

**Appendix B:
Air Quality, GHG Emissions, and Energy Supporting Information**

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B.1 - Air Quality CalEEMod Summer Emissions Estimates

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Sausalito General Plan Update EIR - Marin County, Summer

Sausalito General Plan Update EIR
Marin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	146.12	1000sqft	3.35	146,124.00	0
Condo/Townhouse	304.00	Dwelling Unit	19.00	304,000.00	869
Strip Mall	587.96	1000sqft	13.50	587,961.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	69
Climate Zone	5			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	448.94	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Sausalito General Plan Update EIR - Marin County, Summer

Project Characteristics - PG&E default values based on 2008 Intensity factors of 30% renewables. Per SB 100 that requires 60% renewable, Intensity factors reduced by 30%

Land Use -

Woodstoves - Per BAAQMD Rule 6-3-306 no wood burning fireplaces shall be installed in new building construction

Energy Use -

Mobile Land Use Mitigation - Pedestrian Network provided throughout City. 0.1 mile avg dist to transit

Energy Mitigation - Per 2019 Title 24 Part 6 requirements exceed Title 24 by 30% and 30% lighting reduction

Water Mitigation - Install Low-Flow fixtures and Use Water-Efficient Irrigation

Waste Mitigation - 50% Reduction in waste per AB341 waste reduction requirements

Construction Phase -

Off-road Equipment - No Equipment

Trips and VMT - No construction

Sausalito General Plan Update EIR - Marin County, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	PhaseName	Architectural Coating	Place Holder
tblFireplaces	NumberGas	45.60	304.00
tblFireplaces	NumberNoFireplace	12.16	0.00
tblFireplaces	NumberWood	51.68	0.00
tblLandUse	LandUseSquareFeet	146,120.00	146,124.00
tblLandUse	LandUseSquareFeet	587,960.00	587,961.00
tblOffRoadEquipment	HorsePower	63.00	78.00
tblOffRoadEquipment	LoadFactor	0.31	0.48
tblOffRoadEquipment	OffRoadEquipmentType	Air Compressors	Aerial Lifts
tblOffRoadEquipment	PhaseName	Architectural Coating	Place Holder
tblOnRoadDust	PhaseName	Architectural Coating	Place Holder
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	641.35	448.94
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	PhaseName	Architectural Coating	Place Holder
tblTripsAndVMT	WorkerTripNumber	94.00	0.00
tblWoodstoves	NumberCatalytic	6.08	0.00
tblWoodstoves	NumberNoncatalytic	6.08	0.00

2.0 Emissions Summary

Sausalito General Plan Update EIR - Marin 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	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254
Energy	0.3674	3.2290	1.9896	0.0200		0.2539	0.2539		0.2539	0.2539		4,008.3269	4,008.3269	0.0768	0.0735	4,032.1464
Mobile	17.6948	55.1434	159.4271	0.7810	98.9305	0.3591	99.2896	26.3969	0.3339	26.7308		79,171.9806	79,171.9806	2.0935		79,224.3191
Total	44.9894	64.5445	188.9649	0.8399	98.9305	1.2280	100.1585	26.3969	1.2028	27.5997	0.0000	90,736.2164	90,736.2164	2.3577	0.2112	90,858.0909

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	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254
Energy	0.2692	2.3656	1.4562	0.0147		0.1860	0.1860		0.1860	0.1860		2,936.7669	2,936.7669	0.0563	0.0538	2,954.2187
Mobile	16.4564	50.9696	131.5007	0.6163	76.3603	0.2934	76.6537	20.3747	0.2727	20.6473		62,508.7418	62,508.7418	1.7050		62,551.3656
Total	43.6528	59.5073	160.5051	0.6699	76.3603	1.0944	77.4547	20.3747	1.0737	21.4483	0.0000	73,001.4175	73,001.4175	1.9486	0.1915	73,107.2097

Sausalito General Plan Update EIR - Marin 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	2.97	7.80	15.06	20.24	22.81	10.88	22.67	22.81	10.73	22.29	0.00	19.55	19.55	17.35	9.30	19.54

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Place Holder	Trenching	8/23/2024	11/7/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 615,600; Residential Outdoor: 205,200; Non-Residential Indoor: 1,101,128; Non-Residential Outdoor: 367,043; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Place Holder	Aerial Lifts	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Place Holder	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Sausalito General Plan Update EIR - Marin County, Summer

3.2 Place Holder - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	217.0101					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	217.0101	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Sausalito General Plan Update EIR - Marin County, Summer

3.2 Place Holder - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	217.0101					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	217.0101		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

Sausalito General Plan Update EIR - Marin County, Summer

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	16.4564	50.9696	131.5007	0.6163	76.3603	0.2934	76.6537	20.3747	0.2727	20.6473		62,508.74 18	62,508.74 18	1.7050		62,551.36 56
Unmitigated	17.6948	55.1434	159.4271	0.7810	98.9305	0.3591	99.2896	26.3969	0.3339	26.7308		79,171.98 06	79,171.98 06	2.0935		79,224.31 91

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,766.24	1,723.68	1471.36	3,967,985	3,062,720
Industrial Park	998.00	363.84	106.67	2,045,215	1,578,615
Strip Mall	26,058.39	24,717.84	12012.02	36,745,584	28,362,365
Total	28,822.63	26,805.36	13,590.05	42,758,783	33,003,700

4.3 Trip Type Information

Sausalito General Plan Update EIR - Marin 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
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
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
Condo/Townhouse	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673
Industrial Park	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673
Strip Mall	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Sausalito General Plan Update EIR - Marin 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	0.2692	2.3656	1.4562	0.0147		0.1860	0.1860		0.1860	0.1860		2,936.7669	2,936.7669	0.0563	0.0538	2,954.2187
NaturalGas Unmitigated	0.3674	3.2290	1.9896	0.0200		0.2539	0.2539		0.2539	0.2539		4,008.3269	4,008.3269	0.0768	0.0735	4,032.1464

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	18922.3	0.2041	1.7438	0.7421	0.0111		0.1410	0.1410		0.1410	0.1410		2,226.1521	2,226.1521	0.0427	0.0408	2,239.3810
Industrial Park	7738.57	0.0835	0.7587	0.6373	4.5500e-003		0.0577	0.0577		0.0577	0.0577		910.4196	910.4196	0.0175	0.0167	915.8298
Strip Mall	7409.92	0.0799	0.7265	0.6102	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.7552	871.7552	0.0167	0.0160	876.9356
Total		0.3674	3.2290	1.9896	0.0200		0.2539	0.2539		0.2539	0.2539		4,008.3269	4,008.3269	0.0768	0.0735	4,032.1464

Sausalito General Plan Update EIR - Marin 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					
Condo/Townhouse	13.899	0.1499	1.2809	0.5451	8.1800e-003		0.1036	0.1036		0.1036	0.1036		1,635.1761	1,635.1761	0.0313	0.0300	1,644.8931
Industrial Park	5.5383	0.0597	0.5430	0.4561	3.2600e-003		0.0413	0.0413		0.0413	0.0413		651.5647	651.5647	0.0125	0.0120	655.4366
Strip Mall	5.52522	0.0596	0.5417	0.4550	3.2500e-003		0.0412	0.0412		0.0412	0.0412		650.0262	650.0262	0.0125	0.0119	653.8890
Total		0.2692	2.3656	1.4562	0.0147		0.1860	0.1860		0.1860	0.1860		2,936.7669	2,936.7669	0.0563	0.0539	2,954.2187

6.0 Area Detail

6.1 Mitigation Measures Area

Sausalito General Plan Update EIR - Marin 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	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254
Unmitigated	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254

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	3.2700					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.2150					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6885	5.8833	2.5035	0.0376		0.4757	0.4757		0.4757	0.4757	0.0000	7,510.5882	7,510.5882	0.1440	0.1377	7,555.2199
Landscaping	0.7537	0.2889	25.0447	1.3300e-003		0.1394	0.1394		0.1394	0.1394		45.3206	45.3206	0.0434		46.4055
Total	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254

Sausalito General Plan Update EIR - Marin 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	3.2700					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.2150					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6885	5.8833	2.5035	0.0376		0.4757	0.4757		0.4757	0.4757	0.0000	7,510.5882	7,510.5882	0.1440	0.1377	7,555.2199
Landscaping	0.7537	0.2889	25.0447	1.3300e-003		0.1394	0.1394		0.1394	0.1394		45.3206	45.3206	0.0434		46.4055
Total	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

Sausalito General Plan Update EIR - Marin County, Summer

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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B.2 - Air Quality CalEEMod Winter Emissions Estimates

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Sausalito General Plan Update EIR - Marin County, Winter

Sausalito General Plan Update EIR
Marin County, Winter

1.0 Project Characteristics

1.1 Land Usage

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1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	69
Climate Zone	5			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	448.94	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Sausalito General Plan Update EIR - Marin County, Winter

Project Characteristics - PG&E default values based on 2008 Intensity factors of 30% renewables. Per SB 100 that requires 60% renewable, Intensity factors reduced by 30%

Land Use -

Woodstoves - Per BAAQMD Rule 6-3-306 no wood burning fireplaces shall be installed in new building construction

Energy Use -

Mobile Land Use Mitigation - Pedestrian Network provided throughout City. 0.1 mile avg dist to transit

Energy Mitigation - Per 2019 Title 24 Part 6 requirements exceed Title 24 by 30% and 30% lighting reduction

Water Mitigation - Install Low-Flow fixtures and Use Water-Efficient Irrigation

Waste Mitigation - 50% Reduction in waste per AB341 waste reduction requirements

Construction Phase -

Off-road Equipment - No Equipment

Trips and VMT - No construction

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tblFireplaces	NumberWood	51.68	0.00
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tblLandUse	LandUseSquareFeet	587,960.00	587,961.00
tblOffRoadEquipment	HorsePower	63.00	78.00
tblOffRoadEquipment	LoadFactor	0.31	0.48
tblOffRoadEquipment	OffRoadEquipmentType	Air Compressors	Aerial Lifts
tblOffRoadEquipment	PhaseName	Architectural Coating	Place Holder
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tblTripsAndVMT	WorkerTripNumber	94.00	0.00
tblWoodstoves	NumberCatalytic	6.08	0.00
tblWoodstoves	NumberNoncatalytic	6.08	0.00

2.0 Emissions Summary

Sausalito General Plan Update EIR - Marin 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	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254
Energy	0.3674	3.2290	1.9896	0.0200		0.2539	0.2539		0.2539	0.2539		4,008.3269	4,008.3269	0.0768	0.0735	4,032.1464
Mobile	15.0648	57.0892	162.2077	0.7327	98.9305	0.3599	99.2903	26.3969	0.3346	26.7315		74,294.7853	74,294.7853	2.1485		74,348.4978
Total	42.3594	66.4903	191.7454	0.7916	98.9305	1.2287	100.1592	26.3969	1.2035	27.6004	0.0000	85,859.0210	85,859.0210	2.4127	0.2112	85,982.2697

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	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254
Energy	0.2692	2.3656	1.4562	0.0147		0.1860	0.1860		0.1860	0.1860		2,936.7669	2,936.7669	0.0563	0.0538	2,954.2187
Mobile	13.8111	52.3992	136.5996	0.5781	76.3603	0.2941	76.6544	20.3747	0.2734	20.6480		58,641.8249	58,641.8249	1.7628		58,685.8956
Total	41.0074	60.9369	165.6040	0.6317	76.3603	1.0951	77.4554	20.3747	1.0744	21.4490	0.0000	69,134.5006	69,134.5006	2.0065	0.1915	69,241.7397

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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	3.19	8.35	13.63	20.20	22.81	10.87	22.67	22.81	10.73	22.29	0.00	19.48	19.48	16.84	9.30	19.47

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Place Holder	Trenching	8/23/2024	11/7/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 615,600; Residential Outdoor: 205,200; Non-Residential Indoor: 1,101,128; Non-Residential Outdoor: 367,043; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Place Holder	Aerial Lifts	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Place Holder	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Place Holder - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	217.0101					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	217.0101	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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3.2 Place Holder - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	217.0101					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	217.0101		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	13.8111	52.3992	136.5996	0.5781	76.3603	0.2941	76.6544	20.3747	0.2734	20.6480		58,641.82 49	58,641.82 49	1.7628		58,685.89 56
Unmitigated	15.0648	57.0892	162.2077	0.7327	98.9305	0.3599	99.2903	26.3969	0.3346	26.7315		74,294.78 53	74,294.78 53	2.1485		74,348.49 78

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,766.24	1,723.68	1471.36	3,967,985	3,062,720
Industrial Park	998.00	363.84	106.67	2,045,215	1,578,615
Strip Mall	26,058.39	24,717.84	12012.02	36,745,584	28,362,365
Total	28,822.63	26,805.36	13,590.05	42,758,783	33,003,700

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
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
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
Condo/Townhouse	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673
Industrial Park	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673
Strip Mall	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

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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					
NaturalGas Mitigated	0.2692	2.3656	1.4562	0.0147		0.1860	0.1860		0.1860	0.1860		2,936.7669	2,936.7669	0.0563	0.0538	2,954.2187
NaturalGas Unmitigated	0.3674	3.2290	1.9896	0.0200		0.2539	0.2539		0.2539	0.2539		4,008.3269	4,008.3269	0.0768	0.0735	4,032.1464

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	18922.3	0.2041	1.7438	0.7421	0.0111		0.1410	0.1410		0.1410	0.1410		2,226.1521	2,226.1521	0.0427	0.0408	2,239.3810
Industrial Park	7738.57	0.0835	0.7587	0.6373	4.5500e-003		0.0577	0.0577		0.0577	0.0577		910.4196	910.4196	0.0175	0.0167	915.8298
Strip Mall	7409.92	0.0799	0.7265	0.6102	4.3600e-003		0.0552	0.0552		0.0552	0.0552		871.7552	871.7552	0.0167	0.0160	876.9356
Total		0.3674	3.2290	1.9896	0.0200		0.2539	0.2539		0.2539	0.2539		4,008.3269	4,008.3269	0.0768	0.0735	4,032.1464

Sausalito General Plan Update EIR - Marin 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					
Condo/Townhouse	13.899	0.1499	1.2809	0.5451	8.1800e-003		0.1036	0.1036		0.1036	0.1036		1,635.1761	1,635.1761	0.0313	0.0300	1,644.8931
Industrial Park	5.5383	0.0597	0.5430	0.4561	3.2600e-003		0.0413	0.0413		0.0413	0.0413		651.5647	651.5647	0.0125	0.0120	655.4366
Strip Mall	5.52522	0.0596	0.5417	0.4550	3.2500e-003		0.0412	0.0412		0.0412	0.0412		650.0262	650.0262	0.0125	0.0119	653.8890
Total		0.2692	2.3656	1.4562	0.0147		0.1860	0.1860		0.1860	0.1860		2,936.7669	2,936.7669	0.0563	0.0539	2,954.2187

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	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254
Unmitigated	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254

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	3.2700					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.2150					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6885	5.8833	2.5035	0.0376		0.4757	0.4757		0.4757	0.4757	0.0000	7,510.5882	7,510.5882	0.1440	0.1377	7,555.2199
Landscaping	0.7537	0.2889	25.0447	1.3300e-003		0.1394	0.1394		0.1394	0.1394		45.3206	45.3206	0.0434		46.4055
Total	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254

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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	3.2700					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	22.2150					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6885	5.8833	2.5035	0.0376		0.4757	0.4757		0.4757	0.4757	0.0000	7,510.5882	7,510.5882	0.1440	0.1377	7,555.2199
Landscaping	0.7537	0.2889	25.0447	1.3300e-003		0.1394	0.1394		0.1394	0.1394		45.3206	45.3206	0.0434		46.4055
Total	26.9272	6.1722	27.5482	0.0389		0.6150	0.6150		0.6150	0.6150	0.0000	7,555.9088	7,555.9088	0.1874	0.1377	7,601.6254

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

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B.3 - Air Quality CalEEMod Annual Emissions Estimates

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Sausalito General Plan Update EIR
Marin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	146.12	1000sqft	3.35	146,124.00	0
Condo/Townhouse	304.00	Dwelling Unit	19.00	304,000.00	869
Strip Mall	587.96	1000sqft	13.50	587,961.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	69
Climate Zone	5			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	448.94	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - PG&E default values based on 2008 Intensity factors of 30% renewables. Per SB 100 that requires 60% renewable, Intensity factors reduced by 30%

Land Use -

Woodstoves - Per BAAQMD Rule 6-3-306 no wood burning fireplaces shall be installed in new building construction

Energy Use -

Mobile Land Use Mitigation - Pedestrian Network provided throughout City. 0.1 mile avg dist to transit

Energy Mitigation - Per 2019 Title 24 Part 6 requirements exceed Title 24 by 30% and 30% lighting reduction

Water Mitigation - Install Low-Flow fixtures and Use Water-Efficient Irrigation

Waste Mitigation - 50% Reduction in waste per AB341 waste reduction requirements

Construction Phase -

Off-road Equipment - No Equipment

Trips and VMT - No construction

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	PhaseName	Architectural Coating	Place Holder
tblFireplaces	NumberGas	45.60	304.00
tblFireplaces	NumberNoFireplace	12.16	0.00
tblFireplaces	NumberWood	51.68	0.00
tblLandUse	LandUseSquareFeet	146,120.00	146,124.00
tblLandUse	LandUseSquareFeet	587,960.00	587,961.00
tblOffRoadEquipment	HorsePower	63.00	78.00
tblOffRoadEquipment	LoadFactor	0.31	0.48
tblOffRoadEquipment	OffRoadEquipmentType	Air Compressors	Aerial Lifts
tblOffRoadEquipment	PhaseName	Architectural Coating	Place Holder
tblOnRoadDust	PhaseName	Architectural Coating	Place Holder
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	641.35	448.94
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblTripsAndVMT	PhaseName	Architectural Coating	Place Holder
tblTripsAndVMT	WorkerTripNumber	94.00	0.00
tblWoodstoves	NumberCatalytic	6.08	0.00
tblWoodstoves	NumberNoncatalytic	6.08	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
15	7-1-2024	9-30-2024	3.0226	3.0226
		Highest	3.0226	3.0226

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	4.7227	0.0588	2.2680	3.3000e-004		0.0152	0.0152		0.0152	0.0152	0.0000	41.6514	41.6514	4.2700e-003	7.0000e-004	41.9655
Energy	0.0671	0.5893	0.3631	3.6600e-003		0.0463	0.0463		0.0463	0.0463	0.0000	2,599.3138	2,599.3138	0.0990	0.0294	2,610.5528
Mobile	2.5248	9.3918	25.8394	0.1225	15.7733	0.0597	15.8330	4.2229	0.0555	4.2784	0.0000	11,268.9806	11,268.9806	0.3172	0.0000	11,276.9101
Waste						0.0000	0.0000		0.0000	0.0000	190.4847	0.0000	190.4847	11.2573	0.0000	471.9178
Water						0.0000	0.0000		0.0000	0.0000	30.8208	134.9701	165.7909	3.1716	0.0760	267.7139
Total	7.3145	10.0398	28.4705	0.1265	15.7733	0.1212	15.8945	4.2229	0.1170	4.3400	221.3055	14,044.9159	14,266.2214	14.8493	0.1061	14,669.0601

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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	4.7227	0.0588	2.2680	3.3000e-004		0.0152	0.0152		0.0152	0.0152	0.0000	41.6514	41.6514	4.2700e-003	7.0000e-004	41.9655
Energy	0.0491	0.4317	0.2658	2.6800e-003		0.0339	0.0339		0.0339	0.0339	0.0000	2,075.2137	2,075.2137	0.0801	0.0231	2,084.0918
Mobile	2.3191	8.6447	21.6428	0.0967	12.1747	0.0488	12.2235	3.2595	0.0453	3.3048	0.0000	8,902.5796	8,902.5796	0.2595	0.0000	8,909.0678
Waste						0.0000	0.0000		0.0000	0.0000	95.2423	0.0000	95.2423	5.6287	0.0000	235.9589
Water						0.0000	0.0000		0.0000	0.0000	24.6567	111.8576	136.5142	2.5375	0.0608	218.0672
Total	7.0909	9.1351	24.1765	0.0997	12.1747	0.0979	12.2726	3.2595	0.0945	3.3540	119.8990	11,131.3023	11,251.2013	8.5100	0.0846	11,489.1512

	ROG	NOx	CO	SO2	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	3.06	9.01	15.08	21.14	22.81	19.22	22.79	22.81	19.28	22.72	45.82	20.74	21.13	42.69	20.27	21.68

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Place Holder	Trenching	8/23/2024	11/7/2024	5	55	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 615,600; Residential Outdoor: 205,200; Non-Residential Indoor: 1,101,128; Non-Residential Outdoor: 367,043; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Place Holder	Aerial Lifts	1	0.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Place Holder	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Place Holder - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.9678					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.9678		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	2.3191	8.6447	21.6428	0.0967	12.1747	0.0488	12.2235	3.2595	0.0453	3.3048	0.0000	8,902.5796	8,902.5796	0.2595	0.0000	8,909.0678
Unmitigated	2.5248	9.3918	25.8394	0.1225	15.7733	0.0597	15.8330	4.2229	0.0555	4.2784	0.0000	11,268.9806	11,268.9806	0.3172	0.0000	11,276.9101

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	1,766.24	1,723.68	1471.36	3,967,985	3,062,720
Industrial Park	998.00	363.84	106.67	2,045,215	1,578,615
Strip Mall	26,058.39	24,717.84	12012.02	36,745,584	28,362,365
Total	28,822.63	26,805.36	13,590.05	42,758,783	33,003,700

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
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
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
Condo/Townhouse	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673
Industrial Park	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673
Strip Mall	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

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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	1,588.9990	1,588.9990	0.0708	0.0142	1,594.9878
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	1,935.6903	1,935.6903	0.0862	0.0173	1,942.9857
Natural Gas Mitigated	0.0491	0.4317	0.2658	2.6800e-003			0.0339	0.0339		0.0339	0.0339	486.2147	486.2147	9.3200e-003	8.9100e-003	489.1040
Natural Gas Unmitigated	0.0671	0.5893	0.3631	3.6600e-003			0.0463	0.0463		0.0463	0.0463	663.6235	663.6235	0.0127	0.0122	667.5671

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	6.90664e+006	0.0372	0.3183	0.1354	2.0300e-003		0.0257	0.0257		0.0257	0.0257	0.0000	368.5644	368.5644	7.0600e-003	6.7600e-003	370.7546
Industrial Park	2.82458e+006	0.0152	0.1385	0.1163	8.3000e-004		0.0105	0.0105		0.0105	0.0105	0.0000	150.7302	150.7302	2.8900e-003	2.7600e-003	151.6259
Strip Mall	2.70462e+006	0.0146	0.1326	0.1114	8.0000e-004		0.0101	0.0101		0.0101	0.0101	0.0000	144.3289	144.3289	2.7700e-003	2.6500e-003	145.1865
Total		0.0671	0.5893	0.3631	3.6600e-003		0.0463	0.0463		0.0463	0.0463	0.0000	663.6235	663.6235	0.0127	0.0122	667.5671

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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					
Condo/Townhouse	5.07313e+006	0.0274	0.2338	0.0995	1.4900e-003		0.0189	0.0189		0.0189	0.0189	0.0000	270.7217	270.7217	5.1900e-003	4.9600e-003	272.3305
Industrial Park	2.02148e+006	0.0109	0.0991	0.0832	5.9000e-004		7.5300e-003	7.5300e-003		7.5300e-003	7.5300e-003	0.0000	107.8738	107.8738	2.0700e-003	1.9800e-003	108.5149
Strip Mall	2.01671e+006	0.0109	0.0989	0.0830	5.9000e-004		7.5100e-003	7.5100e-003		7.5100e-003	7.5100e-003	0.0000	107.6191	107.6191	2.0600e-003	1.9700e-003	108.2587
Total		0.0491	0.4317	0.2658	2.6700e-003		0.0339	0.0339		0.0339	0.0339	0.0000	486.2147	486.2147	9.3200e-003	8.9100e-003	489.1040

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	1.52019e+006	309.5654	0.0138	2.7600e-003	310.7321
Industrial Park	1.82363e+006	371.3558	0.0165	3.3100e-003	372.7554
Strip Mall	6.16183e+006	1,254.7692	0.0559	0.0112	1,259.4983
Total		1,935.6903	0.0862	0.0173	1,942.9857

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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			
Condo/Townhouse	1.41024e+006	287.1751	0.0128	2.5600e-003	288.2574
Industrial Park	1.48696e+006	302.7978	0.0135	2.7000e-003	303.9390
Strip Mall	4.90595e+006	999.0262	0.0445	8.9000e-003	1,002.7914
Total		1,588.9990	0.0708	0.0142	1,594.9878

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	4.7227	0.0588	2.2680	3.3000e-004		0.0152	0.0152		0.0152	0.0152	0.0000	41.6514	41.6514	4.2700e-003	7.0000e-004	41.9655
Unmitigated	4.7227	0.0588	2.2680	3.3000e-004		0.0152	0.0152		0.0152	0.0152	0.0000	41.6514	41.6514	4.2700e-003	7.0000e-004	41.9655

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.8300e-003	0.0328	0.0139	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	37.9512	37.9512	7.3000e-004	7.0000e-004	38.1767
Landscaping	0.0678	0.0260	2.2540	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.7003	3.7003	3.5400e-003	0.0000	3.7889
Total	4.7227	0.0588	2.2680	3.3000e-004		0.0152	0.0152		0.0152	0.0152	0.0000	41.6514	41.6514	4.2700e-003	7.0000e-004	41.9655

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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	0.5968					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.0542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.8300e-003	0.0328	0.0139	2.1000e-004		2.6500e-003	2.6500e-003		2.6500e-003	2.6500e-003	0.0000	37.9512	37.9512	7.3000e-004	7.0000e-004	38.1767
Landscaping	0.0678	0.0260	2.2540	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.7003	3.7003	3.5400e-003	0.0000	3.7889
Total	4.7227	0.0588	2.2680	3.3000e-004		0.0152	0.0152		0.0152	0.0152	0.0000	41.6514	41.6514	4.2700e-003	7.0000e-004	41.9655

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	136.5142	2.5375	0.0608	218.0672
Unmitigated	165.7909	3.1716	0.0760	267.7139

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	19.8068 / 12.4869	37.0081	0.6468	0.0155	57.8004
Industrial Park	33.7903 / 0	47.9527	1.1027	0.0263	83.3669
Strip Mall	43.5517 / 26.693	80.8301	1.4221	0.0341	126.5466
Total		165.7909	3.1716	0.0760	267.7139

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	15.8455 / 11.7252	30.8436	0.5175	0.0124	47.4821
Industrial Park	27.0322 / 0	38.3621	0.8822	0.0211	66.6935
Strip Mall	34.8413 / 25.0647	67.3085	1.1378	0.0273	103.8917
Total		136.5142	2.5375	0.0608	218.0672

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	95.2423	5.6287	0.0000	235.9589
Unmitigated	190.4847	11.2573	0.0000	471.9178

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	139.84	28.3863	1.6776	0.0000	70.3258
Industrial Park	181.19	36.7799	2.1736	0.0000	91.1207
Strip Mall	617.36	125.3185	7.4061	0.0000	310.4713
Total		190.4847	11.2573	0.0000	471.9178

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	69.92	14.1931	0.8388	0.0000	35.1629
Industrial Park	90.595	18.3900	1.0868	0.0000	45.5604
Strip Mall	308.68	62.6593	3.7031	0.0000	155.2356
Total		95.2424	5.6287	0.0000	235.9589

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

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B.4 - GHG Emissions CalEEMod 2040 Buildout Annual Emissions Estimates

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Industrial Park	1,265.96	1000sqft	29.06	1,265,960.00	0
Condo/Townhouse	5,134.00	Dwelling Unit	320.88	5,134,000.00	14683
Strip Mall	1,595.48	1000sqft	36.63	1,595,484.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	69
Climate Zone	5			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	448.94	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

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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											0.0000	677.6532	677.6532	0.0712	0.0113	682.7949
Energy											0.0000	19,772.0832	19,772.0832	0.6798	0.2508	19,863.8210
Mobile											0.0000	48,161.4550	48,161.4550	1.3360	0.0000	48,194.8541
Waste											1,138.1054	0.0000	1,138.1054	67.2601	0.0000	2,819.6079
Water											236.4922	1,023.3005	1,259.7927	24.3356	0.5827	2,041.8147
Total											1,374.5976	69,634.4919	71,009.0895	93.6826	0.8448	73,602.8926

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	677.6532	677.6532	0.0712	0.0113	682.7949
Energy											0.0000	15,982.7241	15,982.7241	0.5648	0.1971	16,055.5650
Mobile											0.0000	37,953.7825	37,953.7825	1.0873	0.0000	37,980.9639
Waste											569.0527	0.0000	569.0527	33.6301	0.0000	1,409.8039
Water											189.1938	846.7080	1,035.9018	19.4697	0.4664	1,661.6252
Total											758.2465	55,460.8678	56,219.1143	54.8231	0.6747	57,790.7529

	ROG	NOx	CO	SO2	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	44.84	20.35	20.83	41.48	20.13	21.48

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Place Holder	Trenching	1/1/2021	1/2/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
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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
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3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

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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											0.0000	37,953.78 25	37,953.78 25	1.0873	0.0000	37,980.96 39
Unmitigated											0.0000	48,161.45 50	48,161.45 50	1.3360	0.0000	48,194.85 41

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	29,828.54	29,109.78	24848.56	67,011,949	51,723,696
Industrial Park	8,646.51	3,152.24	924.15	17,719,411	13,676,866
Strip Mall	70,711.67	67,073.98	32595.66	99,712,300	76,963,717
Total	109,186.72	99,336.00	58,368.37	184,443,661	142,364,278

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Industrial Park	9.50	7.30	7.30	59.00	28.00	13.00	79	19	2
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673
Industrial Park	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673
Strip Mall	0.608155	0.036349	0.195929	0.105551	0.011757	0.005346	0.011845	0.014259	0.002138	0.001733	0.005453	0.000811	0.000673

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	10,184.1228	10,184.1228	0.4537	0.0907	10,222.5055
Electricity Unmitigated											0.0000	11,850.1935	11,850.1935	0.5279	0.1056	11,894.8555
NaturalGas Mitigated											0.0000	5,798.6013	5,798.6013	0.1111	0.1063	5,833.0595
NaturalGas Unmitigated											0.0000	7,921.8897	7,921.8897	0.1518	0.1452	7,968.9655

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	1.1664e+008											0.0000	6,224.3745	6,224.3745	0.1193	0.1141	6,261.3628
Industrial Park	2.4471e+007											0.0000	1,305.8661	1,305.8661	0.0250	0.0239	1,313.6262
Strip Mall	7.33923e+006											0.0000	391.6491	391.6491	7.5100e-003	7.1800e-003	393.9764
Total												0.0000	7,921.8897	7,921.8897	0.1518	0.1452	7,968.9655

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	8.56759e+007											0.0000	4,571.9914	4,571.9914	0.0876	0.0838	4,599.1605
Industrial Park	1.75133e+007											0.0000	934.5759	934.5759	0.0179	0.0171	940.1296
Strip Mall	5.47251e+006											0.0000	292.0340	292.0340	5.6000e-003	5.3500e-003	293.7694
Total												0.0000	5,798.6013	5,798.6013	0.1111	0.1063	5,833.0595

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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			
Condo/Townhouse	2.56732e+007	5,227.9886	0.2329	0.0466	5,247.6922
Industrial Park	1.57992e+007	3,217.2782	0.1433	0.0287	3,229.4037
Strip Mall	1.67207e+007	3,404.9268	0.1517	0.0303	3,417.7595
Total		11,850.1935	0.5279	0.1056	11,894.8555

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	2.38163e+007	4,849.8582	0.2161	0.0432	4,868.1367
Industrial Park	1.28824e+007	2,623.3191	0.1169	0.0234	2,633.2061
Strip Mall	1.33127e+007	2,710.9455	0.1208	0.0242	2,721.1628
Total		10,184.1228	0.4537	0.0907	10,222.5055

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	677.6532	677.6532	0.0712	0.0113	682.7949
Unmitigated											0.0000	677.6532	677.6532	0.0712	0.0113	682.7949

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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	615.3329	615.3329	0.0118	0.0113	618.9895
Landscaping											0.0000	62.3204	62.3204	0.0594	0.0000	63.8054
Total											0.0000	677.6532	677.6532	0.0712	0.0113	682.7949

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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											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth											0.0000	615.3329	615.3329	0.0118	0.0113	618.9895
Landscaping											0.0000	62.3204	62.3204	0.0594	0.0000	63.8054
Total											0.0000	677.6532	677.6532	0.0712	0.0113	682.7949

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,035.9018	19.4697	0.4664	1,661.6252
Unmitigated	1,259.7927	24.3356	0.5827	2,041.8147

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	334.501 / 210.881	624.9992	10.9228	0.2620	976.1426
Industrial Park	292.753 / 0	415.4540	9.5537	0.2281	722.2771
Strip Mall	118.181 / 72.4337	219.3395	3.8590	0.0926	343.3951
Total		1,259.7927	24.3356	0.5827	2,041.8147

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	267.601 / 198.017	520.8911	8.7392	0.2098	801.8845
Industrial Park	234.203 / 0	332.3632	7.6430	0.1825	577.8217
Strip Mall	94.545 / 68.0152	182.6475	3.0876	0.0741	281.9190
Total		1,035.9018	19.4697	0.4664	1,661.6252

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	569.0527	33.6301	0.0000	1,409.8039
Unmitigated	1,138.1054	67.2601	0.0000	2,819.6079

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	2361.64	479.3916	28.3312	0.0000	1,187.6723
Industrial Park	1569.79	318.6532	18.8319	0.0000	789.4498
Strip Mall	1675.25	340.0606	20.0970	0.0000	842.4858
Total		1,138.1054	67.2601	0.0000	2,819.6079

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	1180.82	239.6958	14.1656	0.0000	593.8362
Industrial Park	784.895	159.3266	9.4159	0.0000	394.7249
Strip Mall	837.625	170.0303	10.0485	0.0000	421.2429
Total		569.0527	33.6301	0.0000	1,409.8039

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

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