7.4600e-003	0.0000	38.3346	38.3346	2.5100e-003	0.0000	38.3974
Maximum	0.0121	0.1026	0.0941	4.1000e-004	0.0232	1.2500e-003	0.0245	6.2800e-003	1.1800e-003	7.4600e-003	0.0000	38.3346	38.3346	2.5100e-003	0.0000	38.3974

[illegible]

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	30.8144	0.3122	21.8137	0.0237		2.0180	2.0180		2.0180	2.0180	175.6594	103.4967	279.1561	0.0134	0.0172	284.6085
Energy	0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	10,082.14 48	10,082.14 48	0.3440	0.1133	10,124.50 95
Mobile	14.3821	69.1123	168.4004	0.7208	84.5378	0.3716	84.9094	22.6298	0.3453	22.9751	0.0000	67,256.32 74	67,256.32 74	3.2930	0.0000	67,338.65 21
Waste						0.0000	0.0000		0.0000	0.0000	768.5725	0.0000	768.5725	45.4213	0.0000	1,904.105 9
Water						0.0000	0.0000		0.0000	0.0000	186.0943	1,877.714 7	2,063.809 0	19.1876	0.4677	2,682.885 5
Total	45.4613	71.7977	191.9931	0.7589	84.5378	2.5724	87.1102	22.6298	2.5461	25.1759	1,130.326 2	79,319.68 35	80,450.00 97	68.2593	0.5982	82,334.76 14

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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	30.8144	0.3122	21.8137	0.0237		2.0180	2.0180		2.0180	2.0180	175.6594	103.4967	279.1561	0.0134	0.0172	284.6085
Energy	0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	10,082.1448	10,082.1448	0.3440	0.1133	10,124.5095
Mobile	14.3821	69.1123	168.4004	0.7208	84.5378	0.3716	84.9094	22.6298	0.3453	22.9751	0.0000	67,256.3274	67,256.3274	3.2930	0.0000	67,338.6521
Waste						0.0000	0.0000		0.0000	0.0000	768.5725	0.0000	768.5725	45.4213	0.0000	1,904.1059
Water						0.0000	0.0000		0.0000	0.0000	186.0943	1,877.7147	2,063.8090	19.1876	0.4677	2,682.8855
Total	45.4613	71.7977	191.9931	0.7589	84.5378	2.5724	87.1102	22.6298	2.5461	25.1759	1,130.3262	79,319.6835	80,450.0097	68.2593	0.5982	82,334.7614

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/1/2021	12/2/2021	5	2	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 28.03****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	2,253.00	774.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Building Construction - 2021**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	1.9000e-003	0.0174	0.0166	3.0000e-005		9.6000e-004	9.6000e-004		9.0000e-004	9.0000e-004	0.0000	2.3164	2.3164	5.6000e-004	0.0000	2.3303
Total	1.9000e-003	0.0174	0.0166	3.0000e-005		9.6000e-004	9.6000e-004		9.0000e-004	9.0000e-004	0.0000	2.3164	2.3164	5.6000e-004	0.0000	2.3303

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	2.3900e-003	0.0795	0.0212	2.1000e-004	5.1400e-003	1.7000e-004	5.3100e-003	1.4800e-003	1.6000e-004	1.6400e-003	0.0000	20.2355	20.2355	1.5000e-003	0.0000	20.2730
Worker	7.8300e-003	5.5900e-003	0.0563	1.7000e-004	0.0181	1.3000e-004	0.0182	4.8000e-003	1.2000e-004	4.9200e-003	0.0000	15.7828	15.7828	4.5000e-004	0.0000	15.7941
Total	0.0102	0.0851	0.0775	3.8000e-004	0.0232	3.0000e-004	0.0235	6.2800e-003	2.8000e-004	6.5600e-003	0.0000	36.0182	36.0182	1.9500e-003	0.0000	36.0671

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3.2 Building Construction - 2021**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	1.9000e-003	0.0174	0.0166	3.0000e-005		9.6000e-004	9.6000e-004		9.0000e-004	9.0000e-004	0.0000	2.3164	2.3164	5.6000e-004	0.0000	2.3303
Total	1.9000e-003	0.0174	0.0166	3.0000e-005		9.6000e-004	9.6000e-004		9.0000e-004	9.0000e-004	0.0000	2.3164	2.3164	5.6000e-004	0.0000	2.3303

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	2.3900e-003	0.0795	0.0212	2.1000e-004	5.1400e-003	1.7000e-004	5.3100e-003	1.4800e-003	1.6000e-004	1.6400e-003	0.0000	20.2355	20.2355	1.5000e-003	0.0000	20.2730
Worker	7.8300e-003	5.5900e-003	0.0563	1.7000e-004	0.0181	1.3000e-004	0.0182	4.8000e-003	1.2000e-004	4.9200e-003	0.0000	15.7828	15.7828	4.5000e-004	0.0000	15.7941
Total	0.0102	0.0851	0.0775	3.8000e-004	0.0232	3.0000e-004	0.0235	6.2800e-003	2.8000e-004	6.5600e-003	0.0000	36.0182	36.0182	1.9500e-003	0.0000	36.0671

4.0 Operational Detail - Mobile

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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	tons/yr										MT/yr					
Mitigated	14.3821	69.1123	168.4004	0.7208	84.5378	0.3716	84.9094	22.6298	0.3453	22.9751	0.0000	67,256.3274	67,256.3274	3.2930	0.0000	67,338.6521
Unmitigated	14.3821	69.1123	168.4004	0.7208	84.5378	0.3716	84.9094	22.6298	0.3453	22.9751	0.0000	67,256.3274	67,256.3274	3.2930	0.0000	67,338.6521

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	32,258.50	32,258.50	32,258.50	92,107,803	92,107,803
City Park	0.00	0.00	0.00		
Condo/Townhouse	314.00	314.00	314.00	896,565	896,565
General Light Industry	18,470.52	18,470.52	18,470.52	53,924,878	53,924,878
General Office Building	12,081.70	12,081.70	12,081.70	28,872,270	28,872,270
Health Club	42.51	42.51	42.51	73,436	73,436
Hotel	947.97	947.97	947.97	1,801,077	1,801,077
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,008.58	1,008.58	1,008.58	2,879,802	2,879,802
Strip Mall	28,475.33	28,475.33	28,475.33	43,852,955	43,852,955
Total	93,599.10	93,599.10	93,599.10	224,408,788	224,408,788

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,462.747 2	7,462.747 2	0.2938	0.0653	7,489.546 2
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7,462.747 2	7,462.747 2	0.2938	0.0653	7,489.546 2
NaturalGas Mitigated	0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	2,619.397 6	2,619.397 6	0.0502	0.0480	2,634.963 3
NaturalGas Unmitigated	0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	2,619.397 6	2,619.397 6	0.0502	0.0480	2,634.963 3

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.29867e+006	0.0232	0.1981	0.0843	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.3935	229.3935	4.4000e-003	4.2100e-003	230.7567
City Park	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
Condo/Townhouse	584126	3.1500e-003	0.0269	0.0115	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	31.1712	31.1712	6.0000e-004	5.7000e-004	31.3564
General Light Industry	2.05061e+007	0.1106	1.0052	0.8444	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	1,094.2861	1,094.2861	0.0210	0.0201	1,100.7889
General Office Building	1.37112e+007	0.0739	0.6721	0.5646	4.0300e-003		0.0511	0.0511		0.0511	0.0511	0.0000	731.6800	731.6800	0.0140	0.0134	736.0281
Health Club	301965	1.6300e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.1140	16.1140	3.1000e-004	3.0000e-004	16.2098
Hotel	2.35206e+006	0.0127	0.1153	0.0969	6.9000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	125.5149	125.5149	2.4100e-003	2.3000e-003	126.2608
Other 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	0.0000
Single Family Housing	6.34679e+006	0.0342	0.2925	0.1245	1.8700e-003		0.0236	0.0236		0.0236	0.0236	0.0000	338.6886	338.6886	6.4900e-003	6.2100e-003	340.7013
Strip Mall	984733	5.3100e-003	0.0483	0.0406	2.9000e-004		3.6700e-003	3.6700e-003		3.6700e-003	3.6700e-003	0.0000	52.5491	52.5491	1.0100e-003	9.6000e-004	52.8614
Total		0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	2,619.3976	2,619.3976	0.0502	0.0480	2,634.9634

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.29867e+006	0.0232	0.1981	0.0843	1.2600e-003		0.0160	0.0160		0.0160	0.0160	0.0000	229.3935	229.3935	4.4000e-003	4.2100e-003	230.7567
City Park	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
Condo/Townhouse	584126	3.1500e-003	0.0269	0.0115	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	31.1712	31.1712	6.0000e-004	5.7000e-004	31.3564
General Light Industry	2.05061e+007	0.1106	1.0052	0.8444	6.0300e-003		0.0764	0.0764		0.0764	0.0764	0.0000	1,094.2861	1,094.2861	0.0210	0.0201	1,100.7889
General Office Building	1.37112e+007	0.0739	0.6721	0.5646	4.0300e-003		0.0511	0.0511		0.0511	0.0511	0.0000	731.6800	731.6800	0.0140	0.0134	736.0281
Health Club	301965	1.6300e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.1140	16.1140	3.1000e-004	3.0000e-004	16.2098
Hotel	2.35206e+006	0.0127	0.1153	0.0969	6.9000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	125.5149	125.5149	2.4100e-003	2.3000e-003	126.2608
Other 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	0.0000
Single Family Housing	6.34679e+006	0.0342	0.2925	0.1245	1.8700e-003		0.0236	0.0236		0.0236	0.0236	0.0000	338.6886	338.6886	6.4900e-003	6.2100e-003	340.7013
Strip Mall	984733	5.3100e-003	0.0483	0.0406	2.9000e-004		3.6700e-003	3.6700e-003		3.6700e-003	3.6700e-003	0.0000	52.5491	52.5491	1.0100e-003	9.6000e-004	52.8614
Total		0.2647	2.3731	1.7790	0.0144		0.1829	0.1829		0.1829	0.1829	0.0000	2,619.3976	2,619.3976	0.0502	0.0480	2,634.9634

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.60415e+006	540.1151	0.0213	4.7200e-003	542.0546
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	175396	36.3781	1.4300e-003	3.2000e-004	36.5087
General Light Industry	1.56507e+007	3,246.0447	0.1278	0.0284	3,257.7013
General Office Building	9.16018e+006	1,899.8674	0.0748	0.0166	1,906.6899
Health Club	230467	47.8000	1.8800e-003	4.2000e-004	47.9716
Hotel	587729	121.8979	4.8000e-003	1.0700e-003	122.3357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.52959e+006	317.2456	0.0125	2.7800e-003	318.3848
Strip Mall	6.04324e+006	1,253.3985	0.0493	0.0110	1,257.8995
Total		7,462.7472	0.2938	0.0653	7,489.5462

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.60415e+006	540.1151	0.0213	4.7200e-003	542.0546
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	175396	36.3781	1.4300e-003	3.2000e-004	36.5087
General Light Industry	1.56507e+007	3,246.0447	0.1278	0.0284	3,257.7013
General Office Building	9.16018e+006	1,899.8674	0.0748	0.0166	1,906.6899
Health Club	230467	47.8000	1.8800e-003	4.2000e-004	47.9716
Hotel	587729	121.8979	4.8000e-003	1.0700e-003	122.3357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.52959e+006	317.2456	0.0125	2.7800e-003	318.3848
Strip Mall	6.04324e+006	1,253.3985	0.0493	0.0110	1,257.8995
Total		7,462.7472	0.2938	0.0653	7,489.5462

6.0 Area Detail**6.1 Mitigation Measures Area**

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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
Category	tons/yr										MT/yr					
Mitigated	30.8144	0.3122	21.8137	0.0237		2.0180	2.0180		2.0180	2.0180	175.6594	103.4967	279.1561	0.0134	0.0172	284.6085
Unmitigated	30.8144	0.3122	21.8137	0.0237		2.0180	2.0180		2.0180	2.0180	175.6594	103.4967	279.1561	0.0134	0.0172	284.6085

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	2.2817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.2593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	13.0509	0.2270	14.4192	0.0233		1.9769	1.9769		1.9769	1.9769	175.6594	91.3674	267.0268	1.7500e-003	0.0172	272.1886
Landscaping	0.2226	0.0853	7.3945	3.9000e-004		0.0411	0.0411		0.0411	0.0411	0.0000	12.1293	12.1293	0.0116	0.0000	12.4199
Total	30.8144	0.3122	21.8137	0.0237		2.0180	2.0180		2.0180	2.0180	175.6594	103.4967	279.1561	0.0134	0.0172	284.6085

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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	2.2817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	15.2593					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	13.0509	0.2270	14.4192	0.0233		1.9769	1.9769		1.9769	1.9769	175.6594	91.3674	267.0268	1.7500e-003	0.0172	272.1886
Landscaping	0.2226	0.0853	7.3945	3.9000e-004		0.0411	0.0411		0.0411	0.0411	0.0000	12.1293	12.1293	0.0116	0.0000	12.4199
Total	30.8144	0.3122	21.8137	0.0237		2.0180	2.0180		2.0180	2.0180	175.6594	103.4967	279.1561	0.0134	0.0172	284.6085

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,063.809 0	19.1876	0.4677	2,682.885 5
Unmitigated	2,063.809 0	19.1876	0.4677	2,682.885 5

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7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	48.5397 / 30.6011	217.0003	1.5896	0.0391	268.3952
City Park	0 / 3.58636	8.2639	3.3000e-004	7.0000e-005	8.2936
Condo/Townhouse	2.60616 / 1.64301	11.6510	0.0854	2.1000e-003	14.4105
General Light Industry	385.845 / 0	1,164.4331	12.6138	0.3060	1,570.9617
General Office Building	103.436 / 63.3961	458.2379	3.3872	0.0833	567.7429
Health Club	1.45315 / 0.890639	6.4377	0.0476	1.1700e-003	7.9761
Hotel	0.684903 / 0.0761003	2.2423	0.0224	5.4000e-004	2.9646
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.7475 / 8.6669	61.4591	0.4502	0.0111	76.0153
Strip Mall	30.266 / 18.5501	134.0837	0.9911	0.0244	166.1257
Total		2,063.8090	19.1876	0.4678	2,682.8855

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	48.5397 / 30.6011	217.0003	1.5896	0.0391	268.3952
City Park	0 / 3.58636	8.2639	3.3000e-004	7.0000e-005	8.2936
Condo/Townhouse	2.60616 / 1.64301	11.6510	0.0854	2.1000e-003	14.4105
General Light Industry	385.845 / 0	1,164.4331	12.6138	0.3060	1,570.9617
General Office Building	103.436 / 63.3961	458.2379	3.3872	0.0833	567.7429
Health Club	1.45315 / 0.890639	6.4377	0.0476	1.1700e-003	7.9761
Hotel	0.684903 / 0.0761003	2.2423	0.0224	5.4000e-004	2.9646
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	13.7475 / 8.6669	61.4591	0.4502	0.0111	76.0153
Strip Mall	30.266 / 18.5501	134.0837	0.9911	0.0244	166.1257
Total		2,063.8090	19.1876	0.4678	2,682.8855

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	768.5725	45.4213	0.0000	1,904.105 ₉
Unmitigated	768.5725	45.4213	0.0000	1,904.105 ₉

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	342.7	69.5650	4.1112	0.0000	172.3444
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Condo/Townhouse	18.4	3.7350	0.2207	0.0000	9.2534
General Light Industry	2068.96	419.9802	24.8201	0.0000	1,040.4831
General Office Building	541.23	109.8648	6.4928	0.0000	272.1854
Health Club	140.05	28.4289	1.6801	0.0000	70.4314
Hotel	14.78	3.0002	0.1773	0.0000	7.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	230.83	46.8564	2.7691	0.0000	116.0848
Strip Mall	429.03	87.0892	5.1468	0.0000	215.7598
Total		768.5725	45.4213	0.0000	1,904.1059

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	342.7	69.5650	4.1112	0.0000	172.3444
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Condo/Townhouse	18.4	3.7350	0.2207	0.0000	9.2534
General Light Industry	2068.96	419.9802	24.8201	0.0000	1,040.4831
General Office Building	541.23	109.8648	6.4928	0.0000	272.1854
Health Club	140.05	28.4289	1.6801	0.0000	70.4314
Hotel	14.78	3.0002	0.1773	0.0000	7.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	230.83	46.8564	2.7691	0.0000	116.0848
Strip Mall	429.03	87.0892	5.1468	0.0000	215.7598
Total		768.5725	45.4213	0.0000	1,904.1059

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

9051 Morena Existing Buildout - San Diego County, Summer

9051 Morena Existing Buildout

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	581.97	1000sqft	23.20	581,968.00	0
General Light Industry	1,668.52	1000sqft	78.48	1,668,523.00	0
Other Asphalt Surfaces	28.03	Acre	28.03	1,220,986.80	0
City Park	3.01	Acre	3.01	106,722.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	745.00	Dwelling Unit	47.17	745,000.00	1989
Condo/Townhouse	40.00	Dwelling Unit	3.70	40,000.00	107
Single Family Housing	211.00	Dwelling Unit	13.11	379,800.00	563
Strip Mall	408.60	1000sqft	21.99	408,603.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

9051 Morena Existing Buildout - San Diego County, Summer

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - Default

Solid Waste -

Area Mitigation - Placeworks CalEEMod Assumptions

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	4,650.00	2.00
tblFireplaces	NumberGas	409.75	0.00
tblFireplaces	NumberGas	22.00	0.00
tblFireplaces	NumberGas	116.05	116.00
tblFireplaces	NumberNoFireplace	74.50	745.00
tblFireplaces	NumberNoFireplace	4.00	40.00
tblFireplaces	NumberNoFireplace	21.10	21.00
tblFireplaces	NumberWood	260.75	0.00
tblFireplaces	NumberWood	14.00	0.00
tblFireplaces	NumberWood	73.85	74.00

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tblLandUse	LandUseSquareFeet	581,970.00	581,968.00
tblLandUse	LandUseSquareFeet	1,668,520.00	1,668,523.00
tblLandUse	LandUseSquareFeet	131,115.60	106,722.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	408,600.00	408,603.00
tblLandUse	LotAcreage	13.36	23.20
tblLandUse	LotAcreage	38.30	78.48
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	19.61	47.17
tblLandUse	LotAcreage	2.50	3.70
tblLandUse	LotAcreage	68.51	13.11
tblLandUse	LotAcreage	9.38	21.99
tblLandUse	Population	2,131.00	1,989.00
tblLandUse	Population	114.00	107.00
tblLandUse	Population	603.00	563.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	VendorTripNumber	770.00	774.00
tblTripsAndVMT	WorkerTripNumber	2,243.00	2,253.00
tblVehicleTrips	ST_TR	6.39	43.30
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	7.85
tblVehicleTrips	ST_TR	1.32	11.07
tblVehicleTrips	ST_TR	2.46	20.76
tblVehicleTrips	ST_TR	20.87	1.73

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tblVehicleTrips	ST_TR	8.19	35.11
tblVehicleTrips	ST_TR	9.91	4.78
tblVehicleTrips	ST_TR	42.04	69.69
tblVehicleTrips	SU_TR	5.86	43.30
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	7.85
tblVehicleTrips	SU_TR	0.68	11.07
tblVehicleTrips	SU_TR	1.05	20.76
tblVehicleTrips	SU_TR	26.73	1.73
tblVehicleTrips	SU_TR	5.95	35.11
tblVehicleTrips	SU_TR	8.62	4.78
tblVehicleTrips	SU_TR	20.43	69.69
tblVehicleTrips	WD_TR	6.65	43.30
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	7.85
tblVehicleTrips	WD_TR	6.97	11.07
tblVehicleTrips	WD_TR	11.03	20.76
tblVehicleTrips	WD_TR	32.93	1.73
tblVehicleTrips	WD_TR	8.17	35.11
tblVehicleTrips	WD_TR	9.52	4.78
tblVehicleTrips	WD_TR	44.32	69.69
tblWoodstoves	NumberCatalytic	37.25	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberCatalytic	10.55	0.00
tblWoodstoves	NumberNoncatalytic	37.25	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	10.55	0.00

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tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

9051 Morena Existing Buildout - San Diego County, Summer

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					
2021	12.0342	101.3111	96.4187	0.4206	23.7475	1.2520	24.9996	6.4175	1.1774	7.5949	0.0000	43,453.3575	43,453.3575	2.7510	0.0000	43,522.1326
Maximum	12.0342	101.3111	96.4187	0.4206	23.7475	1.2520	24.9996	6.4175	1.1774	7.5949	0.0000	43,453.3575	43,453.3575	2.7510	0.0000	43,522.1326

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					
2021	12.0342	101.3111	96.4187	0.4206	23.7475	1.2520	24.9996	6.4175	1.1774	7.5949	0.0000	43,453.3575	43,453.3575	2.7510	0.0000	43,522.1326
Maximum	12.0342	101.3111	96.4187	0.4206	23.7475	1.2520	24.9996	6.4175	1.1774	7.5949	0.0000	43,453.3575	43,453.3575	2.7510	0.0000	43,522.1326

[illegible]

9051 Morena Existing Buildout - San Diego County, Summer

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	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9
Energy	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
Mobile	83.4900	372.6831	949.8076	4.1274	475.6592	2.0414	477.7007	127.0802	1.8972	128.9773		424,171.3 082	424,171.3 082	19.9900		424,671.0 593
Total	501.8427	392.1694	1,393.405 0	4.7788	475.6592	51.7163	527.3755	127.0802	51.5720	178.6522	4,722.716 1	442,597.6 606	447,320.3 766	20.4828	0.7518	448,056.4 830

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	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9
Energy	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
Mobile	83.4900	372.6831	949.8076	4.1274	475.6592	2.0414	477.7007	127.0802	1.8972	128.9773		424,171.3 082	424,171.3 082	19.9900		424,671.0 593
Total	501.8427	392.1694	1,393.405 0	4.7788	475.6592	51.7163	527.3755	127.0802	51.5720	178.6522	4,722.716 1	442,597.6 606	447,320.3 766	20.4828	0.7518	448,056.4 830

9051 Morena Existing Buildout - San Diego 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
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	Building Construction	Building Construction	12/1/2021	12/2/2021	5	2	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 28.03****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

9051 Morena Existing Buildout - San Diego County, Summer

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
Building Construction	9	2,253.00	774.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Building Construction - 2021****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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

9051 Morena Existing Buildout - San Diego County, Summer

3.2 Building Construction - 2021**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	2.3404	78.8161	20.0853	0.2096	5.2397	0.1655	5.4052	1.5083	0.1583	1.6667		22,550.6406	22,550.6406	1.6113		22,590.9235
Worker	7.7929	5.0630	59.7582	0.1841	18.5079	0.1279	18.6357	4.9092	0.1178	5.0269		18,349.3530	18,349.3530	0.5237		18,362.4448
Total	10.1333	83.8790	79.8435	0.3937	23.7475	0.2934	24.0409	6.4175	0.2761	6.6936		40,899.9936	40,899.9936	2.1350		40,953.3684

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

9051 Morena Existing Buildout - San Diego County, Summer

3.2 Building Construction - 2021**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	2.3404	78.8161	20.0853	0.2096	5.2397	0.1655	5.4052	1.5083	0.1583	1.6667		22,550.64 06	22,550.64 06	1.6113		22,590.92 35
Worker	7.7929	5.0630	59.7582	0.1841	18.5079	0.1279	18.6357	4.9092	0.1178	5.0269		18,349.35 30	18,349.35 30	0.5237		18,362.44 48
Total	10.1333	83.8790	79.8435	0.3937	23.7475	0.2934	24.0409	6.4175	0.2761	6.6936		40,899.99 36	40,899.99 36	2.1350		40,953.36 84

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Existing Buildout - San Diego 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	83.4900	372.6831	949.8076	4.1274	475.6592	2.0414	477.7007	127.0802	1.8972	128.9773		424,171.3082	424,171.3082	19.9900		424,671.0593
Unmitigated	83.4900	372.6831	949.8076	4.1274	475.6592	2.0414	477.7007	127.0802	1.8972	128.9773		424,171.3082	424,171.3082	19.9900		424,671.0593

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	32,258.50	32,258.50	32,258.50	92,107,803	92,107,803
City Park	0.00	0.00	0.00		
Condo/Townhouse	314.00	314.00	314.00	896,565	896,565
General Light Industry	18,470.52	18,470.52	18,470.52	53,924,878	53,924,878
General Office Building	12,081.70	12,081.70	12,081.70	28,872,270	28,872,270
Health Club	42.51	42.51	42.51	73,436	73,436
Hotel	947.97	947.97	947.97	1,801,077	1,801,077
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,008.58	1,008.58	1,008.58	2,879,802	2,879,802
Strip Mall	28,475.33	28,475.33	28,475.33	43,852,955	43,852,955
Total	93,599.10	93,599.10	93,599.10	224,408,788	224,408,788

4.3 Trip Type Information

9051 Morena Existing Buildout - San Diego County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9051 Morena Existing Buildout - San Diego 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					
NaturalGas Mitigated	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3032	0.2901	15,915.3419
NaturalGas Unmitigated	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3032	0.2901	15,915.3419

9051 Morena Existing Buildout - San Diego 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					
Apartments Mid Rise	11777.2	0.1270	1.0854	0.4619	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,385.5511	1,385.5511	0.0266	0.0254	1,393.7848
City Park	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
Condo/Townhouse	1600.35	0.0173	0.1475	0.0628	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.2760	188.2760	3.6100e-003	3.4500e-003	189.3949
General Light Industry	56181.2	0.6059	5.5080	4.6267	0.0331		0.4186	0.4186		0.4186	0.4186		6,609.5561	6,609.5561	0.1267	0.1212	6,648.8333
General Office Building	37564.8	0.4051	3.6828	3.0936	0.0221		0.2799	0.2799		0.2799	0.2799		4,419.3928	4,419.3928	0.0847	0.0810	4,445.6550
Health Club	827.302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	17388.5	0.1875	1.6025	0.6819	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.7003	2,045.7003	0.0392	0.0375	2,057.8568
Strip Mall	2697.9	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.3999	317.3999	6.0800e-003	5.8200e-003	319.2861
Total		1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3033	0.2901	15,915.3419

9051 Morena Existing Buildout - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11.7772	0.1270	1.0854	0.4619	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,385.5511	1,385.5511	0.0266	0.0254	1,393.7848
City Park	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
Condo/Townhouse	1.60035	0.0173	0.1475	0.0628	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.2760	188.2760	3.6100e-003	3.4500e-003	189.3949
General Light Industry	56.1812	0.6059	5.5080	4.6267	0.0331		0.4186	0.4186		0.4186	0.4186		6,609.5561	6,609.5561	0.1267	0.1212	6,648.8333
General Office Building	37.5648	0.4051	3.6828	3.0936	0.0221		0.2799	0.2799		0.2799	0.2799		4,419.3928	4,419.3928	0.0847	0.0810	4,445.6550
Health Club	0.827302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6.444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	17.3885	0.1875	1.6025	0.6819	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.7003	2,045.7003	0.0392	0.0375	2,057.8568
Strip Mall	2.6979	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.3999	317.3999	6.0800e-003	5.8200e-003	319.2861
Total		1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3033	0.2901	15,915.3419

6.0 Area Detail**6.1 Mitigation Measures Area**

9051 Morena Existing Buildout - San Diego 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	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9
Unmitigated	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9

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	12.5023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.6124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	318.3140	5.5357	351.6889	0.5679		48.2162	48.2162		48.2162	48.2162	4,722.716 1	2,456.470 6	7,179.186 7	0.0471	0.4618	7,317.963 9
Landscaping	2.4737	0.9472	82.1608	4.3600e-003		0.4567	0.4567		0.4567	0.4567		148.5581	148.5581	0.1424		152.1180
Total	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9

9051 Morena Existing Buildout - San Diego County, Summer

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	12.5023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.6124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	318.3140	5.5357	351.6889	0.5679		48.2162	48.2162		48.2162	48.2162	4,722.716 1	2,456.470 6	7,179.186 7	0.0471	0.4618	7,317.963 9
Landscaping	2.4737	0.9472	82.1608	4.3600e-003		0.4567	0.4567		0.4567	0.4567		148.5581	148.5581	0.1424		152.1180
Total	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Existing Buildout - San Diego County, Summer

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

9051 Morena Existing Buildout - San Diego County, Winter

9051 Morena Existing Buildout

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	581.97	1000sqft	23.20	581,968.00	0
General Light Industry	1,668.52	1000sqft	78.48	1,668,523.00	0
Other Asphalt Surfaces	28.03	Acre	28.03	1,220,986.80	0
City Park	3.01	Acre	3.01	106,722.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	745.00	Dwelling Unit	47.17	745,000.00	1989
Condo/Townhouse	40.00	Dwelling Unit	3.70	40,000.00	107
Single Family Housing	211.00	Dwelling Unit	13.11	379,800.00	563
Strip Mall	408.60	1000sqft	21.99	408,603.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

9051 Morena Existing Buildout - San Diego County, Winter

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - Default

Solid Waste -

Area Mitigation - Placeworks CalEEMod Assumptions

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	4,650.00	2.00
tblFireplaces	NumberGas	409.75	0.00
tblFireplaces	NumberGas	22.00	0.00
tblFireplaces	NumberGas	116.05	116.00
tblFireplaces	NumberNoFireplace	74.50	745.00
tblFireplaces	NumberNoFireplace	4.00	40.00
tblFireplaces	NumberNoFireplace	21.10	21.00
tblFireplaces	NumberWood	260.75	0.00
tblFireplaces	NumberWood	14.00	0.00
tblFireplaces	NumberWood	73.85	74.00

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tblLandUse	LandUseSquareFeet	581,970.00	581,968.00
tblLandUse	LandUseSquareFeet	1,668,520.00	1,668,523.00
tblLandUse	LandUseSquareFeet	131,115.60	106,722.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	408,600.00	408,603.00
tblLandUse	LotAcreage	13.36	23.20
tblLandUse	LotAcreage	38.30	78.48
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	19.61	47.17
tblLandUse	LotAcreage	2.50	3.70
tblLandUse	LotAcreage	68.51	13.11
tblLandUse	LotAcreage	9.38	21.99
tblLandUse	Population	2,131.00	1,989.00
tblLandUse	Population	114.00	107.00
tblLandUse	Population	603.00	563.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	VendorTripNumber	770.00	774.00
tblTripsAndVMT	WorkerTripNumber	2,243.00	2,253.00
tblVehicleTrips	ST_TR	6.39	43.30
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	7.85
tblVehicleTrips	ST_TR	1.32	11.07
tblVehicleTrips	ST_TR	2.46	20.76
tblVehicleTrips	ST_TR	20.87	1.73

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tblVehicleTrips	ST_TR	8.19	35.11
tblVehicleTrips	ST_TR	9.91	4.78
tblVehicleTrips	ST_TR	42.04	69.69
tblVehicleTrips	SU_TR	5.86	43.30
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	7.85
tblVehicleTrips	SU_TR	0.68	11.07
tblVehicleTrips	SU_TR	1.05	20.76
tblVehicleTrips	SU_TR	26.73	1.73
tblVehicleTrips	SU_TR	5.95	35.11
tblVehicleTrips	SU_TR	8.62	4.78
tblVehicleTrips	SU_TR	20.43	69.69
tblVehicleTrips	WD_TR	6.65	43.30
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	7.85
tblVehicleTrips	WD_TR	6.97	11.07
tblVehicleTrips	WD_TR	11.03	20.76
tblVehicleTrips	WD_TR	32.93	1.73
tblVehicleTrips	WD_TR	8.17	35.11
tblVehicleTrips	WD_TR	9.52	4.78
tblVehicleTrips	WD_TR	44.32	69.69
tblWoodstoves	NumberCatalytic	37.25	0.00
tblWoodstoves	NumberCatalytic	2.00	0.00
tblWoodstoves	NumberCatalytic	10.55	0.00
tblWoodstoves	NumberNoncatalytic	37.25	0.00
tblWoodstoves	NumberNoncatalytic	2.00	0.00
tblWoodstoves	NumberNoncatalytic	10.55	0.00

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tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

9051 Morena Existing Buildout - San Diego County, Winter

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					
2021	13.2053	101.7215	95.1124	0.4040	23.7475	1.2587	25.0062	6.4175	1.1837	7.6012	0.0000	41,746.2346	41,746.2346	2.8222	0.0000	41,816.7904
Maximum	13.2053	101.7215	95.1124	0.4040	23.7475	1.2587	25.0062	6.4175	1.1837	7.6012	0.0000	41,746.2346	41,746.2346	2.8222	0.0000	41,816.7904

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					
2021	13.2053	101.7215	95.1124	0.4040	23.7475	1.2587	25.0062	6.4175	1.1837	7.6012	0.0000	41,746.2346	41,746.2346	2.8222	0.0000	41,816.7904
Maximum	13.2053	101.7215	95.1124	0.4040	23.7475	1.2587	25.0062	6.4175	1.1837	7.6012	0.0000	41,746.2346	41,746.2346	2.8222	0.0000	41,816.7904

[illegible]

9051 Morena Existing Buildout - San Diego County, Winter

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	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9
Energy	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
Mobile	80.8360	377.9761	936.1631	3.9214	475.6592	2.0474	477.7066	127.0802	1.9029	128.9831		403,221.0 674	403,221.0 674	20.1721		403,725.3 698
Total	499.1887	397.4624	1,379.760 4	4.5727	475.6592	51.7223	527.3815	127.0802	51.5777	178.6579	4,722.716 1	421,647.4 197	426,370.1 358	20.6648	0.7518	427,110.7 935

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	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9
Energy	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.32 36	15,821.32 36	0.3032	0.2901	15,915.34 19
Mobile	80.8360	377.9761	936.1631	3.9214	475.6592	2.0474	477.7066	127.0802	1.9029	128.9831		403,221.0 674	403,221.0 674	20.1721		403,725.3 698
Total	499.1887	397.4624	1,379.760 4	4.5727	475.6592	51.7223	527.3815	127.0802	51.5777	178.6579	4,722.716 1	421,647.4 197	426,370.1 358	20.6648	0.7518	427,110.7 935

9051 Morena Existing Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	12/1/2021	12/2/2021	5	2	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 28.03****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

9051 Morena Existing Buildout - San Diego County, Winter

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
Building Construction	9	2,253.00	774.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Building Construction - 2021****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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

9051 Morena Existing Buildout - San Diego County, Winter

3.2 Building Construction - 2021**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	2.4671	78.6063	22.3644	0.2043	5.2397	0.1722	5.4119	1.5083	0.1647	1.6730		21,967.6138	21,967.6138	1.7113		22,010.3974
Worker	8.8372	5.6831	56.1729	0.1729	18.5079	0.1279	18.6357	4.9092	0.1178	5.0269		17,225.2568	17,225.2568	0.4949		17,237.6288
Total	11.3043	84.2894	78.5372	0.3771	23.7475	0.3001	24.0476	6.4175	0.2825	6.7000		39,192.8707	39,192.8707	2.2062		39,248.0262

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

9051 Morena Existing Buildout - San Diego County, Winter

3.2 Building Construction - 2021**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	2.4671	78.6063	22.3644	0.2043	5.2397	0.1722	5.4119	1.5083	0.1647	1.6730		21,967.61 38	21,967.61 38	1.7113		22,010.39 74
Worker	8.8372	5.6831	56.1729	0.1729	18.5079	0.1279	18.6357	4.9092	0.1178	5.0269		17,225.25 68	17,225.25 68	0.4949		17,237.62 88
Total	11.3043	84.2894	78.5372	0.3771	23.7475	0.3001	24.0476	6.4175	0.2825	6.7000		39,192.87 07	39,192.87 07	2.2062		39,248.02 62

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Existing Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	80.8360	377.9761	936.1631	3.9214	475.6592	2.0474	477.7066	127.0802	1.9029	128.9831		403,221.0674	403,221.0674	20.1721		403,725.3698
Unmitigated	80.8360	377.9761	936.1631	3.9214	475.6592	2.0474	477.7066	127.0802	1.9029	128.9831		403,221.0674	403,221.0674	20.1721		403,725.3698

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	32,258.50	32,258.50	32,258.50	92,107,803	92,107,803
City Park	0.00	0.00	0.00		
Condo/Townhouse	314.00	314.00	314.00	896,565	896,565
General Light Industry	18,470.52	18,470.52	18,470.52	53,924,878	53,924,878
General Office Building	12,081.70	12,081.70	12,081.70	28,872,270	28,872,270
Health Club	42.51	42.51	42.51	73,436	73,436
Hotel	947.97	947.97	947.97	1,801,077	1,801,077
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,008.58	1,008.58	1,008.58	2,879,802	2,879,802
Strip Mall	28,475.33	28,475.33	28,475.33	43,852,955	43,852,955
Total	93,599.10	93,599.10	93,599.10	224,408,788	224,408,788

4.3 Trip Type Information

9051 Morena Existing Buildout - San Diego County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

9051 Morena Existing Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3032	0.2901	15,915.3419
NaturalGas Unmitigated	1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3032	0.2901	15,915.3419

9051 Morena Existing Buildout - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11777.2	0.1270	1.0854	0.4619	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,385.5511	1,385.5511	0.0266	0.0254	1,393.7848
City Park	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
Condo/Townhouse	1600.35	0.0173	0.1475	0.0628	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.2760	188.2760	3.6100e-003	3.4500e-003	189.3949
General Light Industry	56181.2	0.6059	5.5080	4.6267	0.0331		0.4186	0.4186		0.4186	0.4186		6,609.5561	6,609.5561	0.1267	0.1212	6,648.8333
General Office Building	37564.8	0.4051	3.6828	3.0936	0.0221		0.2799	0.2799		0.2799	0.2799		4,419.3928	4,419.3928	0.0847	0.0810	4,445.6550
Health Club	827.302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	17388.5	0.1875	1.6025	0.6819	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.7003	2,045.7003	0.0392	0.0375	2,057.8568
Strip Mall	2697.9	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.3999	317.3999	6.0800e-003	5.8200e-003	319.2861
Total		1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3033	0.2901	15,915.3419

9051 Morena Existing Buildout - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11.7772	0.1270	1.0854	0.4619	6.9300e-003		0.0878	0.0878		0.0878	0.0878		1,385.5511	1,385.5511	0.0266	0.0254	1,393.7848
City Park	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
Condo/Townhouse	1.60035	0.0173	0.1475	0.0628	9.4000e-004		0.0119	0.0119		0.0119	0.0119		188.2760	188.2760	3.6100e-003	3.4500e-003	189.3949
General Light Industry	56.1812	0.6059	5.5080	4.6267	0.0331		0.4186	0.4186		0.4186	0.4186		6,609.5561	6,609.5561	0.1267	0.1212	6,648.8333
General Office Building	37.5648	0.4051	3.6828	3.0936	0.0221		0.2799	0.2799		0.2799	0.2799		4,419.3928	4,419.3928	0.0847	0.0810	4,445.6550
Health Club	0.827302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6.444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	17.3885	0.1875	1.6025	0.6819	0.0102		0.1296	0.1296		0.1296	0.1296		2,045.7003	2,045.7003	0.0392	0.0375	2,057.8568
Strip Mall	2.6979	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.3999	317.3999	6.0800e-003	5.8200e-003	319.2861
Total		1.4503	13.0035	9.7478	0.0791		1.0020	1.0020		1.0020	1.0020		15,821.3236	15,821.3236	0.3033	0.2901	15,915.3419

6.0 Area Detail**6.1 Mitigation Measures Area**

9051 Morena Existing Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9
Unmitigated	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9

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	12.5023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.6124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	318.3140	5.5357	351.6889	0.5679		48.2162	48.2162		48.2162	48.2162	4,722.716 1	2,456.470 6	7,179.186 7	0.0471	0.4618	7,317.963 9
Landscaping	2.4737	0.9472	82.1608	4.3600e-003		0.4567	0.4567		0.4567	0.4567		148.5581	148.5581	0.1424		152.1180
Total	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9

9051 Morena Existing Buildout - San Diego County, Winter

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	12.5023					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	83.6124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	318.3140	5.5357	351.6889	0.5679		48.2162	48.2162		48.2162	48.2162	4,722.716 1	2,456.470 6	7,179.186 7	0.0471	0.4618	7,317.963 9
Landscaping	2.4737	0.9472	82.1608	4.3600e-003		0.4567	0.4567		0.4567	0.4567		148.5581	148.5581	0.1424		152.1180
Total	416.9024	6.4829	433.8496	0.5723		48.6728	48.6728		48.6728	48.6728	4,722.716 1	2,605.028 7	7,327.744 8	0.1895	0.4618	7,470.081 9

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Existing Buildout - San Diego County, Winter

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

Build-out of Adopted

9051 Morena Adopted Buildout - San Diego County, Winter

9051 Morena Adopted Buildout

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	576.91	1000sqft	23.06	576,913.00	0
General Light Industry	1,769.79	1000sqft	78.18	1,769,790.00	0
Enclosed Parking Structure	300.00	1000sqft	0.00	300,000.00	0
Other Asphalt Surfaces	17.01	Acre	17.01	740,955.60	0
City Park	3.01	Acre	3.01	131,116.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	1,239.00	Dwelling Unit	60.45	1,239,000.00	3308
Condo/Townhouse	27.00	Dwelling Unit	2.69	27,000.00	72
Single Family Housing	206.00	Dwelling Unit	11.76	370,800.00	550
Strip Mall	426.84	1000sqft	22.54	426,837.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

9051 Morena Adopted Buildout - San Diego County, Winter

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Adjusted to account for new and existing

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaCoating	Area_Nonresidential_Exterior	1418150	9518155
tblAreaCoating	Area_Nonresidential_Interior	4254449	28554464
tblConstructionPhase	NumDays	4,650.00	2.00
tblEnergyUse	LightingElect	2.83	3.41
tblEnergyUse	LightingElect	3.81	4.24
tblEnergyUse	LightingElect	2.83	3.52
tblEnergyUse	LightingElect	4.50	5.43
tblEnergyUse	LightingElect	6.22	6.57
tblEnergyUse	NT24E	3,054.10	3,019.08
tblEnergyUse	NT24E	3,795.01	3,126.41

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tblEnergyUse	NT24E	6,155.97	5,089.81
tblEnergyUse	NT24NG	4,180.00	4,003.74
tblEnergyUse	NT24NG	4,180.00	3,001.57
tblEnergyUse	NT24NG	4,180.00	5,819.00
tblEnergyUse	T24E	209.39	208.75
tblEnergyUse	T24E	227.22	257.40
tblEnergyUse	T24E	1.21	1.53
tblEnergyUse	T24E	4.66	5.43
tblEnergyUse	T24E	1.21	1.59
tblEnergyUse	T24E	4.78	6.29
tblEnergyUse	T24E	331.07	550.61
tblEnergyUse	T24E	3.18	3.44
tblEnergyUse	T24NG	3,248.74	3,038.89
tblEnergyUse	T24NG	10,202.85	11,601.59
tblEnergyUse	T24NG	4.31	4.92
tblEnergyUse	T24NG	15.99	17.74
tblEnergyUse	T24NG	4.31	5.04
tblEnergyUse	T24NG	47.27	50.49
tblEnergyUse	T24NG	19,206.92	24,260.55
tblEnergyUse	T24NG	1.14	1.19
tblFireplaces	NumberGas	681.45	481.00
tblFireplaces	NumberGas	14.85	0.00
tblFireplaces	NumberGas	113.30	74.00
tblFireplaces	NumberNoFireplace	123.90	758.00
tblFireplaces	NumberNoFireplace	2.70	0.00
tblFireplaces	NumberNoFireplace	20.60	21.00
tblFireplaces	NumberWood	433.65	0.00

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tblFireplaces	NumberWood	9.45	0.00
tblFireplaces	NumberWood	72.10	116.00
tblLandUse	LandUseSquareFeet	576,910.00	576,913.00
tblLandUse	LandUseSquareFeet	131,115.60	131,116.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	426,840.00	426,837.00
tblLandUse	LotAcreage	13.24	23.06
tblLandUse	LotAcreage	40.63	78.18
tblLandUse	LotAcreage	6.89	0.00
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	32.61	60.45
tblLandUse	LotAcreage	1.69	2.69
tblLandUse	LotAcreage	66.88	11.76
tblLandUse	LotAcreage	9.80	22.54
tblLandUse	Population	3,544.00	3,308.00
tblLandUse	Population	77.00	72.00
tblLandUse	Population	589.00	550.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	VendorTripNumber	814.00	3,470.00
tblTripsAndVMT	WorkerTripNumber	2,569.00	9,373.00
tblVehicleTrips	ST_TR	6.39	14.78
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	10.68
tblVehicleTrips	ST_TR	1.32	15.50

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tblVehicleTrips	ST_TR	2.46	28.90
tblVehicleTrips	ST_TR	20.87	2.39
tblVehicleTrips	ST_TR	8.19	48.46
tblVehicleTrips	ST_TR	9.91	6.60
tblVehicleTrips	ST_TR	42.04	95.03
tblVehicleTrips	SU_TR	5.86	14.78
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	10.68
tblVehicleTrips	SU_TR	0.68	15.50
tblVehicleTrips	SU_TR	1.05	28.90
tblVehicleTrips	SU_TR	26.73	2.39
tblVehicleTrips	SU_TR	5.95	48.46
tblVehicleTrips	SU_TR	8.62	6.60
tblVehicleTrips	SU_TR	20.43	95.03
tblVehicleTrips	WD_TR	6.65	14.78
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	10.68
tblVehicleTrips	WD_TR	6.97	15.50
tblVehicleTrips	WD_TR	11.03	28.90
tblVehicleTrips	WD_TR	32.93	2.39
tblVehicleTrips	WD_TR	8.17	48.46
tblVehicleTrips	WD_TR	9.52	6.60
tblVehicleTrips	WD_TR	44.32	95.03
tblWater	IndoorWaterUseRate	80,725,837.74	669,350,985.00
tblWater	IndoorWaterUseRate	1,759,158.69	0.00
tblWater	IndoorWaterUseRate	409,263,937.50	0.00
tblWater	IndoorWaterUseRate	102,536,376.55	0.00

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tblWater	IndoorWaterUseRate	1,453,147.05	0.00
tblWater	IndoorWaterUseRate	684,902.79	0.00
tblWater	IndoorWaterUseRate	13,421,729.28	0.00
tblWater	IndoorWaterUseRate	31,617,115.07	0.00
tblWater	OutdoorWaterUseRate	50,892,375.97	153,640,641.00
tblWater	OutdoorWaterUseRate	3,586,358.86	0.00
tblWater	OutdoorWaterUseRate	1,109,034.83	0.00
tblWater	OutdoorWaterUseRate	62,844,875.95	0.00
tblWater	OutdoorWaterUseRate	890,638.51	0.00
tblWater	OutdoorWaterUseRate	76,100.31	0.00
tblWater	OutdoorWaterUseRate	8,461,524.98	0.00
tblWater	OutdoorWaterUseRate	19,378,231.82	0.00
tblWoodstoves	NumberCatalytic	61.95	0.00
tblWoodstoves	NumberCatalytic	1.35	0.00
tblWoodstoves	NumberCatalytic	10.30	0.00
tblWoodstoves	NumberNoncatalytic	61.95	0.00
tblWoodstoves	NumberNoncatalytic	1.35	0.00
tblWoodstoves	NumberNoncatalytic	10.30	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

9051 Morena Adopted Buildout - San Diego County, Winter

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					
2018	66.3986	513.6222	455.8917	1.7630	100.4879	5.6894	106.1773	27.1855	5.3986	32.5842	0.0000	182,444.4567	182,444.4567	12.1068	0.0000	182,747.1261
Maximum	66.3986	513.6222	455.8917	1.7630	100.4879	5.6894	106.1773	27.1855	5.3986	32.5842	0.0000	182,444.4567	182,444.4567	12.1068	0.0000	182,747.1261

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					
2018	66.3986	513.6222	455.8917	1.7630	100.4879	5.6894	106.1773	27.1855	5.3986	32.5842	0.0000	182,444.4567	182,444.4567	12.1068	0.0000	182,747.1261
Maximum	66.3986	513.6222	455.8917	1.7630	100.4879	5.6894	106.1773	27.1855	5.3986	32.5842	0.0000	182,444.4567	182,444.4567	12.1068	0.0000	182,747.1261

[illegible]

9051 Morena Adopted Buildout - San Diego County, Winter

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	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253
Energy	1.5701	14.0265	10.1794	0.0856		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510
Mobile	89.6114	419.9470	1,022.3184	4.2439	512.9011	2.2239	515.1250	137.0300	2.0668	139.0967		436,441.6044	436,441.6044	21.9696		436,990.8455
Total	751.5340	450.2403	1,707.7622	5.2657	512.9011	80.0658	592.9669	137.0300	79.9087	216.9387	7,403.1766	465,541.8709	472,945.0475	22.7331	1.1827	473,865.8217

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	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253
Energy	1.5701	14.0265	10.1794	0.0856		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510
Mobile	89.6114	419.9470	1,022.3184	4.2439	512.9011	2.2239	515.1250	137.0300	2.0668	139.0967		436,441.6044	436,441.6044	21.9696		436,990.8455
Total	751.5340	450.2403	1,707.7622	5.2657	512.9011	80.0658	592.9669	137.0300	79.9087	216.9387	7,403.1766	465,541.8709	472,945.0475	22.7331	1.1827	473,865.8217

9051 Morena Adopted Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	4/18/2018	4/19/2018	5	2	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 17.01****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

9051 Morena Adopted Buildout - San Diego County, Winter

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
Building Construction	9	9,373.00	3,470.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Adopted Buildout - San Diego County, Winter

3.2 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	18.6519	457.9639	133.9451	0.9431	23.4909	3.6351	27.1260	6.7623	3.4775	10.2399		100,872.1857	100,872.1857	8.7286		101,090.4012
Worker	45.0673	32.2683	304.3662	0.7931	76.9970	0.5544	77.5514	20.4232	0.5112	20.9344		78,951.3360	78,951.3360	2.7360		79,019.7366
Total	63.7192	490.2322	438.3113	1.7361	100.4879	4.1896	104.6774	27.1855	3.9887	31.1742		179,823.5216	179,823.5216	11.4647		180,110.1379

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Adopted Buildout - San Diego County, Winter

3.2 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	18.6519	457.9639	133.9451	0.9431	23.4909	3.6351	27.1260	6.7623	3.4775	10.2399		100,872.1857	100,872.1857	8.7286		101,090.4012
Worker	45.0673	32.2683	304.3662	0.7931	76.9970	0.5544	77.5514	20.4232	0.5112	20.9344		78,951.3360	78,951.3360	2.7360		79,019.7366
Total	63.7192	490.2322	438.3113	1.7361	100.4879	4.1896	104.6774	27.1855	3.9887	31.1742		179,823.5216	179,823.5216	11.4647		180,110.1379

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Adopted Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	89.6114	419.9470	1,022.3184	4.2439	512.9011	2.2239	515.1250	137.0300	2.0668	139.0967		436,441.6044	436,441.6044	21.9696		436,990.8455
Unmitigated	89.6114	419.9470	1,022.3184	4.2439	512.9011	2.2239	515.1250	137.0300	2.0668	139.0967		436,441.6044	436,441.6044	21.9696		436,990.8455

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	18,312.42	18,312.42	18,312.42	52,287,514	52,287,514
City Park	0.00	0.00	0.00		
Condo/Townhouse	288.36	288.36	288.36	823,355	823,355
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	27,431.75	27,431.75	27,431.75	80,087,285	80,087,285
General Office Building	16,672.70	16,672.70	16,672.70	39,843,629	39,843,629
Health Club	58.72	58.72	58.72	101,453	101,453
Hotel	1,308.42	1,308.42	1,308.42	2,485,907	2,485,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,359.60	1,359.60	1,359.60	3,882,070	3,882,070
Strip Mall	40,562.61	40,562.61	40,562.61	62,467,752	62,467,752
Total	105,994.57	105,994.57	105,994.57	241,978,967	241,978,967

4.3 Trip Type Information

9051 Morena Adopted Buildout - San Diego County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking Structure	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

9051 Morena Adopted Buildout - San Diego County, Winter

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	1.5701	14.0265	10.1794	0.0856		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510
NaturalGas Unmitigated	1.5701	14.0265	10.1794	0.0856		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510

9051 Morena Adopted Buildout - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	23906.4	0.2578	2.2031	0.9375	0.0141		0.1781	0.1781		0.1781	0.1781		2,812.5120	2,812.5120	0.0539	0.0516	2,829.2254
City Park	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
Condo/Townhouse	1080.23	0.0117	0.0996	0.0424	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003		127.0863	127.0863	2.4400e-003	2.3300e-003	127.8415
Enclosed Parking Structure	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
General Light Industry	59009.2	0.6364	5.7852	4.8596	0.0347		0.4397	0.4397		0.4397	0.4397		6,942.2544	6,942.2544	0.1331	0.1273	6,983.5088
General Office Building	34678	0.3740	3.3998	2.8558	0.0204		0.2584	0.2584		0.2584	0.2584		4,079.7651	4,079.7651	0.0782	0.0748	4,104.0091
Health Club	827.302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	16976.4	0.1831	1.5645	0.6657	9.9900e-003		0.1265	0.1265		0.1265	0.1265		1,997.2240	1,997.2240	0.0383	0.0366	2,009.0925
Strip Mall	2666.27	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199		313.6788	313.6788	6.0100e-003	5.7500e-003	315.5428
Total		1.5701	14.0265	10.1794	0.0857		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510

9051 Morena Adopted Buildout - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	23.9064	0.2578	2.2031	0.9375	0.0141		0.1781	0.1781		0.1781	0.1781		2,812.5120	2,812.5120	0.0539	0.0516	2,829.2254
City Park	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
Condo/Townhouse	1.08023	0.0117	0.0996	0.0424	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003		127.0863	127.0863	2.4400e-003	2.3300e-003	127.8415
Enclosed Parking Structure	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
General Light Industry	59.0092	0.6364	5.7852	4.8596	0.0347		0.4397	0.4397		0.4397	0.4397		6,942.2544	6,942.2544	0.1331	0.1273	6,983.5088
General Office Building	34.678	0.3740	3.3998	2.8558	0.0204		0.2584	0.2584		0.2584	0.2584		4,079.7651	4,079.7651	0.0782	0.0748	4,104.0091
Health Club	0.827302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6.444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	16.9764	0.1831	1.5645	0.6657	9.9900e-003		0.1265	0.1265		0.1265	0.1265		1,997.2240	1,997.2240	0.0383	0.0366	2,009.0925
Strip Mall	2.66627	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199		313.6788	313.6788	6.0100e-003	5.7500e-003	315.5428
Total		1.5701	14.0265	10.1794	0.0857		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510

6.0 Area Detail**6.1 Mitigation Measures Area**

9051 Morena Adopted Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253
Unmitigated	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253

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	60.9022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.0998					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	499.7031	14.8677	553.9301	0.9297		76.0826	76.0826		76.0826	76.0826	7,403.1766	11,752.9412	19,156.1178	0.2253	0.8687	19,420.6196
Landscaping	3.6475	1.3990	121.3343	6.4400e-003		0.6746	0.6746		0.6746	0.6746		219.3573	219.3573	0.2099		224.6056
Total	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253

9051 Morena Adopted Buildout - San Diego County, Winter

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	60.9022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.0998					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	499.7031	14.8677	553.9301	0.9297		76.0826	76.0826		76.0826	76.0826	7,403.1766	11,752.9412	19,156.1178	0.2253	0.8687	19,420.6196
Landscaping	3.6475	1.3990	121.3343	6.4400e-003		0.6746	0.6746		0.6746	0.6746		219.3573	219.3573	0.2099		224.6056
Total	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Adopted Buildout - San Diego County, Winter

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

9051 Morena Adopted Buildout - San Diego County, Summer

9051 Morena Adopted Buildout

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	576.91	1000sqft	23.06	576,913.00	0
General Light Industry	1,769.79	1000sqft	78.18	1,769,790.00	0
Enclosed Parking Structure	300.00	1000sqft	0.00	300,000.00	0
Other Asphalt Surfaces	17.01	Acre	17.01	740,955.60	0
City Park	3.01	Acre	3.01	131,116.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	1,239.00	Dwelling Unit	60.45	1,239,000.00	3308
Condo/Townhouse	27.00	Dwelling Unit	2.69	27,000.00	72
Single Family Housing	206.00	Dwelling Unit	11.76	370,800.00	550
Strip Mall	426.84	1000sqft	22.54	426,837.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Adjusted to account for new and existing

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaCoating	Area_Nonresidential_Exterior	1418150	9518155
tblAreaCoating	Area_Nonresidential_Interior	4254449	28554464
tblConstructionPhase	NumDays	4,650.00	2.00
tblEnergyUse	LightingElect	2.83	3.41
tblEnergyUse	LightingElect	3.81	4.24
tblEnergyUse	LightingElect	2.83	3.52
tblEnergyUse	LightingElect	4.50	5.43
tblEnergyUse	LightingElect	6.22	6.57
tblEnergyUse	NT24E	3,054.10	3,019.08
tblEnergyUse	NT24E	3,795.01	3,126.41

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tblEnergyUse	NT24E	6,155.97	5,089.81
tblEnergyUse	NT24NG	4,180.00	4,003.74
tblEnergyUse	NT24NG	4,180.00	3,001.57
tblEnergyUse	NT24NG	4,180.00	5,819.00
tblEnergyUse	T24E	209.39	208.75
tblEnergyUse	T24E	227.22	257.40
tblEnergyUse	T24E	1.21	1.53
tblEnergyUse	T24E	4.66	5.43
tblEnergyUse	T24E	1.21	1.59
tblEnergyUse	T24E	4.78	6.29
tblEnergyUse	T24E	331.07	550.61
tblEnergyUse	T24E	3.18	3.44
tblEnergyUse	T24NG	3,248.74	3,038.89
tblEnergyUse	T24NG	10,202.85	11,601.59
tblEnergyUse	T24NG	4.31	4.92
tblEnergyUse	T24NG	15.99	17.74
tblEnergyUse	T24NG	4.31	5.04
tblEnergyUse	T24NG	47.27	50.49
tblEnergyUse	T24NG	19,206.92	24,260.55
tblEnergyUse	T24NG	1.14	1.19
tblFireplaces	NumberGas	681.45	481.00
tblFireplaces	NumberGas	14.85	0.00
tblFireplaces	NumberGas	113.30	74.00
tblFireplaces	NumberNoFireplace	123.90	758.00
tblFireplaces	NumberNoFireplace	2.70	0.00
tblFireplaces	NumberNoFireplace	20.60	21.00
tblFireplaces	NumberWood	433.65	0.00

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tblFireplaces	NumberWood	9.45	0.00
tblFireplaces	NumberWood	72.10	116.00
tblLandUse	LandUseSquareFeet	576,910.00	576,913.00
tblLandUse	LandUseSquareFeet	131,115.60	131,116.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	426,840.00	426,837.00
tblLandUse	LotAcreage	13.24	23.06
tblLandUse	LotAcreage	40.63	78.18
tblLandUse	LotAcreage	6.89	0.00
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	32.61	60.45
tblLandUse	LotAcreage	1.69	2.69
tblLandUse	LotAcreage	66.88	11.76
tblLandUse	LotAcreage	9.80	22.54
tblLandUse	Population	3,544.00	3,308.00
tblLandUse	Population	77.00	72.00
tblLandUse	Population	589.00	550.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	VendorTripNumber	814.00	3,470.00
tblTripsAndVMT	WorkerTripNumber	2,569.00	9,373.00
tblVehicleTrips	ST_TR	6.39	14.78
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	10.68
tblVehicleTrips	ST_TR	1.32	15.50

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tblVehicleTrips	ST_TR	2.46	28.90
tblVehicleTrips	ST_TR	20.87	2.39
tblVehicleTrips	ST_TR	8.19	48.46
tblVehicleTrips	ST_TR	9.91	6.60
tblVehicleTrips	ST_TR	42.04	95.03
tblVehicleTrips	SU_TR	5.86	14.78
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	10.68
tblVehicleTrips	SU_TR	0.68	15.50
tblVehicleTrips	SU_TR	1.05	28.90
tblVehicleTrips	SU_TR	26.73	2.39
tblVehicleTrips	SU_TR	5.95	48.46
tblVehicleTrips	SU_TR	8.62	6.60
tblVehicleTrips	SU_TR	20.43	95.03
tblVehicleTrips	WD_TR	6.65	14.78
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	10.68
tblVehicleTrips	WD_TR	6.97	15.50
tblVehicleTrips	WD_TR	11.03	28.90
tblVehicleTrips	WD_TR	32.93	2.39
tblVehicleTrips	WD_TR	8.17	48.46
tblVehicleTrips	WD_TR	9.52	6.60
tblVehicleTrips	WD_TR	44.32	95.03
tblWater	IndoorWaterUseRate	80,725,837.74	669,350,985.00
tblWater	IndoorWaterUseRate	1,759,158.69	0.00
tblWater	IndoorWaterUseRate	409,263,937.50	0.00
tblWater	IndoorWaterUseRate	102,536,376.55	0.00

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tblWater	IndoorWaterUseRate	1,453,147.05	0.00
tblWater	IndoorWaterUseRate	684,902.79	0.00
tblWater	IndoorWaterUseRate	13,421,729.28	0.00
tblWater	IndoorWaterUseRate	31,617,115.07	0.00
tblWater	OutdoorWaterUseRate	50,892,375.97	153,640,641.00
tblWater	OutdoorWaterUseRate	3,586,358.86	0.00
tblWater	OutdoorWaterUseRate	1,109,034.83	0.00
tblWater	OutdoorWaterUseRate	62,844,875.95	0.00
tblWater	OutdoorWaterUseRate	890,638.51	0.00
tblWater	OutdoorWaterUseRate	76,100.31	0.00
tblWater	OutdoorWaterUseRate	8,461,524.98	0.00
tblWater	OutdoorWaterUseRate	19,378,231.82	0.00
tblWoodstoves	NumberCatalytic	61.95	0.00
tblWoodstoves	NumberCatalytic	1.35	0.00
tblWoodstoves	NumberCatalytic	10.30	0.00
tblWoodstoves	NumberNoncatalytic	61.95	0.00
tblWoodstoves	NumberNoncatalytic	1.35	0.00
tblWoodstoves	NumberNoncatalytic	10.30	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

9051 Morena Adopted Buildout - San Diego County, Summer

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					
2018	60.4715	509.3077	459.5083	1.8386	100.4879	5.6299	106.1178	27.1855	5.3417	32.5273	0.0000	190,189.6766	190,189.6766	11.7206	0.0000	190,482.6918
Maximum	60.4715	509.3077	459.5083	1.8386	100.4879	5.6299	106.1178	27.1855	5.3417	32.5273	0.0000	190,189.6766	190,189.6766	11.7206	0.0000	190,482.6918

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					
2018	60.4715	509.3077	459.5083	1.8386	100.4879	5.6299	106.1178	27.1855	5.3417	32.5273	0.0000	190,189.6766	190,189.6766	11.7206	0.0000	190,482.6918
Maximum	60.4715	509.3077	459.5083	1.8386	100.4879	5.6299	106.1178	27.1855	5.3417	32.5273	0.0000	190,189.6766	190,189.6766	11.7206	0.0000	190,482.6918

[illegible]

9051 Morena Adopted Buildout - San Diego County, Summer

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	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.176 6	11,972.298 5	19,375.47 51	0.4352	0.8687	19,645.22 53
Energy	1.5701	14.0265	10.1794	0.0856		1.0848	1.0848		1.0848	1.0848		17,127.96 81	17,127.96 81	0.3283	0.3140	17,229.75 10
Mobile	92.5906	414.4554	1,034.426 1	4.4676	512.9011	2.2171	515.1183	137.0300	2.0603	139.0903		459,209.9 743	459,209.9 743	21.7461		459,753.6 259
Total	754.5132	444.7487	1,719.869 9	5.4894	512.9011	80.0590	592.9602	137.0300	79.9022	216.9322	7,403.176 6	488,310.2 408	495,713.4 174	22.5096	1.1827	496,628.6 022

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	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.176 6	11,972.298 5	19,375.47 51	0.4352	0.8687	19,645.22 53
Energy	1.5701	14.0265	10.1794	0.0856		1.0848	1.0848		1.0848	1.0848		17,127.96 81	17,127.96 81	0.3283	0.3140	17,229.75 10
Mobile	92.5906	414.4554	1,034.426 1	4.4676	512.9011	2.2171	515.1183	137.0300	2.0603	139.0903		459,209.9 743	459,209.9 743	21.7461		459,753.6 259
Total	754.5132	444.7487	1,719.869 9	5.4894	512.9011	80.0590	592.9602	137.0300	79.9022	216.9322	7,403.176 6	488,310.2 408	495,713.4 174	22.5096	1.1827	496,628.6 022

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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	Building Construction	Building Construction	4/18/2018	4/19/2018	5	2	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 17.01****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

9051 Morena Adopted Buildout - San Diego County, Summer

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
Building Construction	9	9,373.00	3,470.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Adopted Buildout - San Diego County, Summer

3.2 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	17.8953	457.1858	121.0652	0.9670	23.4909	3.5757	27.0665	6.7623	3.4206	10.1830		103,471.8833	103,471.8833	8.2009		103,676.9050
Worker	39.8966	28.7319	320.8626	0.8447	76.9970	0.5544	77.5514	20.4232	0.5112	20.9344		84,096.8582	84,096.8582	2.8776		84,168.7985
Total	57.7920	485.9177	441.9279	1.8116	100.4879	4.1301	104.6179	27.1855	3.9318	31.1173		187,568.7414	187,568.7414	11.0785		187,845.7035

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Adopted Buildout - San Diego County, Summer

3.2 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	17.8953	457.1858	121.0652	0.9670	23.4909	3.5757	27.0665	6.7623	3.4206	10.1830		103,471.8833	103,471.8833	8.2009		103,676.9050
Worker	39.8966	28.7319	320.8626	0.8447	76.9970	0.5544	77.5514	20.4232	0.5112	20.9344		84,096.8582	84,096.8582	2.8776		84,168.7985
Total	57.7920	485.9177	441.9279	1.8116	100.4879	4.1301	104.6179	27.1855	3.9318	31.1173		187,568.7414	187,568.7414	11.0785		187,845.7035

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Adopted Buildout - San Diego 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	92.5906	414.4554	1,034.426 1	4.4676	512.9011	2.2171	515.1183	137.0300	2.0603	139.0903		459,209.9 743	459,209.9 743	21.7461		459,753.6 259
Unmitigated	92.5906	414.4554	1,034.426 1	4.4676	512.9011	2.2171	515.1183	137.0300	2.0603	139.0903		459,209.9 743	459,209.9 743	21.7461		459,753.6 259

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	18,312.42	18,312.42	18,312.42	52,287,514	52,287,514
City Park	0.00	0.00	0.00		
Condo/Townhouse	288.36	288.36	288.36	823,355	823,355
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	27,431.75	27,431.75	27,431.75	80,087,285	80,087,285
General Office Building	16,672.70	16,672.70	16,672.70	39,843,629	39,843,629
Health Club	58.72	58.72	58.72	101,453	101,453
Hotel	1,308.42	1,308.42	1,308.42	2,485,907	2,485,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,359.60	1,359.60	1,359.60	3,882,070	3,882,070
Strip Mall	40,562.61	40,562.61	40,562.61	62,467,752	62,467,752
Total	105,994.57	105,994.57	105,994.57	241,978,967	241,978,967

4.3 Trip Type Information

9051 Morena Adopted Buildout - San Diego County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking Structure	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

9051 Morena Adopted Buildout - San Diego County, Summer

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	1.5701	14.0265	10.1794	0.0856		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510
NaturalGas Unmitigated	1.5701	14.0265	10.1794	0.0856		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510

9051 Morena Adopted Buildout - San Diego 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					
Apartments Mid Rise	23906.4	0.2578	2.2031	0.9375	0.0141		0.1781	0.1781		0.1781	0.1781		2,812.5120	2,812.5120	0.0539	0.0516	2,829.2254
City Park	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
Condo/Townhouse	1080.23	0.0117	0.0996	0.0424	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003		127.0863	127.0863	2.4400e-003	2.3300e-003	127.8415
Enclosed Parking Structure	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
General Light Industry	59009.2	0.6364	5.7852	4.8596	0.0347		0.4397	0.4397		0.4397	0.4397		6,942.2544	6,942.2544	0.1331	0.1273	6,983.5088
General Office Building	34678	0.3740	3.3998	2.8558	0.0204		0.2584	0.2584		0.2584	0.2584		4,079.7651	4,079.7651	0.0782	0.0748	4,104.0091
Health Club	827.302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	16976.4	0.1831	1.5645	0.6657	9.9900e-003		0.1265	0.1265		0.1265	0.1265		1,997.2240	1,997.2240	0.0383	0.0366	2,009.0925
Strip Mall	2666.27	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199		313.6788	313.6788	6.0100e-003	5.7500e-003	315.5428
Total		1.5701	14.0265	10.1794	0.0857		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510

9051 Morena Adopted Buildout - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	23.9064	0.2578	2.2031	0.9375	0.0141		0.1781	0.1781		0.1781	0.1781		2,812.5120	2,812.5120	0.0539	0.0516	2,829.2254
City Park	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
Condo/Townhouse	1.08023	0.0117	0.0996	0.0424	6.4000e-004		8.0500e-003	8.0500e-003		8.0500e-003	8.0500e-003		127.0863	127.0863	2.4400e-003	2.3300e-003	127.8415
Enclosed Parking Structure	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
General Light Industry	59.0092	0.6364	5.7852	4.8596	0.0347		0.4397	0.4397		0.4397	0.4397		6,942.2544	6,942.2544	0.1331	0.1273	6,983.5088
General Office Building	34.678	0.3740	3.3998	2.8558	0.0204		0.2584	0.2584		0.2584	0.2584		4,079.7651	4,079.7651	0.0782	0.0748	4,104.0091
Health Club	0.827302	8.9200e-003	0.0811	0.0681	4.9000e-004		6.1600e-003	6.1600e-003		6.1600e-003	6.1600e-003		97.3297	97.3297	1.8700e-003	1.7800e-003	97.9081
Hotel	6.444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	16.9764	0.1831	1.5645	0.6657	9.9900e-003		0.1265	0.1265		0.1265	0.1265		1,997.2240	1,997.2240	0.0383	0.0366	2,009.0925
Strip Mall	2.66627	0.0288	0.2614	0.2196	1.5700e-003		0.0199	0.0199		0.0199	0.0199		313.6788	313.6788	6.0100e-003	5.7500e-003	315.5428
Total		1.5701	14.0265	10.1794	0.0857		1.0848	1.0848		1.0848	1.0848		17,127.9681	17,127.9681	0.3283	0.3140	17,229.7510

6.0 Area Detail**6.1 Mitigation Measures Area**

9051 Morena Adopted Buildout - San Diego 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	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253
Unmitigated	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253

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	60.9022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.0998					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	499.7031	14.8677	553.9301	0.9297		76.0826	76.0826		76.0826	76.0826	7,403.1766	11,752.9412	19,156.1178	0.2253	0.8687	19,420.6196
Landscaping	3.6475	1.3990	121.3343	6.4400e-003		0.6746	0.6746		0.6746	0.6746		219.3573	219.3573	0.2099		224.6056
Total	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253

9051 Morena Adopted Buildout - San Diego County, Summer

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	60.9022					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	96.0998					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	499.7031	14.8677	553.9301	0.9297		76.0826	76.0826		76.0826	76.0826	7,403.1766	11,752.9412	19,156.1178	0.2253	0.8687	19,420.6196
Landscaping	3.6475	1.3990	121.3343	6.4400e-003		0.6746	0.6746		0.6746	0.6746		219.3573	219.3573	0.2099		224.6056
Total	660.3525	16.2668	675.2644	0.9362		76.7572	76.7572		76.7572	76.7572	7,403.1766	11,972.2985	19,375.4751	0.4352	0.8687	19,645.2253

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Adopted Buildout - San Diego County, Summer

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

9051 Morena Adopted Buildout - San Diego County, Annual

9051 Morena Adopted Buildout

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	576.91	1000sqft	23.06	576,913.00	0
General Light Industry	1,769.79	1000sqft	78.18	1,769,790.00	0
Enclosed Parking Structure	300.00	1000sqft	0.00	300,000.00	0
Other Asphalt Surfaces	17.01	Acre	17.01	740,955.60	0
City Park	3.01	Acre	3.01	131,116.00	0
Health Club	24.57	1000sqft	0.01	24,570.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	1,239.00	Dwelling Unit	60.45	1,239,000.00	3308
Condo/Townhouse	27.00	Dwelling Unit	2.69	27,000.00	72
Single Family Housing	206.00	Dwelling Unit	11.76	370,800.00	550
Strip Mall	426.84	1000sqft	22.54	426,837.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

9051 Morena Adopted Buildout - San Diego County, Annual

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Adjusted to account for new and existing

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaCoating	Area_Nonresidential_Exterior	1418150	9518155
tblAreaCoating	Area_Nonresidential_Interior	4254449	28554464
tblConstructionPhase	NumDays	4,650.00	2.00
tblEnergyUse	LightingElect	2.83	3.41
tblEnergyUse	LightingElect	3.81	4.24
tblEnergyUse	LightingElect	2.83	3.52
tblEnergyUse	LightingElect	4.50	5.43
tblEnergyUse	LightingElect	6.22	6.57
tblEnergyUse	NT24E	3,054.10	3,019.08
tblEnergyUse	NT24E	3,795.01	3,126.41

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tblEnergyUse	NT24E	6,155.97	5,089.81
tblEnergyUse	NT24NG	4,180.00	4,003.74
tblEnergyUse	NT24NG	4,180.00	3,001.57
tblEnergyUse	NT24NG	4,180.00	5,819.00
tblEnergyUse	T24E	209.39	208.75
tblEnergyUse	T24E	227.22	257.40
tblEnergyUse	T24E	1.21	1.53
tblEnergyUse	T24E	4.66	5.43
tblEnergyUse	T24E	1.21	1.59
tblEnergyUse	T24E	4.78	6.29
tblEnergyUse	T24E	331.07	550.61
tblEnergyUse	T24E	3.18	3.44
tblEnergyUse	T24NG	3,248.74	3,038.89
tblEnergyUse	T24NG	10,202.85	11,601.59
tblEnergyUse	T24NG	4.31	4.92
tblEnergyUse	T24NG	15.99	17.74
tblEnergyUse	T24NG	4.31	5.04
tblEnergyUse	T24NG	47.27	50.49
tblEnergyUse	T24NG	19,206.92	24,260.55
tblEnergyUse	T24NG	1.14	1.19
tblFireplaces	NumberGas	681.45	481.00
tblFireplaces	NumberGas	14.85	0.00
tblFireplaces	NumberGas	113.30	74.00
tblFireplaces	NumberNoFireplace	123.90	758.00
tblFireplaces	NumberNoFireplace	2.70	0.00
tblFireplaces	NumberNoFireplace	20.60	21.00
tblFireplaces	NumberWood	433.65	0.00

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tblFireplaces	NumberWood	9.45	0.00
tblFireplaces	NumberWood	72.10	116.00
tblLandUse	LandUseSquareFeet	576,910.00	576,913.00
tblLandUse	LandUseSquareFeet	131,115.60	131,116.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	426,840.00	426,837.00
tblLandUse	LotAcreage	13.24	23.06
tblLandUse	LotAcreage	40.63	78.18
tblLandUse	LotAcreage	6.89	0.00
tblLandUse	LotAcreage	0.56	0.01
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	32.61	60.45
tblLandUse	LotAcreage	1.69	2.69
tblLandUse	LotAcreage	66.88	11.76
tblLandUse	LotAcreage	9.80	22.54
tblLandUse	Population	3,544.00	3,308.00
tblLandUse	Population	77.00	72.00
tblLandUse	Population	589.00	550.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	VendorTripNumber	814.00	3,470.00
tblTripsAndVMT	WorkerTripNumber	2,569.00	9,373.00
tblVehicleTrips	ST_TR	6.39	14.78
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	10.68
tblVehicleTrips	ST_TR	1.32	15.50

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tblVehicleTrips	ST_TR	2.46	28.90
tblVehicleTrips	ST_TR	20.87	2.39
tblVehicleTrips	ST_TR	8.19	48.46
tblVehicleTrips	ST_TR	9.91	6.60
tblVehicleTrips	ST_TR	42.04	95.03
tblVehicleTrips	SU_TR	5.86	14.78
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	10.68
tblVehicleTrips	SU_TR	0.68	15.50
tblVehicleTrips	SU_TR	1.05	28.90
tblVehicleTrips	SU_TR	26.73	2.39
tblVehicleTrips	SU_TR	5.95	48.46
tblVehicleTrips	SU_TR	8.62	6.60
tblVehicleTrips	SU_TR	20.43	95.03
tblVehicleTrips	WD_TR	6.65	14.78
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	10.68
tblVehicleTrips	WD_TR	6.97	15.50
tblVehicleTrips	WD_TR	11.03	28.90
tblVehicleTrips	WD_TR	32.93	2.39
tblVehicleTrips	WD_TR	8.17	48.46
tblVehicleTrips	WD_TR	9.52	6.60
tblVehicleTrips	WD_TR	44.32	95.03
tblWater	IndoorWaterUseRate	80,725,837.74	669,350,985.00
tblWater	IndoorWaterUseRate	1,759,158.69	0.00
tblWater	IndoorWaterUseRate	409,263,937.50	0.00
tblWater	IndoorWaterUseRate	102,536,376.55	0.00

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tblWater	IndoorWaterUseRate	1,453,147.05	0.00
tblWater	IndoorWaterUseRate	684,902.79	0.00
tblWater	IndoorWaterUseRate	13,421,729.28	0.00
tblWater	IndoorWaterUseRate	31,617,115.07	0.00
tblWater	OutdoorWaterUseRate	50,892,375.97	153,640,641.00
tblWater	OutdoorWaterUseRate	3,586,358.86	0.00
tblWater	OutdoorWaterUseRate	1,109,034.83	0.00
tblWater	OutdoorWaterUseRate	62,844,875.95	0.00
tblWater	OutdoorWaterUseRate	890,638.51	0.00
tblWater	OutdoorWaterUseRate	76,100.31	0.00
tblWater	OutdoorWaterUseRate	8,461,524.98	0.00
tblWater	OutdoorWaterUseRate	19,378,231.82	0.00
tblWoodstoves	NumberCatalytic	61.95	0.00
tblWoodstoves	NumberCatalytic	1.35	0.00
tblWoodstoves	NumberCatalytic	10.30	0.00
tblWoodstoves	NumberNoncatalytic	61.95	0.00
tblWoodstoves	NumberNoncatalytic	1.35	0.00
tblWoodstoves	NumberNoncatalytic	10.30	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

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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					
2018	0.0609	0.5183	0.4492	1.7800e-003	0.0982	5.6500e-003	0.1039	0.0266	5.3700e-003	0.0320	0.0000	167.5938	167.5938	0.0107	0.0000	167.8621
Maximum	0.0609	0.5183	0.4492	1.7800e-003	0.0982	5.6500e-003	0.1039	0.0266	5.3700e-003	0.0320	0.0000	167.5938	167.5938	0.0107	0.0000	167.8621

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					
2018	0.0609	0.5183	0.4492	1.7800e-003	0.0982	5.6500e-003	0.1039	0.0266	5.3700e-003	0.0320	0.0000	167.5938	167.5938	0.0107	0.0000	167.8621
Maximum	0.0609	0.5183	0.4492	1.7800e-003	0.0982	5.6500e-003	0.1039	0.0266	5.3700e-003	0.0320	0.0000	167.5938	167.5938	0.0107	0.0000	167.8621

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-18-2018	7-17-2018	0.4070	0.4070
		Highest	0.4070	0.4070

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	49.4690	0.7355	33.6312	0.0387		3.1801	3.1801		3.1801	3.1801	275.3580	455.0554	730.4134	0.0255	0.0323	740.6800
Energy	0.2865	2.5598	1.8577	0.0156		0.1980	0.1980		0.1980	0.1980	0.0000	11,010.8229	11,010.8229	0.3762	0.1235	11,057.0313
Mobile	15.9355	76.7999	183.7630	0.7802	91.1568	0.4036	91.5603	24.4016	0.3750	24.7766	0.0000	72,811.3305	72,811.3305	3.5847	0.0000	72,900.9470
Waste						0.0000	0.0000		0.0000	0.0000	840.8292	0.0000	840.8292	49.6916	0.0000	2,083.1187
Water						0.0000	0.0000		0.0000	0.0000	212.3542	2,161.6936	2,374.0478	21.8959	0.5339	3,080.5510
Total	65.6910	80.0952	219.2520	0.8346	91.1568	3.7816	94.9384	24.4016	3.7531	28.1547	1,328.5414	86,438.9025	87,767.4438	75.5738	0.6897	89,862.3279

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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	49.4690	0.7355	33.6312	0.0387		3.1801	3.1801		3.1801	3.1801	275.3580	455.0554	730.4134	0.0255	0.0323	740.6800
Energy	0.2865	2.5598	1.8577	0.0156		0.1980	0.1980		0.1980	0.1980	0.0000	11,010.8229	11,010.8229	0.3762	0.1235	11,057.0313
Mobile	15.9355	76.7999	183.7630	0.7802	91.1568	0.4036	91.5603	24.4016	0.3750	24.7766	0.0000	72,811.3305	72,811.3305	3.5847	0.0000	72,900.9470
Waste						0.0000	0.0000		0.0000	0.0000	840.8292	0.0000	840.8292	49.6916	0.0000	2,083.1187
Water						0.0000	0.0000		0.0000	0.0000	212.3542	2,161.6936	2,374.0478	21.8959	0.5339	3,080.5510
Total	65.6910	80.0952	219.2520	0.8346	91.1568	3.7816	94.9384	24.4016	3.7531	28.1547	1,328.5414	86,438.9025	87,767.4438	75.5738	0.6897	89,862.3279

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	4/18/2018	4/19/2018	5	2	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 17.01****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	9,373.00	3,470.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 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	tons/yr										MT/yr					
Off-Road	2.6800e-003	0.0234	0.0176	3.0000e-005		1.5000e-003	1.5000e-003		1.4100e-003	1.4100e-003	0.0000	2.3777	2.3777	5.8000e-004	0.0000	2.3922
Total	2.6800e-003	0.0234	0.0176	3.0000e-005		1.5000e-003	1.5000e-003		1.4100e-003	1.4100e-003	0.0000	2.3777	2.3777	5.8000e-004	0.0000	2.3922

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	0.0182	0.4632	0.1274	9.6000e-004	0.0230	3.6000e-003	0.0266	6.6500e-003	3.4400e-003	0.0101	0.0000	92.8776	92.8776	7.6500e-003	0.0000	93.0690
Worker	0.0401	0.0317	0.3042	8.0000e-004	0.0752	5.5000e-004	0.0757	0.0200	5.1000e-004	0.0205	0.0000	72.3385	72.3385	2.5000e-003	0.0000	72.4009
Total	0.0583	0.4949	0.4316	1.7600e-003	0.0982	4.1500e-003	0.1024	0.0266	3.9500e-003	0.0306	0.0000	165.2161	165.2161	0.0102	0.0000	165.4699

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3.2 Building Construction - 2018**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	2.6800e-003	0.0234	0.0176	3.0000e-005		1.5000e-003	1.5000e-003		1.4100e-003	1.4100e-003	0.0000	2.3777	2.3777	5.8000e-004	0.0000	2.3922
Total	2.6800e-003	0.0234	0.0176	3.0000e-005		1.5000e-003	1.5000e-003		1.4100e-003	1.4100e-003	0.0000	2.3777	2.3777	5.8000e-004	0.0000	2.3922

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	0.0182	0.4632	0.1274	9.6000e-004	0.0230	3.6000e-003	0.0266	6.6500e-003	3.4400e-003	0.0101	0.0000	92.8776	92.8776	7.6500e-003	0.0000	93.0690
Worker	0.0401	0.0317	0.3042	8.0000e-004	0.0752	5.5000e-004	0.0757	0.0200	5.1000e-004	0.0205	0.0000	72.3385	72.3385	2.5000e-003	0.0000	72.4009
Total	0.0583	0.4949	0.4316	1.7600e-003	0.0982	4.1500e-003	0.1024	0.0266	3.9500e-003	0.0306	0.0000	165.2161	165.2161	0.0102	0.0000	165.4699

4.0 Operational Detail - Mobile

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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	tons/yr										MT/yr					
Mitigated	15.9355	76.7999	183.7630	0.7802	91.1568	0.4036	91.5603	24.4016	0.3750	24.7766	0.0000	72,811.3305	72,811.3305	3.5847	0.0000	72,900.9470
Unmitigated	15.9355	76.7999	183.7630	0.7802	91.1568	0.4036	91.5603	24.4016	0.3750	24.7766	0.0000	72,811.3305	72,811.3305	3.5847	0.0000	72,900.9470

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	18,312.42	18,312.42	18312.42	52,287,514	52,287,514
City Park	0.00	0.00	0.00		
Condo/Townhouse	288.36	288.36	288.36	823,355	823,355
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	27,431.75	27,431.75	27431.75	80,087,285	80,087,285
General Office Building	16,672.70	16,672.70	16672.70	39,843,629	39,843,629
Health Club	58.72	58.72	58.72	101,453	101,453
Hotel	1,308.42	1,308.42	1308.42	2,485,907	2,485,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	1,359.60	1,359.60	1359.60	3,882,070	3,882,070
Strip Mall	40,562.61	40,562.61	40562.61	62,467,752	62,467,752
Total	105,994.57	105,994.57	105,994.57	241,978,967	241,978,967

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking Structure	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

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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	8,175.0957	8,175.0957	0.3218	0.0715	8,204.4528
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	8,175.0957	8,175.0957	0.3218	0.0715	8,204.4528
NaturalGas Mitigated	0.2865	2.5598	1.8577	0.0156		0.1980	0.1980		0.1980	0.1980	0.0000	2,835.7272	2,835.7272	0.0544	0.0520	2,852.5785
NaturalGas Unmitigated	0.2865	2.5598	1.8577	0.0156		0.1980	0.1980		0.1980	0.1980	0.0000	2,835.7272	2,835.7272	0.0544	0.0520	2,852.5785

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	8.72582e+006	0.0471	0.4021	0.1711	2.5700e-003		0.0325	0.0325		0.0325	0.0325	0.0000	465.6429	465.6429	8.9200e-003	8.5400e-003	468.4100
City Park	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
Condo/Townhouse	394285	2.1300e-003	0.0182	7.7300e-003	1.2000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	21.0406	21.0406	4.0000e-004	3.9000e-004	21.1656
Enclosed Parking Structure	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
General Light Industry	2.15383e+007	0.1161	1.0558	0.8869	6.3300e-003		0.0802	0.0802		0.0802	0.0802	0.0000	1,149.3681	1,149.3681	0.0220	0.0211	1,156.1982
General Office Building	1.26575e+007	0.0683	0.6205	0.5212	3.7200e-003		0.0472	0.0472		0.0472	0.0472	0.0000	675.4509	675.4509	0.0130	0.0124	679.4647
Health Club	301965	1.6300e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.1140	16.1140	3.1000e-004	3.0000e-004	16.2098
Hotel	2.35206e+006	0.0127	0.1153	0.0969	6.9000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	125.5149	125.5149	2.4100e-003	2.3000e-003	126.2608
Other 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	0.0000
Single Family Housing	6.19639e+006	0.0334	0.2855	0.1215	1.8200e-003		0.0231	0.0231		0.0231	0.0231	0.0000	330.6628	330.6628	6.3400e-003	6.0600e-003	332.6278
Strip Mall	973188	5.2500e-003	0.0477	0.0401	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	51.9330	51.9330	1.0000e-003	9.5000e-004	52.2417
Total		0.2865	2.5598	1.8577	0.0156		0.1980	0.1980		0.1980	0.1980	0.0000	2,835.7272	2,835.7272	0.0544	0.0520	2,852.5785

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	8.72582e+006	0.0471	0.4021	0.1711	2.5700e-003		0.0325	0.0325		0.0325	0.0325	0.0000	465.6429	465.6429	8.9200e-003	8.5400e-003	468.4100
City Park	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
Condo/Townhouse	394285	2.1300e-003	0.0182	7.7300e-003	1.2000e-004		1.4700e-003	1.4700e-003		1.4700e-003	1.4700e-003	0.0000	21.0406	21.0406	4.0000e-004	3.9000e-004	21.1656
Enclosed Parking Structure	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
General Light Industry	2.15383e+007	0.1161	1.0558	0.8869	6.3300e-003		0.0802	0.0802		0.0802	0.0802	0.0000	1,149.3681	1,149.3681	0.0220	0.0211	1,156.1982
General Office Building	1.26575e+007	0.0683	0.6205	0.5212	3.7200e-003		0.0472	0.0472		0.0472	0.0472	0.0000	675.4509	675.4509	0.0130	0.0124	679.4647
Health Club	301965	1.6300e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.1140	16.1140	3.1000e-004	3.0000e-004	16.2098
Hotel	2.35206e+006	0.0127	0.1153	0.0969	6.9000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	125.5149	125.5149	2.4100e-003	2.3000e-003	126.2608
Other 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	0.0000
Single Family Housing	6.19639e+006	0.0334	0.2855	0.1215	1.8200e-003		0.0231	0.0231		0.0231	0.0231	0.0000	330.6628	330.6628	6.3400e-003	6.0600e-003	332.6278
Strip Mall	973188	5.2500e-003	0.0477	0.0401	2.9000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	51.9330	51.9330	1.0000e-003	9.5000e-004	52.2417
Total		0.2865	2.5598	1.8577	0.0156		0.1980	0.1980		0.1980	0.1980	0.0000	2,835.7272	2,835.7272	0.0544	0.0520	2,852.5785

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	4.91793e+006	1,020.0029	0.0402	8.9200e-003	1,023.6658
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	118393	24.5552	9.7000e-004	2.1000e-004	24.6434
Enclosed Parking Structure	1.701e+006	352.7961	0.0139	3.0900e-003	354.0630
General Light Industry	1.62998e+007	3,380.6548	0.1331	0.0296	3,392.7948
General Office Building	8.44601e+006	1,751.7449	0.0690	0.0153	1,758.0355
Health Club	230467	47.8000	1.8800e-003	4.2000e-004	47.9716
Hotel	587729	121.8979	4.8000e-003	1.0700e-003	122.3357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.49335e+006	309.7279	0.0122	2.7100e-003	310.8402
Strip Mall	5.62144e+006	1,165.9161	0.0459	0.0102	1,170.1029
Total		8,175.0957	0.3218	0.0715	8,204.4528

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	4.91793e+006	1,020.0029	0.0402	8.9200e-003	1,023.6658
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	118393	24.5552	9.7000e-004	2.1000e-004	24.6434
Enclosed Parking Structure	1.701e+006	352.7961	0.0139	3.0900e-003	354.0630
General Light Industry	1.62998e+007	3,380.6548	0.1331	0.0296	3,392.7948
General Office Building	8.44601e+006	1,751.7449	0.0690	0.0153	1,758.0355
Health Club	230467	47.8000	1.8800e-003	4.2000e-004	47.9716
Hotel	587729	121.8979	4.8000e-003	1.0700e-003	122.3357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.49335e+006	309.7279	0.0122	2.7100e-003	310.8402
Strip Mall	5.62144e+006	1,165.9161	0.0459	0.0102	1,170.1029
Total		8,175.0957	0.3218	0.0715	8,204.4528

6.0 Area Detail**6.1 Mitigation Measures Area**

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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
Category	tons/yr										MT/yr					
Mitigated	49.4690	0.7355	33.6312	0.0387		3.1801	3.1801		3.1801	3.1801	275.3580	455.0554	730.4134	0.0255	0.0323	740.6800
Unmitigated	49.4690	0.7355	33.6312	0.0387		3.1801	3.1801		3.1801	3.1801	275.3580	455.0554	730.4134	0.0255	0.0323	740.6800

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	11.1146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.5382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	20.4878	0.6096	22.7111	0.0381		3.1194	3.1194		3.1194	3.1194	275.3580	437.1456	712.5037	8.3800e-003	0.0323	722.3417
Landscaping	0.3283	0.1259	10.9201	5.8000e-004		0.0607	0.0607		0.0607	0.0607	0.0000	17.9098	17.9098	0.0171	0.0000	18.3383
Total	49.4690	0.7355	33.6312	0.0387		3.1801	3.1801		3.1801	3.1801	275.3580	455.0554	730.4134	0.0255	0.0323	740.6800

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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	11.1146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	17.5382					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	20.4878	0.6096	22.7111	0.0381		3.1194	3.1194		3.1194	3.1194	275.3580	437.1456	712.5037	8.3800e-003	0.0323	722.3417
Landscaping	0.3283	0.1259	10.9201	5.8000e-004		0.0607	0.0607		0.0607	0.0607	0.0000	17.9098	17.9098	0.0171	0.0000	18.3383
Total	49.4690	0.7355	33.6312	0.0387		3.1801	3.1801		3.1801	3.1801	275.3580	455.0554	730.4134	0.0255	0.0323	740.6800

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,374.0478	21.8959	0.5339	3,080.5510
Unmitigated	2,374.0478	21.8959	0.5339	3,080.5510

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7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	669.351 / 153.641	2,374.0478	21.8959	0.5339	3,080.5510
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2,374.0478	21.8959	0.5339	3,080.5510

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	669.351 / 153.641	2,374.0478	21.8959	0.5339	3,080.5510
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2,374.0478	21.8959	0.5339	3,080.5510

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	840.8292	49.6916	0.0000	2,083.1187
Unmitigated	840.8292	49.6916	0.0000	2,083.1187

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	569.94	115.6927	6.8372	0.0000	286.6237
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Condo/Townhouse	12.42	2.5212	0.1490	0.0000	6.2460
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	2194.54	445.4718	26.3266	0.0000	1,103.6375
General Office Building	536.53	108.9107	6.4364	0.0000	269.8218
Health Club	140.05	28.4289	1.6801	0.0000	70.4314
Hotel	14.78	3.0002	0.1773	0.0000	7.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	225.5	45.7745	2.7052	0.0000	113.4043
Strip Mall	448.18	90.9765	5.3766	0.0000	225.3904
Total		840.8292	49.6916	0.0000	2,083.1187

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	569.94	115.6927	6.8372	0.0000	286.6237
City Park	0.26	0.0528	3.1200e-003	0.0000	0.1308
Condo/Townhouse	12.42	2.5212	0.1490	0.0000	6.2460
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	2194.54	445.4718	26.3266	0.0000	1,103.6375
General Office Building	536.53	108.9107	6.4364	0.0000	269.8218
Health Club	140.05	28.4289	1.6801	0.0000	70.4314
Hotel	14.78	3.0002	0.1773	0.0000	7.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	225.5	45.7745	2.7052	0.0000	113.4043
Strip Mall	448.18	90.9765	5.3766	0.0000	225.3904
Total		840.8292	49.6916	0.0000	2,083.1187

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

Build-out of Specific Plan

9051 Morena Proposed Buildout - San Diego County, Winter

9051 Morena Proposed Buildout

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	674.22	1000sqft	42.41	674,220.00	0
General Light Industry	1,194.87	1000sqft	51.78	1,194,872.00	0
Enclosed Parking Structure	300.00	1000sqft	0.00	300,000.00	0
Other Asphalt Surfaces	30.86	Acre	30.86	1,344,262.00	0
City Park	2.67	Acre	2.67	116,305.00	0
Health Club	13.22	1000sqft	0.10	13,225.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	5,964.00	Dwelling Unit	18.10	5,964,000.00	15924
Condo/Townhouse	3.00	Dwelling Unit	0.15	3,000.00	8
Single Family Housing	125.00	Dwelling Unit	6.29	225,000.00	334
Strip Mall	899.46	1000sqft	66.43	899,457.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

9051 Morena Proposed Buildout - San Diego County, Winter

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Adjusted to account for new and existing

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaCoating	Area_Nonresidential_Exterior	1409981	1404981
tblAreaCoating	Area_Nonresidential_Interior	4229942	4214942
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250
tblConstructionPhase	NumDays	4,650.00	2.00
tblEnergyUse	LightingElect	2.83	3.41
tblEnergyUse	LightingElect	3.81	4.24
tblEnergyUse	LightingElect	2.83	3.52

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tblEnergyUse	LightingElect	4.50	5.43
tblEnergyUse	LightingElect	6.22	6.57
tblEnergyUse	NT24E	3,054.10	3,019.08
tblEnergyUse	NT24E	3,795.01	3,126.41
tblEnergyUse	NT24E	6,155.97	5,089.81
tblEnergyUse	NT24NG	4,180.00	4,003.74
tblEnergyUse	NT24NG	4,180.00	3,001.57
tblEnergyUse	NT24NG	4,180.00	5,819.00
tblEnergyUse	T24E	209.39	208.75
tblEnergyUse	T24E	227.22	257.40
tblEnergyUse	T24E	1.21	1.53
tblEnergyUse	T24E	4.66	5.43
tblEnergyUse	T24E	1.21	1.59
tblEnergyUse	T24E	4.78	6.29
tblEnergyUse	T24E	331.07	550.61
tblEnergyUse	T24E	3.18	3.44
tblEnergyUse	T24NG	3,248.74	3,308.89
tblEnergyUse	T24NG	10,202.85	11,601.59
tblEnergyUse	T24NG	4.31	4.92
tblEnergyUse	T24NG	15.99	17.74
tblEnergyUse	T24NG	4.31	5.04
tblEnergyUse	T24NG	47.27	50.49
tblEnergyUse	T24NG	19,206.92	24,260.55
tblEnergyUse	T24NG	1.14	1.19
tblFireplaces	NumberGas	3,280.20	5,182.00
tblFireplaces	NumberGas	1.65	0.00
tblFireplaces	NumberGas	68.75	74.00

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tblFireplaces	NumberNoFireplace	596.40	782.00
tblFireplaces	NumberNoFireplace	0.30	0.00
tblFireplaces	NumberNoFireplace	12.50	21.00
tblFireplaces	NumberWood	2,087.40	0.00
tblFireplaces	NumberWood	1.05	0.00
tblFireplaces	NumberWood	43.75	116.00
tblLandUse	LandUseSquareFeet	1,194,870.00	1,194,872.00
tblLandUse	LandUseSquareFeet	1,344,261.60	1,344,262.00
tblLandUse	LandUseSquareFeet	116,305.20	116,305.00
tblLandUse	LandUseSquareFeet	13,220.00	13,225.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	899,460.00	899,457.00
tblLandUse	LotAcreage	15.48	42.41
tblLandUse	LotAcreage	27.43	51.78
tblLandUse	LotAcreage	6.89	0.00
tblLandUse	LotAcreage	0.30	0.10
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	156.95	18.10
tblLandUse	LotAcreage	0.19	0.15
tblLandUse	LotAcreage	40.58	6.29
tblLandUse	LotAcreage	20.65	66.43
tblLandUse	Population	17,057.00	15,924.00
tblLandUse	Population	9.00	8.00
tblLandUse	Population	358.00	334.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004

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tblTripsAndVMT	VendorTripNumber	1,402.00	1,400.00
tblTripsAndVMT	WorkerTripNumber	6,108.00	6,104.00
tblVehicleTrips	ST_TR	6.39	6.03
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	8.03
tblVehicleTrips	ST_TR	1.32	10.87
tblVehicleTrips	ST_TR	2.46	22.25
tblVehicleTrips	ST_TR	20.87	3.49
tblVehicleTrips	ST_TR	8.19	38.16
tblVehicleTrips	ST_TR	9.91	5.60
tblVehicleTrips	ST_TR	42.04	56.03
tblVehicleTrips	SU_TR	5.86	6.03
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	8.03
tblVehicleTrips	SU_TR	0.68	10.87
tblVehicleTrips	SU_TR	1.05	22.25
tblVehicleTrips	SU_TR	26.73	3.49
tblVehicleTrips	SU_TR	5.95	38.16
tblVehicleTrips	SU_TR	8.62	5.60
tblVehicleTrips	SU_TR	20.43	56.03
tblVehicleTrips	WD_TR	6.65	6.03
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	8.03
tblVehicleTrips	WD_TR	6.97	10.87
tblVehicleTrips	WD_TR	11.03	22.25
tblVehicleTrips	WD_TR	32.93	3.49
tblVehicleTrips	WD_TR	8.17	38.16

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tblVehicleTrips	WD_TR	9.52	5.60
tblVehicleTrips	WD_TR	44.32	56.03
tblWater	IndoorWaterUseRate	388,578,608.81	1,107,504,587.00
tblWater	IndoorWaterUseRate	195,462.08	0.00
tblWater	IndoorWaterUseRate	276,313,687.50	0.00
tblWater	IndoorWaterUseRate	119,831,647.57	0.00
tblWater	IndoorWaterUseRate	781,872.36	0.00
tblWater	IndoorWaterUseRate	684,902.79	0.00
tblWater	IndoorWaterUseRate	8,144,253.20	0.00
tblWater	IndoorWaterUseRate	66,625,270.17	0.00
tblWater	OutdoorWaterUseRate	244,973,470.77	473,591,675.00
tblWater	OutdoorWaterUseRate	3,181,255.20	0.00
tblWater	OutdoorWaterUseRate	123,226.09	0.00
tblWater	OutdoorWaterUseRate	73,445,203.35	0.00
tblWater	OutdoorWaterUseRate	479,212.09	0.00
tblWater	OutdoorWaterUseRate	76,100.31	0.00
tblWater	OutdoorWaterUseRate	5,134,420.50	0.00
tblWater	OutdoorWaterUseRate	40,834,843.01	0.00
tblWoodstoves	NumberCatalytic	298.20	0.00
tblWoodstoves	NumberCatalytic	0.15	0.00
tblWoodstoves	NumberCatalytic	6.25	0.00
tblWoodstoves	NumberNoncatalytic	298.20	0.00
tblWoodstoves	NumberNoncatalytic	0.15	0.00
tblWoodstoves	NumberNoncatalytic	6.25	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

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tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

9051 Morena Proposed Buildout - San Diego County, Winter

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					
2018	39.5540	229.1735	269.8347	0.9239	59.6205	3.3275	62.9480	16.0286	3.1459	19.1744	0.0000	94,734.3041	94,734.3041	5.9456	0.0000	94,882.9428
Maximum	39.5540	229.1735	269.8347	0.9239	59.6205	3.3275	62.9480	16.0286	3.1459	19.1744	0.0000	94,734.3041	94,734.3041	5.9456	0.0000	94,882.9428

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					
2018	39.5540	229.1735	269.8347	0.9239	59.6205	3.3275	62.9480	16.0286	3.1459	19.1744	0.0000	94,734.3041	94,734.3041	5.9456	0.0000	94,882.9428
Maximum	39.5540	229.1735	269.8347	0.9239	59.6205	3.3275	62.9480	16.0286	3.1459	19.1744	0.0000	94,734.3041	94,734.3041	5.9456	0.0000	94,882.9428

[illegible]

9051 Morena Proposed Buildout - San Diego County, Winter

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	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371
Energy	2.4026	21.0773	12.7429	0.1311		1.6600	1.6600		1.6600	1.6600		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580
Mobile	97.0864	455.5290	1,098.4997	4.5373	547.2227	2.3825	549.6052	146.1995	2.2141	148.4136		466,644.1237	466,644.1237	23.5716		467,233.4145
Total	848.9914	575.2363	2,199.5064	6.1224	547.2227	89.2182	636.4409	146.1995	89.0498	235.2493	7,403.1766	605,063.0282	612,466.2048	27.0706	3.1743	614,088.9096

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	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371
Energy	2.4026	21.0773	12.7429	0.1311		1.6600	1.6600		1.6600	1.6600		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580
Mobile	97.0864	455.5290	1,098.4997	4.5373	547.2227	2.3825	549.6052	146.1995	2.2141	148.4136		466,644.1237	466,644.1237	23.5716		467,233.4145
Total	848.9914	575.2363	2,199.5064	6.1224	547.2227	89.2182	636.4409	146.1995	89.0498	235.2493	7,403.1766	605,063.0282	612,466.2048	27.0706	3.1743	614,088.9096

9051 Morena Proposed Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	4/18/2018	4/19/2018	5	2	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 30.86****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

9051 Morena Proposed Buildout - San Diego County, Winter

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
Building Construction	9	6,104.00	1,400.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Proposed Buildout - San Diego County, Winter

3.2 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	7.5253	184.7693	54.0412	0.3805	9.4776	1.4666	10.9442	2.7283	1.4030	4.1314		40,697.7118	40,697.7118	3.5216		40,785.7527
Worker	29.3493	21.0142	198.2131	0.5165	50.1429	0.3611	50.5040	13.3002	0.3329	13.6331		51,415.6572	51,415.6572	1.7818		51,460.2019
Total	36.8745	205.7835	252.2543	0.8970	59.6205	1.8277	61.4482	16.0286	1.7359	17.7645		92,113.3690	92,113.3690	5.3034		92,245.9546

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Proposed Buildout - San Diego County, Winter

3.2 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	7.5253	184.7693	54.0412	0.3805	9.4776	1.4666	10.9442	2.7283	1.4030	4.1314		40,697.7118	40,697.7118	3.5216		40,785.7527
Worker	29.3493	21.0142	198.2131	0.5165	50.1429	0.3611	50.5040	13.3002	0.3329	13.6331		51,415.6572	51,415.6572	1.7818		51,460.2019
Total	36.8745	205.7835	252.2543	0.8970	59.6205	1.8277	61.4482	16.0286	1.7359	17.7645		92,113.3690	92,113.3690	5.3034		92,245.9546

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Proposed Buildout - San Diego County, Winter

	ROG	NOx	CO	SO2	Fugitive 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	97.0864	455.5290	1,098.4997	4.5373	547.2227	2.3825	549.6052	146.1995	2.2141	148.4136		466,644.1237	466,644.1237	23.5716		467,233.4145
Unmitigated	97.0864	455.5290	1,098.4997	4.5373	547.2227	2.3825	549.6052	146.1995	2.2141	148.4136		466,644.1237	466,644.1237	23.5716		467,233.4145

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	35,962.92	35,962.92	35,962.92	102,685,046	102,685,046
City Park	0.00	0.00	0.00		
Condo/Townhouse	24.09	24.09	24.09	68,784	68,784
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	12,988.24	12,988.24	12,988.24	37,919,302	37,919,302
General Office Building	15,001.40	15,001.40	15,001.40	35,849,626	35,849,626
Health Club	46.14	46.14	46.14	79,711	79,711
Hotel	1,030.32	1,030.32	1,030.32	1,957,537	1,957,537
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	700.00	700.00	700.00	1,998,712	1,998,712
Strip Mall	50,396.74	50,396.74	50,396.74	77,612,651	77,612,651
Total	116,149.84	116,149.84	116,149.84	258,171,369	258,171,369

4.3 Trip Type Information

9051 Morena Proposed Buildout - San Diego County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking Structure	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

9051 Morena Proposed Buildout - San Diego County, Winter

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	2.4026	21.0773	12.7429	0.1311		1.6600	1.6600		1.6600	1.6600		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580
NaturalGas Unmitigated	2.4026	21.0773	12.7429	0.1311		1.6600	1.6600		1.6600	1.6600		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580

9051 Morena Proposed Buildout - San Diego County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	119486	1.2886	11.0115	4.6857	0.0703		0.8903	0.8903		0.8903	0.8903		14,057.2201	14,057.2201	0.2694	0.2577	14,140.7551
City Park	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
Condo/Townhouse	120.026	1.2900e-003	0.0111	4.7100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.1207	14.1207	2.7000e-004	2.6000e-004	14.2046
Enclosed Parking Structure	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
General Light Industry	39840	0.4297	3.9059	3.2809	0.0234		0.2969	0.2969		0.2969	0.2969		4,687.0563	4,687.0563	0.0898	0.0859	4,714.9092
General Office Building	40527.1	0.4371	3.9732	3.3375	0.0238		0.3020	0.3020		0.3020	0.3020		4,767.8926	4,767.8926	0.0914	0.0874	4,796.2258
Health Club	445.302	4.8000e-003	0.0437	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3885	52.3885	1.0000e-003	9.6000e-004	52.6998
Hotel	6444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	10301.2	0.1111	0.9493	0.4040	6.0600e-003		0.0768	0.0768		0.0768	0.0768		1,211.9077	1,211.9077	0.0232	0.0222	1,219.1095
Strip Mall	5618.53	0.0606	0.5508	0.4627	3.3100e-003		0.0419	0.0419		0.0419	0.0419		661.0031	661.0031	0.0127	0.0121	664.9311
Total		2.4026	21.0773	12.7429	0.1311		1.6599	1.6599		1.6599	1.6599		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	119.486	1.2886	11.0115	4.6857	0.0703		0.8903	0.8903		0.8903	0.8903		14,057.2201	14,057.2201	0.2694	0.2577	14,140.7551
City Park	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
Condo/Townhouse	0.120026	1.2900e-003	0.0111	4.7100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.1207	14.1207	2.7000e-004	2.6000e-004	14.2046
Enclosed Parking Structure	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
General Light Industry	39.84	0.4297	3.9059	3.2809	0.0234		0.2969	0.2969		0.2969	0.2969		4,687.0563	4,687.0563	0.0898	0.0859	4,714.9092
General Office Building	40.5271	0.4371	3.9732	3.3375	0.0238		0.3020	0.3020		0.3020	0.3020		4,767.8926	4,767.8926	0.0914	0.0874	4,796.2258
Health Club	0.445302	4.8000e-003	0.0437	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3885	52.3885	1.0000e-003	9.6000e-004	52.6998
Hotel	6.444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	10.3012	0.1111	0.9493	0.4040	6.0600e-003		0.0768	0.0768		0.0768	0.0768		1,211.9077	1,211.9077	0.0232	0.0222	1,219.1095
Strip Mall	5.61853	0.0606	0.5508	0.4627	3.3100e-003		0.0419	0.0419		0.0419	0.0419		661.0031	661.0031	0.0127	0.0121	664.9311
Total		2.4026	21.0773	12.7429	0.1311		1.6599	1.6599		1.6599	1.6599		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580

6.0 Area Detail**6.1 Mitigation Measures Area**

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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
Category	lb/day										lb/day					
Mitigated	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371
Unmitigated	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371

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	32.2256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	193.4444					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	508.8285	92.8490	587.1137	1.4275		82.3874	82.3874		82.3874	82.3874	7,403.1766	111,303.5294	118,706.7060	2.1333	2.6938	119,562.7872
Landscaping	15.0038	5.7810	501.1501	0.0266		2.7883	2.7883		2.7883	2.7883		905.6683	905.6683	0.8633		927.2498
Total	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371

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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	32.2256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	193.4444					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	508.8285	92.8490	587.1137	1.4275		82.3874	82.3874		82.3874	82.3874	7,403.1766	111,303.5294	118,706.7060	2.1333	2.6938	119,562.7872
Landscaping	15.0038	5.7810	501.1501	0.0266		2.7883	2.7883		2.7883	2.7883		905.6683	905.6683	0.8633		927.2498
Total	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371

7.0 Water Detail**7.1 Mitigation Measures Water****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

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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

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San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	674.22	1000sqft	42.41	674,220.00	0
General Light Industry	1,194.87	1000sqft	51.78	1,194,872.00	0
Enclosed Parking Structure	300.00	1000sqft	0.00	300,000.00	0
Other Asphalt Surfaces	30.86	Acre	30.86	1,344,262.00	0
City Park	2.67	Acre	2.67	116,305.00	0
Health Club	13.22	1000sqft	0.10	13,225.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	5,964.00	Dwelling Unit	18.10	5,964,000.00	15924
Condo/Townhouse	3.00	Dwelling Unit	0.15	3,000.00	8
Single Family Housing	125.00	Dwelling Unit	6.29	225,000.00	334
Strip Mall	899.46	1000sqft	66.43	899,457.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	457.25	CH4 Intensity (lb/MWhr)	0.018	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Adjusted to account for new and existing

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaCoating	Area_Nonresidential_Exterior	1409981	1404981
tblAreaCoating	Area_Nonresidential_Interior	4229942	4214942
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250
tblConstructionPhase	NumDays	4,650.00	2.00
tblEnergyUse	LightingElect	2.83	3.41
tblEnergyUse	LightingElect	3.81	4.24
tblEnergyUse	LightingElect	2.83	3.52

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tblEnergyUse	LightingElect	4.50	5.43
tblEnergyUse	LightingElect	6.22	6.57
tblEnergyUse	NT24E	3,054.10	3,019.08
tblEnergyUse	NT24E	3,795.01	3,126.41
tblEnergyUse	NT24E	6,155.97	5,089.81
tblEnergyUse	NT24NG	4,180.00	4,003.74
tblEnergyUse	NT24NG	4,180.00	3,001.57
tblEnergyUse	NT24NG	4,180.00	5,819.00
tblEnergyUse	T24E	209.39	208.75
tblEnergyUse	T24E	227.22	257.40
tblEnergyUse	T24E	1.21	1.53
tblEnergyUse	T24E	4.66	5.43
tblEnergyUse	T24E	1.21	1.59
tblEnergyUse	T24E	4.78	6.29
tblEnergyUse	T24E	331.07	550.61
tblEnergyUse	T24E	3.18	3.44
tblEnergyUse	T24NG	3,248.74	3,308.89
tblEnergyUse	T24NG	10,202.85	11,601.59
tblEnergyUse	T24NG	4.31	4.92
tblEnergyUse	T24NG	15.99	17.74
tblEnergyUse	T24NG	4.31	5.04
tblEnergyUse	T24NG	47.27	50.49
tblEnergyUse	T24NG	19,206.92	24,260.55
tblEnergyUse	T24NG	1.14	1.19
tblFireplaces	NumberGas	3,280.20	5,182.00
tblFireplaces	NumberGas	1.65	0.00
tblFireplaces	NumberGas	68.75	74.00

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tblFireplaces	NumberNoFireplace	596.40	782.00
tblFireplaces	NumberNoFireplace	0.30	0.00
tblFireplaces	NumberNoFireplace	12.50	21.00
tblFireplaces	NumberWood	2,087.40	0.00
tblFireplaces	NumberWood	1.05	0.00
tblFireplaces	NumberWood	43.75	116.00
tblLandUse	LandUseSquareFeet	1,194,870.00	1,194,872.00
tblLandUse	LandUseSquareFeet	1,344,261.60	1,344,262.00
tblLandUse	LandUseSquareFeet	116,305.20	116,305.00
tblLandUse	LandUseSquareFeet	13,220.00	13,225.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	899,460.00	899,457.00
tblLandUse	LotAcreage	15.48	42.41
tblLandUse	LotAcreage	27.43	51.78
tblLandUse	LotAcreage	6.89	0.00
tblLandUse	LotAcreage	0.30	0.10
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	156.95	18.10
tblLandUse	LotAcreage	0.19	0.15
tblLandUse	LotAcreage	40.58	6.29
tblLandUse	LotAcreage	20.65	66.43
tblLandUse	Population	17,057.00	15,924.00
tblLandUse	Population	9.00	8.00
tblLandUse	Population	358.00	334.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004

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tblTripsAndVMT	VendorTripNumber	1,402.00	1,400.00
tblTripsAndVMT	WorkerTripNumber	6,108.00	6,104.00
tblVehicleTrips	ST_TR	6.39	6.03
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	8.03
tblVehicleTrips	ST_TR	1.32	10.87
tblVehicleTrips	ST_TR	2.46	22.25
tblVehicleTrips	ST_TR	20.87	3.49
tblVehicleTrips	ST_TR	8.19	38.16
tblVehicleTrips	ST_TR	9.91	5.60
tblVehicleTrips	ST_TR	42.04	56.03
tblVehicleTrips	SU_TR	5.86	6.03
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	8.03
tblVehicleTrips	SU_TR	0.68	10.87
tblVehicleTrips	SU_TR	1.05	22.25
tblVehicleTrips	SU_TR	26.73	3.49
tblVehicleTrips	SU_TR	5.95	38.16
tblVehicleTrips	SU_TR	8.62	5.60
tblVehicleTrips	SU_TR	20.43	56.03
tblVehicleTrips	WD_TR	6.65	6.03
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	8.03
tblVehicleTrips	WD_TR	6.97	10.87
tblVehicleTrips	WD_TR	11.03	22.25
tblVehicleTrips	WD_TR	32.93	3.49
tblVehicleTrips	WD_TR	8.17	38.16

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tblVehicleTrips	WD_TR	9.52	5.60
tblVehicleTrips	WD_TR	44.32	56.03
tblWater	IndoorWaterUseRate	388,578,608.81	1,107,504,587.00
tblWater	IndoorWaterUseRate	195,462.08	0.00
tblWater	IndoorWaterUseRate	276,313,687.50	0.00
tblWater	IndoorWaterUseRate	119,831,647.57	0.00
tblWater	IndoorWaterUseRate	781,872.36	0.00
tblWater	IndoorWaterUseRate	684,902.79	0.00
tblWater	IndoorWaterUseRate	8,144,253.20	0.00
tblWater	IndoorWaterUseRate	66,625,270.17	0.00
tblWater	OutdoorWaterUseRate	244,973,470.77	473,591,675.00
tblWater	OutdoorWaterUseRate	3,181,255.20	0.00
tblWater	OutdoorWaterUseRate	123,226.09	0.00
tblWater	OutdoorWaterUseRate	73,445,203.35	0.00
tblWater	OutdoorWaterUseRate	479,212.09	0.00
tblWater	OutdoorWaterUseRate	76,100.31	0.00
tblWater	OutdoorWaterUseRate	5,134,420.50	0.00
tblWater	OutdoorWaterUseRate	40,834,843.01	0.00
tblWoodstoves	NumberCatalytic	298.20	0.00
tblWoodstoves	NumberCatalytic	0.15	0.00
tblWoodstoves	NumberCatalytic	6.25	0.00
tblWoodstoves	NumberNoncatalytic	298.20	0.00
tblWoodstoves	NumberNoncatalytic	0.15	0.00
tblWoodstoves	NumberNoncatalytic	6.25	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

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tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

9051 Morena Proposed Buildout - San Diego County, Summer

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					
2018	35.8815	226.5565	275.3813	0.9671	59.6205	3.3036	62.9241	16.0286	3.1229	19.1515	0.0000	99,134.1035	99,134.1035	5.8248	0.0000	99,279.7243
Maximum	35.8815	226.5565	275.3813	0.9671	59.6205	3.3036	62.9241	16.0286	3.1229	19.1515	0.0000	99,134.1035	99,134.1035	5.8248	0.0000	99,279.7243

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					
2018	35.8815	226.5565	275.3813	0.9671	59.6205	3.3036	62.9241	16.0286	3.1229	19.1515	0.0000	99,134.1035	99,134.1035	5.8248	0.0000	99,279.7242
Maximum	35.8815	226.5565	275.3813	0.9671	59.6205	3.3036	62.9241	16.0286	3.1229	19.1515	0.0000	99,134.1035	99,134.1035	5.8248	0.0000	99,279.7242

[illegible]

9051 Morena Proposed Buildout - San Diego County, Summer

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	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371
Energy	2.4026	21.0773	12.7429	0.1311		1.6600	1.6600		1.6600	1.6600		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580
Mobile	100.3360	449.8004	1,109.8430	4.7769	547.2227	2.3750	549.5978	146.1995	2.2070	148.4065		491,043.5477	491,043.5477	23.3166		491,626.4629
Total	852.2409	569.5077	2,210.8497	6.3620	547.2227	89.2107	636.4334	146.1995	89.0427	235.2422	7,403.1766	629,462.4522	636,865.6288	26.8155	3.1743	638,481.9579

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	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371
Energy	2.4026	21.0773	12.7429	0.1311		1.6600	1.6600		1.6600	1.6600		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580
Mobile	100.3360	449.8004	1,109.8430	4.7769	547.2227	2.3750	549.5978	146.1995	2.2070	148.4065		491,043.5477	491,043.5477	23.3166		491,626.4629
Total	852.2409	569.5077	2,210.8497	6.3620	547.2227	89.2107	636.4334	146.1995	89.0427	235.2422	7,403.1766	629,462.4522	636,865.6288	26.8155	3.1743	638,481.9579

9051 Morena Proposed Buildout - San Diego 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
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	Building Construction	Building Construction	4/18/2018	4/19/2018	5	2	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 30.86****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

9051 Morena Proposed Buildout - San Diego County, Summer

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
Building Construction	9	6,104.00	1,400.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099		2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Proposed Buildout - San Diego County, Summer

3.2 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	7.2200	184.4554	48.8448	0.3901	9.4776	1.4426	10.9202	2.7283	1.3801	4.1084		41,746.5811	41,746.5811	3.3087		41,829.2989
Worker	25.9820	18.7111	208.9561	0.5501	50.1429	0.3611	50.5040	13.3002	0.3329	13.6331		54,766.5873	54,766.5873	1.8740		54,813.4371
Total	33.2020	203.1665	257.8009	0.9402	59.6205	1.8037	61.4242	16.0286	1.7130	17.7415		96,513.1684	96,513.1684	5.1827		96,642.7360

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	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883
Total	2.6795	23.3900	17.5804	0.0269		1.4999	1.4999		1.4099	1.4099	0.0000	2,620.9351	2,620.9351	0.6421		2,636.9883

9051 Morena Proposed Buildout - San Diego County, Summer

3.2 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	7.2200	184.4554	48.8448	0.3901	9.4776	1.4426	10.9202	2.7283	1.3801	4.1084		41,746.5811	41,746.5811	3.3087		41,829.2989
Worker	25.9820	18.7111	208.9561	0.5501	50.1429	0.3611	50.5040	13.3002	0.3329	13.6331		54,766.5873	54,766.5873	1.8740		54,813.4371
Total	33.2020	203.1665	257.8009	0.9402	59.6205	1.8037	61.4242	16.0286	1.7130	17.7415		96,513.1684	96,513.1684	5.1827		96,642.7360

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

9051 Morena Proposed Buildout - San Diego 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	100.3360	449.8004	1,109.8430	4.7769	547.2227	2.3750	549.5978	146.1995	2.2070	148.4065		491,043.5477	491,043.5477	23.3166		491,626.4629
Unmitigated	100.3360	449.8004	1,109.8430	4.7769	547.2227	2.3750	549.5978	146.1995	2.2070	148.4065		491,043.5477	491,043.5477	23.3166		491,626.4629

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	35,962.92	35,962.92	35,962.92	102,685,046	102,685,046
City Park	0.00	0.00	0.00		
Condo/Townhouse	24.09	24.09	24.09	68,784	68,784
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	12,988.24	12,988.24	12,988.24	37,919,302	37,919,302
General Office Building	15,001.40	15,001.40	15,001.40	35,849,626	35,849,626
Health Club	46.14	46.14	46.14	79,711	79,711
Hotel	1,030.32	1,030.32	1,030.32	1,957,537	1,957,537
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	700.00	700.00	700.00	1,998,712	1,998,712
Strip Mall	50,396.74	50,396.74	50,396.74	77,612,651	77,612,651
Total	116,149.84	116,149.84	116,149.84	258,171,369	258,171,369

4.3 Trip Type Information

9051 Morena Proposed Buildout - San Diego County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking Structure	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

9051 Morena Proposed Buildout - San Diego County, Summer

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	2.4026	21.0773	12.7429	0.1311		1.6600	1.6600		1.6600	1.6600		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580
NaturalGas Unmitigated	2.4026	21.0773	12.7429	0.1311		1.6600	1.6600		1.6600	1.6600		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580

9051 Morena Proposed Buildout - San Diego 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					
Apartments Mid Rise	119486	1.2886	11.0115	4.6857	0.0703		0.8903	0.8903		0.8903	0.8903		14,057.2201	14,057.2201	0.2694	0.2577	14,140.7551
City Park	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
Condo/Townhouse	120.026	1.2900e-003	0.0111	4.7100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.1207	14.1207	2.7000e-004	2.6000e-004	14.2046
Enclosed Parking Structure	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
General Light Industry	39840	0.4297	3.9059	3.2809	0.0234		0.2969	0.2969		0.2969	0.2969		4,687.0563	4,687.0563	0.0898	0.0859	4,714.9092
General Office Building	40527.1	0.4371	3.9732	3.3375	0.0238		0.3020	0.3020		0.3020	0.3020		4,767.8926	4,767.8926	0.0914	0.0874	4,796.2258
Health Club	445.302	4.8000e-003	0.0437	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3885	52.3885	1.0000e-003	9.6000e-004	52.6998
Hotel	6444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	10301.2	0.1111	0.9493	0.4040	6.0600e-003		0.0768	0.0768		0.0768	0.0768		1,211.9077	1,211.9077	0.0232	0.0222	1,219.1095
Strip Mall	5618.53	0.0606	0.5508	0.4627	3.3100e-003		0.0419	0.0419		0.0419	0.0419		661.0031	661.0031	0.0127	0.0121	664.9311
Total		2.4026	21.0773	12.7429	0.1311		1.6599	1.6599		1.6599	1.6599		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580

9051 Morena Proposed Buildout - San Diego County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	119.486	1.2886	11.0115	4.6857	0.0703		0.8903	0.8903		0.8903	0.8903		14,057.2201	14,057.2201	0.2694	0.2577	14,140.7551
City Park	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
Condo/Townhouse	0.120026	1.2900e-003	0.0111	4.7100e-003	7.0000e-005		8.9000e-004	8.9000e-004		8.9000e-004	8.9000e-004		14.1207	14.1207	2.7000e-004	2.6000e-004	14.2046
Enclosed Parking Structure	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
General Light Industry	39.84	0.4297	3.9059	3.2809	0.0234		0.2969	0.2969		0.2969	0.2969		4,687.0563	4,687.0563	0.0898	0.0859	4,714.9092
General Office Building	40.5271	0.4371	3.9732	3.3375	0.0238		0.3020	0.3020		0.3020	0.3020		4,767.8926	4,767.8926	0.0914	0.0874	4,796.2258
Health Club	0.445302	4.8000e-003	0.0437	0.0367	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003		52.3885	52.3885	1.0000e-003	9.6000e-004	52.6998
Hotel	6.444	0.0695	0.6318	0.5307	3.7900e-003		0.0480	0.0480		0.0480	0.0480		758.1178	758.1178	0.0145	0.0139	762.6229
Other 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
Single Family Housing	10.3012	0.1111	0.9493	0.4040	6.0600e-003		0.0768	0.0768		0.0768	0.0768		1,211.9077	1,211.9077	0.0232	0.0222	1,219.1095
Strip Mall	5.61853	0.0606	0.5508	0.4627	3.3100e-003		0.0419	0.0419		0.0419	0.0419		661.0031	661.0031	0.0127	0.0121	664.9311
Total		2.4026	21.0773	12.7429	0.1311		1.6599	1.6599		1.6599	1.6599		26,209.7068	26,209.7068	0.5024	0.4805	26,365.4580

6.0 Area Detail**6.1 Mitigation Measures Area**

9051 Morena Proposed Buildout - San Diego 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	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371
Unmitigated	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371

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	32.2256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	193.4444					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	508.8285	92.8490	587.1137	1.4275		82.3874	82.3874		82.3874	82.3874	7,403.1766	111,303.5294	118,706.7060	2.1333	2.6938	119,562.7872
Landscaping	15.0038	5.7810	501.1501	0.0266		2.7883	2.7883		2.7883	2.7883		905.6683	905.6683	0.8633		927.2498
Total	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371

9051 Morena Proposed Buildout - San Diego County, Summer

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	32.2256					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	193.4444					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	508.8285	92.8490	587.1137	1.4275		82.3874	82.3874		82.3874	82.3874	7,403.1766	111,303.5294	118,706.7060	2.1333	2.6938	119,562.7872
Landscaping	15.0038	5.7810	501.1501	0.0266		2.7883	2.7883		2.7883	2.7883		905.6683	905.6683	0.8633		927.2498
Total	749.5024	98.6300	1,088.2638	1.4540		85.1757	85.1757		85.1757	85.1757	7,403.1766	112,209.1977	119,612.3743	2.9966	2.6938	120,490.0371

7.0 Water Detail**7.1 Mitigation Measures Water****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

9051 Morena Proposed Buildout - San Diego County, Summer

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

9051 Morena Proposed Buildout - San Diego County, Annual

9051 Morena Proposed Buildout

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	674.22	1000sqft	42.41	674,220.00	0
General Light Industry	1,194.87	1000sqft	51.78	1,194,872.00	0
Enclosed Parking Structure	300.00	1000sqft	0.00	300,000.00	0
Other Asphalt Surfaces	30.86	Acre	30.86	1,344,262.00	0
City Park	2.67	Acre	2.67	116,305.00	0
Health Club	13.22	1000sqft	0.10	13,225.00	0
Hotel	27.00	Room	1.54	38,189.00	0
Apartments Mid Rise	5,964.00	Dwelling Unit	18.10	5,964,000.00	15924
Condo/Townhouse	3.00	Dwelling Unit	0.15	3,000.00	8
Single Family Housing	125.00	Dwelling Unit	6.29	225,000.00	334
Strip Mall	899.46	1000sqft	66.43	899,457.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	457.25	CH4 Intensity (lb/MW hr)	0.018	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement of 43%
(457.25, 0.018, 0.004)

Land Use - Placeworks CalEEMod Assumptions

Construction Phase - Construction calculated separately

Vehicle Trips - TIA

Woodstoves - Placeworks CalEEMod Assumptions

Area Coating - SDAPCD Rule 67.0.1

Energy Use - Adjusted to account for new and existing

Water And Wastewater - Placeworks CalEEMod Assumptions

Solid Waste -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	150
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	150
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblAreaCoating	Area_Nonresidential_Exterior	1409981	1404981
tblAreaCoating	Area_Nonresidential_Interior	4229942	4214942
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	250
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	250
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	250
tblConstructionPhase	NumDays	4,650.00	2.00
tblEnergyUse	LightingElect	2.83	3.41
tblEnergyUse	LightingElect	3.81	4.24
tblEnergyUse	LightingElect	2.83	3.52

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tblEnergyUse	LightingElect	4.50	5.43
tblEnergyUse	LightingElect	6.22	6.57
tblEnergyUse	NT24E	3,054.10	3,019.08
tblEnergyUse	NT24E	3,795.01	3,126.41
tblEnergyUse	NT24E	6,155.97	5,089.81
tblEnergyUse	NT24NG	4,180.00	4,003.74
tblEnergyUse	NT24NG	4,180.00	3,001.57
tblEnergyUse	NT24NG	4,180.00	5,819.00
tblEnergyUse	T24E	209.39	208.75
tblEnergyUse	T24E	227.22	257.40
tblEnergyUse	T24E	1.21	1.53
tblEnergyUse	T24E	4.66	5.43
tblEnergyUse	T24E	1.21	1.59
tblEnergyUse	T24E	4.78	6.29
tblEnergyUse	T24E	331.07	550.61
tblEnergyUse	T24E	3.18	3.44
tblEnergyUse	T24NG	3,248.74	3,308.89
tblEnergyUse	T24NG	10,202.85	11,601.59
tblEnergyUse	T24NG	4.31	4.92
tblEnergyUse	T24NG	15.99	17.74
tblEnergyUse	T24NG	4.31	5.04
tblEnergyUse	T24NG	47.27	50.49
tblEnergyUse	T24NG	19,206.92	24,260.55
tblEnergyUse	T24NG	1.14	1.19
tblFireplaces	NumberGas	3,280.20	5,182.00
tblFireplaces	NumberGas	1.65	0.00
tblFireplaces	NumberGas	68.75	74.00

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tblFireplaces	NumberNoFireplace	596.40	782.00
tblFireplaces	NumberNoFireplace	0.30	0.00
tblFireplaces	NumberNoFireplace	12.50	21.00
tblFireplaces	NumberWood	2,087.40	0.00
tblFireplaces	NumberWood	1.05	0.00
tblFireplaces	NumberWood	43.75	116.00
tblLandUse	LandUseSquareFeet	1,194,870.00	1,194,872.00
tblLandUse	LandUseSquareFeet	1,344,261.60	1,344,262.00
tblLandUse	LandUseSquareFeet	116,305.20	116,305.00
tblLandUse	LandUseSquareFeet	13,220.00	13,225.00
tblLandUse	LandUseSquareFeet	39,204.00	38,189.00
tblLandUse	LandUseSquareFeet	899,460.00	899,457.00
tblLandUse	LotAcreage	15.48	42.41
tblLandUse	LotAcreage	27.43	51.78
tblLandUse	LotAcreage	6.89	0.00
tblLandUse	LotAcreage	0.30	0.10
tblLandUse	LotAcreage	0.90	1.54
tblLandUse	LotAcreage	156.95	18.10
tblLandUse	LotAcreage	0.19	0.15
tblLandUse	LotAcreage	40.58	6.29
tblLandUse	LotAcreage	20.65	66.43
tblLandUse	Population	17,057.00	15,924.00
tblLandUse	Population	9.00	8.00
tblLandUse	Population	358.00	334.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.018
tblProjectCharacteristics	CO2IntensityFactor	720.49	457.25
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004

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tblTripsAndVMT	VendorTripNumber	1,402.00	1,400.00
tblTripsAndVMT	WorkerTripNumber	6,108.00	6,104.00
tblVehicleTrips	ST_TR	6.39	6.03
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	8.03
tblVehicleTrips	ST_TR	1.32	10.87
tblVehicleTrips	ST_TR	2.46	22.25
tblVehicleTrips	ST_TR	20.87	3.49
tblVehicleTrips	ST_TR	8.19	38.16
tblVehicleTrips	ST_TR	9.91	5.60
tblVehicleTrips	ST_TR	42.04	56.03
tblVehicleTrips	SU_TR	5.86	6.03
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	8.03
tblVehicleTrips	SU_TR	0.68	10.87
tblVehicleTrips	SU_TR	1.05	22.25
tblVehicleTrips	SU_TR	26.73	3.49
tblVehicleTrips	SU_TR	5.95	38.16
tblVehicleTrips	SU_TR	8.62	5.60
tblVehicleTrips	SU_TR	20.43	56.03
tblVehicleTrips	WD_TR	6.65	6.03
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	8.03
tblVehicleTrips	WD_TR	6.97	10.87
tblVehicleTrips	WD_TR	11.03	22.25
tblVehicleTrips	WD_TR	32.93	3.49
tblVehicleTrips	WD_TR	8.17	38.16

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tblVehicleTrips	WD_TR	9.52	5.60
tblVehicleTrips	WD_TR	44.32	56.03
tblWater	IndoorWaterUseRate	388,578,608.81	1,107,504,587.00
tblWater	IndoorWaterUseRate	195,462.08	0.00
tblWater	IndoorWaterUseRate	276,313,687.50	0.00
tblWater	IndoorWaterUseRate	119,831,647.57	0.00
tblWater	IndoorWaterUseRate	781,872.36	0.00
tblWater	IndoorWaterUseRate	684,902.79	0.00
tblWater	IndoorWaterUseRate	8,144,253.20	0.00
tblWater	IndoorWaterUseRate	66,625,270.17	0.00
tblWater	OutdoorWaterUseRate	244,973,470.77	473,591,675.00
tblWater	OutdoorWaterUseRate	3,181,255.20	0.00
tblWater	OutdoorWaterUseRate	123,226.09	0.00
tblWater	OutdoorWaterUseRate	73,445,203.35	0.00
tblWater	OutdoorWaterUseRate	479,212.09	0.00
tblWater	OutdoorWaterUseRate	76,100.31	0.00
tblWater	OutdoorWaterUseRate	5,134,420.50	0.00
tblWater	OutdoorWaterUseRate	40,834,843.01	0.00
tblWoodstoves	NumberCatalytic	298.20	0.00
tblWoodstoves	NumberCatalytic	0.15	0.00
tblWoodstoves	NumberCatalytic	6.25	0.00
tblWoodstoves	NumberNoncatalytic	298.20	0.00
tblWoodstoves	NumberNoncatalytic	0.15	0.00
tblWoodstoves	NumberNoncatalytic	6.25	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00

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tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

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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					
2018	0.0361	0.2309	0.2671	9.3000e-004	0.0582	3.3100e-003	0.0616	0.0157	3.1300e-003	0.0188	0.0000	86.9591	86.9591	5.3000e-003	0.0000	87.0915
Maximum	0.0361	0.2309	0.2671	9.3000e-004	0.0582	3.3100e-003	0.0616	0.0157	3.1300e-003	0.0188	0.0000	86.9591	86.9591	5.3000e-003	0.0000	87.0915

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					
2018	0.0361	0.2309	0.2671	9.3000e-004	0.0582	3.3100e-003	0.0616	0.0157	3.1300e-003	0.0188	0.0000	86.9591	86.9591	5.3000e-003	0.0000	87.0915
Maximum	0.0361	0.2309	0.2671	9.3000e-004	0.0582	3.3100e-003	0.0616	0.0157	3.1300e-003	0.0188	0.0000	86.9591	86.9591	5.3000e-003	0.0000	87.0915

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-18-2018	7-17-2018	0.1875	0.1875
		Highest	0.1875	0.1875

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	63.3971	4.3271	69.1752	0.0609		3.6288	3.6288		3.6288	3.6288	275.3580	4,213.832 2	4,489.190 2	0.1498	0.1002	4,522.793 8
Energy	0.4385	3.8466	2.3256	0.0239		0.3029	0.3029		0.3029	0.3029	0.0000	16,726.79 24	16,726.79 24	0.5708	0.1879	16,797.06 26
Mobile	17.2600	83.3149	197.3760	0.8342	97.2567	0.4323	97.6890	26.0345	0.4017	26.4362	0.0000	77,858.36 80	77,858.36 80	3.8450	0.0000	77,954.49 26
Waste						0.0000	0.0000		0.0000	0.0000	1,223.063 2	0.0000	1,223.063 2	72.2810	0.0000	3,030.087 3
Water						0.0000	0.0000		0.0000	0.0000	351.3601	4,082.234 7	4,433.594 8	36.2488	0.8878	5,604.386 4
Total	81.0956	91.4886	268.8768	0.9191	97.2567	4.3641	101.6207	26.0345	4.3335	30.3680	1,849.781 3	102,881.2 272	104,731.0 085	113.0953	1.1759	107,908.8 227

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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	63.3971	4.3271	69.1752	0.0609		3.6288	3.6288		3.6288	3.6288	275.3580	4,213.832 2	4,489.190 2	0.1498	0.1002	4,522.793 8
Energy	0.4385	3.8466	2.3256	0.0239		0.3029	0.3029		0.3029	0.3029	0.0000	16,726.79 24	16,726.79 24	0.5708	0.1879	16,797.06 26
Mobile	17.2600	83.3149	197.3760	0.8342	97.2567	0.4323	97.6890	26.0345	0.4017	26.4362	0.0000	77,858.36 80	77,858.36 80	3.8450	0.0000	77,954.49 26
Waste						0.0000	0.0000		0.0000	0.0000	1,223.063 2	0.0000	1,223.063 2	72.2810	0.0000	3,030.087 3
Water						0.0000	0.0000		0.0000	0.0000	351.3601	4,082.234 7	4,433.594 8	36.2488	0.8878	5,604.386 4
Total	81.0956	91.4886	268.8768	0.9191	97.2567	4.3641	101.6207	26.0345	4.3335	30.3680	1,849.781 3	102,881.2 272	104,731.0 085	113.0953	1.1759	107,908.8 227

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	4/18/2018	4/19/2018	5	2	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 30.86****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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
Building Construction	9	6,104.00	1,400.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 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	tons/yr										MT/yr					
Off-Road	2.6800e-003	0.0234	0.0176	3.0000e-005		1.5000e-003	1.5000e-003		1.4100e-003	1.4100e-003	0.0000	2.3777	2.3777	5.8000e-004	0.0000	2.3922
Total	2.6800e-003	0.0234	0.0176	3.0000e-005		1.5000e-003	1.5000e-003		1.4100e-003	1.4100e-003	0.0000	2.3777	2.3777	5.8000e-004	0.0000	2.3922

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	7.3400e-003	0.1869	0.0514	3.9000e-004	9.2900e-003	1.4500e-003	0.0108	2.6800e-003	1.3900e-003	4.0700e-003	0.0000	37.4722	37.4722	3.0900e-003	0.0000	37.5494
Worker	0.0261	0.0207	0.1981	5.2000e-004	0.0490	3.6000e-004	0.0493	0.0130	3.3000e-004	0.0133	0.0000	47.1092	47.1092	1.6300e-003	0.0000	47.1498
Total	0.0334	0.2075	0.2495	9.1000e-004	0.0582	1.8100e-003	0.0601	0.0157	1.7200e-003	0.0174	0.0000	84.5814	84.5814	4.7200e-003	0.0000	84.6992

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3.2 Building Construction - 2018**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	2.6800e-003	0.0234	0.0176	3.0000e-005		1.5000e-003	1.5000e-003		1.4100e-003	1.4100e-003	0.0000	2.3777	2.3777	5.8000e-004	0.0000	2.3922
Total	2.6800e-003	0.0234	0.0176	3.0000e-005		1.5000e-003	1.5000e-003		1.4100e-003	1.4100e-003	0.0000	2.3777	2.3777	5.8000e-004	0.0000	2.3922

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	7.3400e-003	0.1869	0.0514	3.9000e-004	9.2900e-003	1.4500e-003	0.0108	2.6800e-003	1.3900e-003	4.0700e-003	0.0000	37.4722	37.4722	3.0900e-003	0.0000	37.5494
Worker	0.0261	0.0207	0.1981	5.2000e-004	0.0490	3.6000e-004	0.0493	0.0130	3.3000e-004	0.0133	0.0000	47.1092	47.1092	1.6300e-003	0.0000	47.1498
Total	0.0334	0.2075	0.2495	9.1000e-004	0.0582	1.8100e-003	0.0601	0.0157	1.7200e-003	0.0174	0.0000	84.5814	84.5814	4.7200e-003	0.0000	84.6992

4.0 Operational Detail - Mobile

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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	tons/yr										MT/yr					
Mitigated	17.2600	83.3149	197.3760	0.8342	97.2567	0.4323	97.6890	26.0345	0.4017	26.4362	0.0000	77,858.3680	77,858.3680	3.8450	0.0000	77,954.4926
Unmitigated	17.2600	83.3149	197.3760	0.8342	97.2567	0.4323	97.6890	26.0345	0.4017	26.4362	0.0000	77,858.3680	77,858.3680	3.8450	0.0000	77,954.4926

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	35,962.92	35,962.92	35962.92	102,685,046	102,685,046
City Park	0.00	0.00	0.00		
Condo/Townhouse	24.09	24.09	24.09	68,784	68,784
Enclosed Parking Structure	0.00	0.00	0.00		
General Light Industry	12,988.24	12,988.24	12988.24	37,919,302	37,919,302
General Office Building	15,001.40	15,001.40	15001.40	35,849,626	35,849,626
Health Club	46.14	46.14	46.14	79,711	79,711
Hotel	1,030.32	1,030.32	1030.32	1,957,537	1,957,537
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	700.00	700.00	700.00	1,998,712	1,998,712
Strip Mall	50,396.74	50,396.74	50396.74	77,612,651	77,612,651
Total	116,149.84	116,149.84	116,149.84	258,171,369	258,171,369

4.3 Trip Type Information

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Enclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Hotel	9.50	7.30	7.30	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Condo/Townhouse	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Enclosed Parking Structure	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Light Industry	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
General Office Building	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Health Club	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Hotel	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Single Family Housing	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Strip Mall	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

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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	12,387.4815	12,387.4815	0.4876	0.1084	12,431.9653
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12,387.4815	12,387.4815	0.4876	0.1084	12,431.9653
NaturalGas Mitigated	0.4385	3.8466	2.3256	0.0239		0.3029	0.3029		0.3029	0.3029	0.0000	4,339.3109	4,339.3109	0.0832	0.0796	4,365.0973
NaturalGas Unmitigated	0.4385	3.8466	2.3256	0.0239		0.3029	0.3029		0.3029	0.3029	0.0000	4,339.3109	4,339.3109	0.0832	0.0796	4,365.0973

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.36125e+007	0.2352	2.0096	0.8552	0.0128		0.1625	0.1625		0.1625	0.1625	0.0000	2,327.3304	2,327.3304	0.0446	0.0427	2,341.1606
City Park	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
Condo/Townhouse	43809.5	2.4000e-004	2.0200e-003	8.6000e-004	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3378	2.3378	4.0000e-005	4.0000e-005	2.3517
Enclosed Parking Structure	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
General Light Industry	1.45416e+007	0.0784	0.7128	0.5988	4.2800e-003		0.0542	0.0542		0.0542	0.0542	0.0000	775.9947	775.9947	0.0149	0.0142	780.6061
General Office Building	1.47924e+007	0.0798	0.7251	0.6091	4.3500e-003		0.0551	0.0551		0.0551	0.0551	0.0000	789.3781	789.3781	0.0151	0.0145	794.0690
Health Club	162535	8.8000e-004	7.9700e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6735	8.6735	1.7000e-004	1.6000e-004	8.7250
Hotel	2.35206e+006	0.0127	0.1153	0.0969	6.9000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	125.5149	125.5149	2.4100e-003	2.3000e-003	126.2608
Other 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	0.0000
Single Family Housing	3.75994e+006	0.0203	0.1733	0.0737	1.1100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	200.6449	200.6449	3.8500e-003	3.6800e-003	201.8373
Strip Mall	2.05076e+006	0.0111	0.1005	0.0844	6.0000e-004		7.6400e-003	7.6400e-003		7.6400e-003	7.6400e-003	0.0000	109.4365	109.4365	2.1000e-003	2.0100e-003	110.0868
Total		0.4385	3.8466	2.3256	0.0239		0.3029	0.3029		0.3029	0.3029	0.0000	4,339.3109	4,339.3109	0.0832	0.0796	4,365.0973

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.36125e+007	0.2352	2.0096	0.8552	0.0128		0.1625	0.1625		0.1625	0.1625	0.0000	2,327.3304	2,327.3304	0.0446	0.0427	2,341.1606
City Park	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
Condo/Townhouse	43809.5	2.4000e-004	2.0200e-003	8.6000e-004	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3378	2.3378	4.0000e-005	4.0000e-005	2.3517
Enclosed Parking Structure	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
General Light Industry	1.45416e+007	0.0784	0.7128	0.5988	4.2800e-003		0.0542	0.0542		0.0542	0.0542	0.0000	775.9947	775.9947	0.0149	0.0142	780.6061
General Office Building	1.47924e+007	0.0798	0.7251	0.6091	4.3500e-003		0.0551	0.0551		0.0551	0.0551	0.0000	789.3781	789.3781	0.0151	0.0145	794.0690
Health Club	162535	8.8000e-004	7.9700e-003	6.6900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.6735	8.6735	1.7000e-004	1.6000e-004	8.7250
Hotel	2.35206e+006	0.0127	0.1153	0.0969	6.9000e-004		8.7600e-003	8.7600e-003		8.7600e-003	8.7600e-003	0.0000	125.5149	125.5149	2.4100e-003	2.3000e-003	126.2608
Other 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	0.0000
Single Family Housing	3.75994e+006	0.0203	0.1733	0.0737	1.1100e-003		0.0140	0.0140		0.0140	0.0140	0.0000	200.6449	200.6449	3.8500e-003	3.6800e-003	201.8373
Strip Mall	2.05076e+006	0.0111	0.1005	0.0844	6.0000e-004		7.6400e-003	7.6400e-003		7.6400e-003	7.6400e-003	0.0000	109.4365	109.4365	2.1000e-003	2.0100e-003	110.0868
Total		0.4385	3.8466	2.3256	0.0239		0.3029	0.3029		0.3029	0.3029	0.0000	4,339.3109	4,339.3109	0.0832	0.0796	4,365.0973

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.36727e+007	4,909.8444	0.1933	0.0430	4,927.4758
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	13154.7	2.7284	1.1000e-004	2.0000e-005	2.7382
Enclosed Parking Structure	1.701e+006	352.7961	0.0139	3.0900e-003	354.0630
General Light Industry	1.10048e+007	2,282.4458	0.0899	0.0200	2,290.6421
General Office Building	9.87058e+006	2,047.2089	0.0806	0.0179	2,054.5605
Health Club	124050	25.7287	1.0100e-003	2.3000e-004	25.8211
Hotel	587729	121.8979	4.8000e-003	1.0700e-003	122.3357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	906158	187.9417	7.4000e-003	1.6400e-003	188.6166
Strip Mall	1.18458e+007	2,456.8896	0.0967	0.0215	2,465.7123
Total		12,387.4815	0.4877	0.1084	12,431.9653

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	2.36727e+007	4,909.8444	0.1933	0.0430	4,927.4758
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	13154.7	2.7284	1.1000e-004	2.0000e-005	2.7382
Enclosed Parking Structure	1.701e+006	352.7961	0.0139	3.0900e-003	354.0630
General Light Industry	1.10048e+007	2,282.4458	0.0899	0.0200	2,290.6421
General Office Building	9.87058e+006	2,047.2089	0.0806	0.0179	2,054.5605
Health Club	124050	25.7287	1.0100e-003	2.3000e-004	25.8211
Hotel	587729	121.8979	4.8000e-003	1.0700e-003	122.3357
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	906158	187.9417	7.4000e-003	1.6400e-003	188.6166
Strip Mall	1.18458e+007	2,456.8896	0.0967	0.0215	2,465.7123
Total		12,387.4815	0.4877	0.1084	12,431.9653

6.0 Area Detail**6.1 Mitigation Measures Area**

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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
Category	tons/yr										MT/yr					
Mitigated	63.3971	4.3271	69.1752	0.0609		3.6288	3.6288		3.6288	3.6288	275.3580	4,213.832 2	4,489.190 2	0.1498	0.1002	4,522.793 8
Unmitigated	63.3971	4.3271	69.1752	0.0609		3.6288	3.6288		3.6288	3.6288	275.3580	4,213.832 2	4,489.190 2	0.1498	0.1002	4,522.793 8

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	5.8812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	35.3036					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	20.8620	3.8068	24.0717	0.0585		3.3779	3.3779		3.3779	3.3779	275.3580	4,139.887 4	4,415.245 4	0.0794	0.1002	4,447.087 0
Landscaping	1.3503	0.5203	45.1035	2.3900e-003		0.2510	0.2510		0.2510	0.2510	0.0000	73.9448	73.9448	0.0705	0.0000	75.7068
Total	63.3971	4.3271	69.1752	0.0609		3.6288	3.6288		3.6288	3.6288	275.3580	4,213.832 2	4,489.190 2	0.1498	0.1002	4,522.793 8

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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	5.8812					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	35.3036					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	20.8620	3.8068	24.0717	0.0585		3.3779	3.3779		3.3779	3.3779	275.3580	4,139.8874	4,415.2454	0.0794	0.1002	4,447.0870
Landscaping	1.3503	0.5203	45.1035	2.3900e-003		0.2510	0.2510		0.2510	0.2510	0.0000	73.9448	73.9448	0.0705	0.0000	75.7068
Total	63.3971	4.3271	69.1752	0.0609		3.6288	3.6288		3.6288	3.6288	275.3580	4,213.8322	4,489.1902	0.1498	0.1002	4,522.7938

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4,433.594 8	36.2488	0.8878	5,604.386 4
Unmitigated	4,433.594 8	36.2488	0.8878	5,604.386 4

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7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1107.5 / 473.592	4,433.5948	36.2488	0.8878	5,604.3864
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4,433.5948	36.2488	0.8878	5,604.3864

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1107.5 / 473.592	4,433.5948	36.2488	0.8878	5,604.3864
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Health Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4,433.5948	36.2488	0.8878	5,604.3864

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1,223.063 2	72.2810	0.0000	3,030.087 3
Unmitigated	1,223.063 2	72.2810	0.0000	3,030.087 3

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2743.44	556.8935	32.9115	0.0000	1,379.680 ₁
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
Condo/Townhouse	1.38	0.2801	0.0166	0.0000	0.6940
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1481.64	300.7595	17.7744	0.0000	745.1190
General Office Building	627.02	127.2794	7.5220	0.0000	315.3293
Health Club	75.35	15.2954	0.9039	0.0000	37.8936
Hotel	14.78	3.0002	0.1773	0.0000	7.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	136.94	27.7976	1.6428	0.0000	68.8673
Strip Mall	944.43	191.7108	11.3298	0.0000	474.9553
Total		1,223.063₂	72.2810	0.0000	3,030.087₃

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	2743.44	556.8935	32.9115	0.0000	1,379.680 ₁
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
Condo/Townhouse	1.38	0.2801	0.0166	0.0000	0.6940
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
General Light Industry	1481.64	300.7595	17.7744	0.0000	745.1190
General Office Building	627.02	127.2794	7.5220	0.0000	315.3293
Health Club	75.35	15.2954	0.9039	0.0000	37.8936
Hotel	14.78	3.0002	0.1773	0.0000	7.4329
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	136.94	27.7976	1.6428	0.0000	68.8673
Strip Mall	944.43	191.7108	11.3298	0.0000	474.9553
Total		1,223.063₂	72.2810	0.0000	3,030.087₃

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
