

Hotel Sonoma Proposed Project Weekday Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

Hotel Sonoma Proposed Project Weekday Operations (2030) (LEED Features)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	37.66	1000sqft	0.00	37,655.00	0
Other Non-Asphalt Surfaces	22.48	1000sqft	0.52	22,483.00	0
Parking Lot	21.00	Space	0.10	4,479.00	0
Hotel	62.00	Room	0.62	67,478.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	175.52	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - PG&E carbon intensity updated per RPS standards of 60% by 2030 - conservatively assuming 2016 Power Content Label sources and fractions.

Land Use - Hotel sq. footage includes support building, hotel, spa. Parking structure in basement of hotel. Other non-asphalt surfaces include patio areas and courtyards.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading -

Architectural Coating - Operations run only.

Vehicle Trips - Based on 479 daily trips associated with proposed project and 18.6-mile trip length for weekdays. Weekend trips calculated in separate run.

Energy Use - Total electricity usage included in hotel land use based on 123,120 kWh/month.

Water And Wastewater - Based on 2015 water analysis.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - On-site renewable energy, kWh generated unknown at this time.

Water Mitigation - Applies 30% water reduction based on Water Analysis (2015).

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes one 350 kW emergency generator. 50 hours per year for maintenance and testing purposes.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	33,739.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,217.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,877.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.35	6.75
tblEnergyUse	LightingElect	0.35	0.00

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tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	3.22	9.25
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.05	5.89
tblLandUse	LandUseSquareFeet	37,660.00	37,655.00
tblLandUse	LandUseSquareFeet	22,480.00	22,483.00
tblLandUse	LandUseSquareFeet	8,400.00	4,479.00
tblLandUse	LandUseSquareFeet	90,024.00	67,478.00
tblLandUse	LotAcreage	0.86	0.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	2.07	0.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	175.52
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	7.30	18.60
tblVehicleTrips	CNW_TL	7.30	18.60
tblVehicleTrips	CW_TL	9.50	18.60
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	58.00	100.00

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tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	WD_TR	8.17	7.73
tblWater	IndoorWaterUseRate	1,572,739.74	8,100,000.00
tblWater	OutdoorWaterUseRate	174,748.86	100,000.00

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	277.1532	277.1532	0.0225	6.9500e-003	279.7851
Mobile	0.1012	0.6529	1.5924	8.0800e-003	0.8583	5.3700e-003	0.8637	0.2308	5.0100e-003	0.2358	0.0000	747.2683	747.2683	0.0217	0.0000	747.8095
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	3.5173	6.0871	0.2645	6.3500e-003	14.5931
Total	0.4435	0.8603	1.7723	9.0600e-003	0.8583	0.0197	0.8780	0.2308	0.0194	0.2501	9.4613	1,038.0325	1,047.4938	0.7174	0.0133	1,069.3904

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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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	277.1532	277.1532	0.0225	6.9500e-003	279.7851
Mobile	0.1012	0.6529	1.5924	8.0800e-003	0.8583	5.3700e-003	0.8637	0.2308	5.0100e-003	0.2358	0.0000	747.2683	747.2683	0.0217	0.0000	747.8095
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	1.7988	2.4621	4.2609	0.1852	4.4500e-003	10.2151
Total	0.4435	0.8603	1.7723	9.0600e-003	0.8583	0.0197	0.8780	0.2308	0.0194	0.2501	8.6904	1,036.9773	1,045.6677	0.6380	0.0114	1,065.0125

	ROG	NOx	CO	SO2	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	8.15	0.10	0.17	11.06	14.29	0.41

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/10/2019	8/13/2019	5	2	
2	Architectural Coating	Architectural Coating	6/9/2020	6/22/2020	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.62

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	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 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

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3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

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3.3 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

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3.3 Architectural Coating - 2020**Mitigated Construction On-Site**

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

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

	ROG	NOx	CO	SO2	Fugitive 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	0.1012	0.6529	1.5924	8.0800e-003	0.8583	5.3700e-003	0.8637	0.2308	5.0100e-003	0.2358	0.0000	747.2683	747.2683	0.0217	0.0000	747.8095
Unmitigated	0.1012	0.6529	1.5924	8.0800e-003	0.8583	5.3700e-003	0.8637	0.2308	5.0100e-003	0.2358	0.0000	747.2683	747.2683	0.0217	0.0000	747.8095

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	479.00	0.00	0.00	2,316,444	2,316,444
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	479.00	0.00	0.00	2,316,444	2,316,444

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	18.60	18.60	18.60	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Hotel	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Other Non-Asphalt Surfaces	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Parking Lot	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662

5.0 Energy Detail

Historical Energy Use: N

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	117.5981	117.5981	0.0194	4.0200e-003	119.2818
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	117.5981	117.5981	0.0194	4.0200e-003	119.2818
NaturalGas Mitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
NaturalGas Unmitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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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			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	117.5981	0.0194	4.0200e-003	119.2818
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		117.5981	0.0194	4.0200e-003	119.2818

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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			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	117.5981	0.0194	4.0200e-003	119.2818
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		117.5981	0.0194	4.0200e-003	119.2818

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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Unmitigated	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

Hotel Sonoma Proposed Project Weekday Operations (2030) (LEED Features) - Sonoma-San Francisco 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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Hotel Sonoma Proposed Project Weekday Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.2609	0.1852	4.4500e-003	10.2151
Unmitigated	6.0871	0.2645	6.3500e-003	14.5931

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	6.0871	0.2645	6.3500e-003	14.5931
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		6.0871	0.2645	6.3500e-003	14.5931

Hotel Sonoma Proposed Project Weekday Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	5.67 / 0.07	4.2609	0.1852	4.4500e-003	10.2151
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.2609	0.1852	4.4500e-003	10.2151

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hotel Sonoma Proposed Project Weekday Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8915	0.4073	0.0000	17.0735
Unmitigated	6.8915	0.4073	0.0000	17.0735

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

Hotel Sonoma Proposed Project Weekday Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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
Emergency Generator	1	0	50	530	0.73	Diesel

Boilers

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

Hotel Sonoma Proposed Project Weekday Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

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

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Total	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265

11.0 Vegetation

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

Hotel Sonoma Proposed Project Weekday Operations (LEED Features)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	37.66	1000sqft	0.00	37,655.00	0
Other Non-Asphalt Surfaces	22.48	1000sqft	0.52	22,483.00	0
Parking Lot	21.00	Space	0.10	4,479.00	0
Hotel	62.00	Room	0.62	67,478.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	294	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

Project Characteristics - PG&E 2016 CO2 intensity rate of 294 lbs/MWh from 2018 PG&E CRSR, conservatively assumed to remain constant for 2021 operational year.

Land Use - Hotel sq. footage includes support building, hotel, spa. Parking structure in basement of hotel. Other non-asphalt surfaces include patio areas and courtyards.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading -

Architectural Coating - Operations run only.

Vehicle Trips - Based on 479 daily trips associated with proposed project and 18.6-mile trip length during weekdays. Weekend trips calculated in separate run.

Energy Use - Total electricity usage included in hotel land use based on 123,120 kWh/month.

Water And Wastewater - Based on 2015 water analysis.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - On-site renewable energy, kWh generated unknown at this time.

Water Mitigation - Applies 30% water reduction based on Water Analysis (2015).

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes one 350 kW emergency generator. 50 hours per year for maintenance and testing purposes.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	33,739.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,217.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,877.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.35	6.75
tblEnergyUse	LightingElect	0.35	0.00

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	3.22	9.25
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.05	5.89
tblLandUse	LandUseSquareFeet	37,660.00	37,655.00
tblLandUse	LandUseSquareFeet	22,480.00	22,483.00
tblLandUse	LandUseSquareFeet	8,400.00	4,479.00
tblLandUse	LandUseSquareFeet	90,024.00	67,478.00
tblLandUse	LotAcreage	0.86	0.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	2.07	0.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	7.30	18.60
tblVehicleTrips	CNW_TL	7.30	18.60
tblVehicleTrips	CW_TL	9.50	18.60
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	58.00	100.00

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	WD_TR	8.17	7.73
tblWater	IndoorWaterUseRate	1,572,739.74	8,100,000.00
tblWater	OutdoorWaterUseRate	174,748.86	100,000.00

2.0 Emissions Summary

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	356.5346	356.5346	0.0225	6.9500e-003	359.1665
Mobile	0.1919	1.2043	3.0137	0.0105	0.8596	0.0105	0.8701	0.2313	9.9100e-003	0.2412	0.0000	961.6680	961.6680	0.0359	0.0000	962.5646
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	5.8916	8.4613	0.2645	6.3500e-003	16.9673
Total	0.5341	1.4116	3.1936	0.0115	0.8596	0.0249	0.8845	0.2313	0.0243	0.2556	9.4613	1,334.1879	1,343.6492	0.7316	0.0133	1,365.9011

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco 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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	356.5346	356.5346	0.0225	6.9500e-003	359.1665
Mobile	0.1919	1.2043	3.0137	0.0105	0.8596	0.0105	0.8701	0.2313	9.9100e-003	0.2412	0.0000	961.6680	961.6680	0.0359	0.0000	962.5646
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	1.7988	4.1241	5.9229	0.1852	4.4500e-003	11.8771
Total	0.5341	1.4116	3.1936	0.0115	0.8596	0.0249	0.8845	0.2313	0.0243	0.2556	8.6904	1,332.4205	1,341.1108	0.6522	0.0114	1,360.8109

	ROG	NOx	CO	SO2	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	8.15	0.13	0.19	10.85	14.29	0.37

3.0 Construction Detail**Construction Phase**

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/10/2019	8/13/2019	5	2	
2	Architectural Coating	Architectural Coating	6/9/2020	6/22/2020	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.62

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020**Mitigated Construction On-Site**

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

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

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

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	0.1919	1.2043	3.0137	0.0105	0.8596	0.0105	0.8701	0.2313	9.9100e-003	0.2412	0.0000	961.6680	961.6680	0.0359	0.0000	962.5646
Unmitigated	0.1919	1.2043	3.0137	0.0105	0.8596	0.0105	0.8701	0.2313	9.9100e-003	0.2412	0.0000	961.6680	961.6680	0.0359	0.0000	962.5646

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	479.00	0.00	0.00	2,316,444	2,316,444
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	479.00	0.00	0.00	2,316,444	2,316,444

4.3 Trip Type Information

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	18.60	18.60	18.60	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Hotel	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Other Non-Asphalt Surfaces	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Parking Lot	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	196.9795	196.9795	0.0194	4.0200e-003	198.6632
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	196.9795	196.9795	0.0194	4.0200e-003	198.6632
NaturalGas Mitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
NaturalGas Unmitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	196.9795	0.0194	4.0200e-003	198.6632
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		196.9795	0.0194	4.0200e-003	198.6632

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	196.9795	0.0194	4.0200e-003	198.6632
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		196.9795	0.0194	4.0200e-003	198.6632

6.0 Area Detail**6.1 Mitigation Measures Area**

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Unmitigated	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco 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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.9229	0.1852	4.4500e-003	11.8771
Unmitigated	8.4613	0.2645	6.3500e-003	16.9673

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	8.4613	0.2645	6.3500e-003	16.9673
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.4613	0.2645	6.3500e-003	16.9673

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	5.67 / 0.07	5.9229	0.1852	4.4500e-003	11.8771
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.9229	0.1852	4.4500e-003	11.8771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8915	0.4073	0.0000	17.0735
Unmitigated	6.8915	0.4073	0.0000	17.0735

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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
Emergency Generator	1	0	50	530	0.73	Diesel

Boilers

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

Hotel Sonoma Proposed Project Weekday Operations (LEED Features) - Sonoma-San Francisco County, Annual

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Total	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265

11.0 Vegetation

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

Hotel Sonoma Proposed Project Weekday Operations (2030)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	37.66	1000sqft	0.00	37,655.00	0
Other Non-Asphalt Surfaces	22.48	1000sqft	0.52	22,483.00	0
Parking Lot	21.00	Space	0.10	4,479.00	0
Hotel	62.00	Room	0.62	67,478.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	175.52	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

Project Characteristics - PG&E carbon intensity updated per RPS standards of 60% by 2030 - conservatively assuming 2016 Power Content Label sources and fractions.

Land Use - Hotel sq. footage includes support building, hotel, spa. Parking structure in basement of hotel. Other non-asphalt surfaces include patio areas and courtyards.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading -

Architectural Coating - Operations run only.

Vehicle Trips - Based on 479 daily trips associated with proposed project and 18.6-mile trip length during weekdays. Weekend trip lengths calculated separately.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Total electricity usage included in hotel land use based on 123,120 kWh/month.

Water And Wastewater - Based on 2015 water analysis.

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes one 350 kW emergency generator. 50 hours per year for maintenance and testing purposes.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	33,739.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,217.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,877.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.35	6.75
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	3.22	9.25

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tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.05	5.89
tblLandUse	LandUseSquareFeet	37,660.00	37,655.00
tblLandUse	LandUseSquareFeet	22,480.00	22,483.00
tblLandUse	LandUseSquareFeet	8,400.00	4,479.00
tblLandUse	LandUseSquareFeet	90,024.00	67,478.00
tblLandUse	LotAcreage	0.86	0.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	2.07	0.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	175.52
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	7.30	18.60
tblVehicleTrips	CNW_TL	7.30	18.60
tblVehicleTrips	CW_TL	9.50	18.60
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	SU_TR	5.95	0.00

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

tblVehicleTrips	WD_TR	8.17	7.73
tblWater	IndoorWaterUseRate	1,572,739.74	8,100,000.00
tblWater	OutdoorWaterUseRate	174,748.86	100,000.00

2.0 Emissions Summary

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	277.1532	277.1532	0.0225	6.9500e-003	279.7851
Mobile	0.1012	0.6529	1.5924	8.0800e-003	0.8583	5.3700e-003	0.8637	0.2308	5.0100e-003	0.2358	0.0000	747.2683	747.2683	0.0217	0.0000	747.8095
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	3.5173	6.0871	0.2645	6.3500e-003	14.5931
Total	0.4435	0.8603	1.7723	9.0600e-003	0.8583	0.0197	0.8780	0.2308	0.0194	0.2501	9.4613	1,038.0325	1,047.4938	0.7174	0.0133	1,069.3904

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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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	277.1532	277.1532	0.0225	6.9500e-003	279.7851
Mobile	0.1012	0.6529	1.5924	8.0800e-003	0.8583	5.3700e-003	0.8637	0.2308	5.0100e-003	0.2358	0.0000	747.2683	747.2683	0.0217	0.0000	747.8095
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	3.5173	6.0871	0.2645	6.3500e-003	14.5931
Total	0.4435	0.8603	1.7723	9.0600e-003	0.8583	0.0197	0.8780	0.2308	0.0194	0.2501	9.4613	1,038.0325	1,047.4938	0.7174	0.0133	1,069.3904

	ROG	NOx	CO	SO2	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**

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/10/2019	8/13/2019	5	2	
2	Architectural Coating	Architectural Coating	6/9/2020	6/22/2020	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.62

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020**Mitigated Construction On-Site**

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

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

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

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	0.1012	0.6529	1.5924	8.0800e-003	0.8583	5.3700e-003	0.8637	0.2308	5.0100e-003	0.2358	0.0000	747.2683	747.2683	0.0217	0.0000	747.8095
Unmitigated	0.1012	0.6529	1.5924	8.0800e-003	0.8583	5.3700e-003	0.8637	0.2308	5.0100e-003	0.2358	0.0000	747.2683	747.2683	0.0217	0.0000	747.8095

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	479.00	0.00	0.00	2,316,444	2,316,444
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	479.00	0.00	0.00	2,316,444	2,316,444

4.3 Trip Type Information

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	18.60	18.60	18.60	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Hotel	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Other Non-Asphalt Surfaces	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Parking Lot	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	117.5981	117.5981	0.0194	4.0200e-003	119.2818
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	117.5981	117.5981	0.0194	4.0200e-003	119.2818
NaturalGas Mitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
NaturalGas Unmitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	117.5981	0.0194	4.0200e-003	119.2818
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		117.5981	0.0194	4.0200e-003	119.2818

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	117.5981	0.0194	4.0200e-003	119.2818
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		117.5981	0.0194	4.0200e-003	119.2818

6.0 Area Detail**6.1 Mitigation Measures Area**

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Unmitigated	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco 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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.0871	0.2645	6.3500e-003	14.5931
Unmitigated	6.0871	0.2645	6.3500e-003	14.5931

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	6.0871	0.2645	6.3500e-003	14.5931
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		6.0871	0.2645	6.3500e-003	14.5931

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	6.0871	0.2645	6.3500e-003	14.5931
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		6.0871	0.2645	6.3500e-003	14.5931

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8915	0.4073	0.0000	17.0735
Unmitigated	6.8915	0.4073	0.0000	17.0735

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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
Emergency Generator	1	0	50	530	0.73	Diesel

Boilers

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

Hotel Sonoma Proposed Project Weekday Operations (2030) - Sonoma-San Francisco County, Annual

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Total	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265

11.0 Vegetation

Hotel Sonoma Proposed Project Weekday Operations - Sonoma-San Francisco County, Annual

Hotel Sonoma Proposed Project Weekday Operations

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	37.66	1000sqft	0.00	37,655.00	0
Other Non-Asphalt Surfaces	22.48	1000sqft	0.52	22,483.00	0
Parking Lot	21.00	Space	0.10	4,479.00	0
Hotel	62.00	Room	0.62	67,478.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	294	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Hotel Sonoma Proposed Project Weekday Operations - Sonoma-San Francisco County, Annual

Project Characteristics - PG&E 2016 CO2 intensity rate of 294 lbs/MWh from 2018 PG&E CRSR, conservatively assumed to remain constant for 2021 operational year.

Land Use - Hotel sq. footage includes support building, hotel, spa. Parking structure in basement of hotel. Other non-asphalt surfaces include patio areas and courtyards.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading -

Architectural Coating - Operations run only.

Vehicle Trips - Based on 479 daily trips associated with proposed project and 18.6-mile trip length during weekdays. Weekend trips calculated in separate run.

Energy Use - Total electricity usage included in hotel land use based on 123,120 kWh/month.

Water And Wastewater - Based on 2015 water analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Assumes one 350 kW emergency generator. 50 hours per year for maintenance and testing purposes.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	33,739.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,217.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,877.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.35	6.75
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	3.22	9.25
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.05	5.89
tblLandUse	LandUseSquareFeet	37,660.00	37,655.00
tblLandUse	LandUseSquareFeet	22,480.00	22,483.00

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tblLandUse	LandUseSquareFeet	8,400.00	4,479.00
tblLandUse	LandUseSquareFeet	90,024.00	67,478.00
tblLandUse	LotAcreage	0.86	0.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	2.07	0.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	7.30	18.60
tblVehicleTrips	CNW_TL	7.30	18.60
tblVehicleTrips	CW_TL	9.50	18.60
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	WD_TR	8.17	7.73
tblWater	IndoorWaterUseRate	1,572,739.74	8,100,000.00
tblWater	OutdoorWaterUseRate	174,748.86	100,000.00

Hotel Sonoma Proposed Project Weekday Operations - Sonoma-San Francisco County, Annual

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible]

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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

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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	356.5346	356.5346	0.0225	6.9500e-003	359.1665
Mobile	0.1919	1.2043	3.0137	0.0105	0.8596	0.0105	0.8701	0.2313	9.9100e-003	0.2412	0.0000	961.6680	961.6680	0.0359	0.0000	962.5646
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	5.8916	8.4613	0.2645	6.3500e-003	16.9673
Total	0.5341	1.4116	3.1936	0.0115	0.8596	0.0249	0.8845	0.2313	0.0243	0.2556	9.4613	1,334.1879	1,343.6492	0.7316	0.0133	1,365.9011

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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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	356.5346	356.5346	0.0225	6.9500e-003	359.1665
Mobile	0.1919	1.2043	3.0137	0.0105	0.8596	0.0105	0.8701	0.2313	9.9100e-003	0.2412	0.0000	961.6680	961.6680	0.0359	0.0000	962.5646
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	5.8916	8.4613	0.2645	6.3500e-003	16.9673
Total	0.5341	1.4116	3.1936	0.0115	0.8596	0.0249	0.8845	0.2313	0.0243	0.2556	9.4613	1,334.1879	1,343.6492	0.7316	0.0133	1,365.9011

	ROG	NOx	CO	SO2	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/10/2019	8/13/2019	5	2	
2	Architectural Coating	Architectural Coating	6/9/2020	6/22/2020	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.62

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	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 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

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3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

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3.3 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

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3.3 Architectural Coating - 2020**Mitigated Construction On-Site**

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

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

	ROG	NOx	CO	SO2	Fugitive 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	0.1919	1.2043	3.0137	0.0105	0.8596	0.0105	0.8701	0.2313	9.9100e-003	0.2412	0.0000	961.6680	961.6680	0.0359	0.0000	962.5646
Unmitigated	0.1919	1.2043	3.0137	0.0105	0.8596	0.0105	0.8701	0.2313	9.9100e-003	0.2412	0.0000	961.6680	961.6680	0.0359	0.0000	962.5646

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	479.00	0.00	0.00	2,316,444	2,316,444
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	479.00	0.00	0.00	2,316,444	2,316,444

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	18.60	18.60	18.60	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Hotel	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Other Non-Asphalt Surfaces	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Parking Lot	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hotel Sonoma Proposed Project Weekday Operations - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	196.9795	196.9795	0.0194	4.0200e-003	198.6632
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	196.9795	196.9795	0.0194	4.0200e-003	198.6632
NaturalGas Mitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
NaturalGas Unmitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekday Operations - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	196.9795	0.0194	4.0200e-003	198.6632
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		196.9795	0.0194	4.0200e-003	198.6632

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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			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	196.9795	0.0194	4.0200e-003	198.6632
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		196.9795	0.0194	4.0200e-003	198.6632

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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Unmitigated	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

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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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.4613	0.2645	6.3500e-003	16.9673
Unmitigated	8.4613	0.2645	6.3500e-003	16.9673

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	8.4613	0.2645	6.3500e-003	16.9673
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.4613	0.2645	6.3500e-003	16.9673

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	8.4613	0.2645	6.3500e-003	16.9673
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.4613	0.2645	6.3500e-003	16.9673

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hotel Sonoma Proposed Project Weekday Operations - Sonoma-San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8915	0.4073	0.0000	17.0735
Unmitigated	6.8915	0.4073	0.0000	17.0735

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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
Emergency Generator	1	0	50	530	0.73	Diesel

Boilers

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

Hotel Sonoma Proposed Project Weekday Operations - Sonoma-San Francisco County, Annual

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Total	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265

11.0 Vegetation

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	37.66	1000sqft	0.00	37,655.00	0
Other Non-Asphalt Surfaces	22.48	1000sqft	0.52	22,483.00	0
Parking Lot	21.00	Space	0.10	4,479.00	0
Hotel	62.00	Room	0.62	67,478.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	175.52	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - PG&E carbon intensity updated per RPS standards of 60% by 2030 - conservatively assuming 2016 Power Content Label sources and fractions.

Land Use - Hotel sq. footage includes support building, hotel, spa. Parking structure in basement of hotel. Other non-asphalt surfaces include patio areas and courtyards.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading -

Architectural Coating - Operations run only.

Vehicle Trips - Based on trip rates associated with proposed project and 20.9-mile trip length for weekend days. Weekday trips calculated in separate run.

Energy Use - Total electricity usage included in hotel land use based on 123,120 kWh/month.

Water And Wastewater - Based on 2015 water analysis.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - On-site renewable energy, kWh generated unknown at this time.

Water Mitigation - Applies 30% water reduction based on Water Analysis (2015).

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes one 350 kW emergency generator. 50 hours per year for maintenance and testing purposes.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	33,739.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,217.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,877.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.35	6.75
tblEnergyUse	LightingElect	0.35	0.00

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tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	3.22	9.25
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.05	5.89
tblLandUse	LandUseSquareFeet	37,660.00	37,655.00
tblLandUse	LandUseSquareFeet	22,480.00	22,483.00
tblLandUse	LandUseSquareFeet	8,400.00	4,479.00
tblLandUse	LandUseSquareFeet	90,024.00	67,478.00
tblLandUse	LotAcreage	0.86	0.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	2.07	0.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	175.52
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	7.30	20.90
tblVehicleTrips	CNW_TL	7.30	20.90
tblVehicleTrips	CW_TL	9.50	20.90
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	58.00	100.00

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tblVehicleTrips	ST_TR	8.19	7.58
tblVehicleTrips	SU_TR	5.95	5.50
tblVehicleTrips	WD_TR	8.17	0.00
tblWater	IndoorWaterUseRate	1,572,739.74	8,100,000.00
tblWater	OutdoorWaterUseRate	174,748.86	100,000.00

2.0 Emissions Summary

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	277.1532	277.1532	0.0225	6.9500e-003	279.7851
Mobile	0.0369	0.2393	0.5986	3.0700e-003	0.3266	2.0300e-003	0.3286	0.0878	1.9000e-003	0.0897	0.0000	283.4866	283.4866	8.1100e-003	0.0000	283.6894
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	3.5173	6.0871	0.2645	6.3500e-003	14.5931
Total	0.3791	0.4466	0.7785	4.0500e-003	0.3266	0.0164	0.3430	0.0878	0.0162	0.1040	9.4613	574.2508	583.7121	0.7038	0.0133	605.2703

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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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	277.1532	277.1532	0.0225	6.9500e-003	279.7851
Mobile	0.0369	0.2393	0.5986	3.0700e-003	0.3266	2.0300e-003	0.3286	0.0878	1.9000e-003	0.0897	0.0000	283.4866	283.4866	8.1100e-003	0.0000	283.6894
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	1.7988	2.4621	4.2609	0.1852	4.4500e-003	10.2151
Total	0.3791	0.4466	0.7785	4.0500e-003	0.3266	0.0164	0.3430	0.0878	0.0162	0.1040	8.6904	573.1956	581.8860	0.6245	0.0114	600.8924

	ROG	NOx	CO	SO2	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	8.15	0.18	0.31	11.28	14.29	0.72

3.0 Construction Detail**Construction Phase**

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/10/2019	8/13/2019	5	2	
2	Architectural Coating	Architectural Coating	6/9/2020	6/22/2020	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.62

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

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3.3 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020**Mitigated Construction On-Site**

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

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

Encourage Telecommuting and Alternative Work Schedules

	ROG	NOx	CO	SO2	Fugitive 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	0.0369	0.2393	0.5986	3.0700e-003	0.3266	2.0300e-003	0.3286	0.0878	1.9000e-003	0.0897	0.0000	283.4866	283.4866	8.1100e-003	0.0000	283.6894
Unmitigated	0.0369	0.2393	0.5986	3.0700e-003	0.3266	2.0300e-003	0.3286	0.0878	1.9000e-003	0.0897	0.0000	283.4866	283.4866	8.1100e-003	0.0000	283.6894

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	0.00	470.00	341.00	881,395	881,395
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	470.00	341.00	881,395	881,395

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	20.90	20.90	20.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Hotel	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Other Non-Asphalt Surfaces	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Parking Lot	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	117.5981	117.5981	0.0194	4.0200e-003	119.2818
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	117.5981	117.5981	0.0194	4.0200e-003	119.2818
NaturalGas Mitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
NaturalGas Unmitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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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			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	117.5981	0.0194	4.0200e-003	119.2818
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		117.5981	0.0194	4.0200e-003	119.2818

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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			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	117.5981	0.0194	4.0200e-003	119.2818
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		117.5981	0.0194	4.0200e-003	119.2818

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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Unmitigated	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco 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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.2609	0.1852	4.4500e-003	10.2151
Unmitigated	6.0871	0.2645	6.3500e-003	14.5931

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	6.0871	0.2645	6.3500e-003	14.5931
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		6.0871	0.2645	6.3500e-003	14.5931

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	5.67 / 0.07	4.2609	0.1852	4.4500e-003	10.2151
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.2609	0.1852	4.4500e-003	10.2151

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8915	0.4073	0.0000	17.0735
Unmitigated	6.8915	0.4073	0.0000	17.0735

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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
Emergency Generator	1	0	50	530	0.73	Diesel

Boilers

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

Hotel Sonoma Proposed Project Weekend Operations (2030) (LEED Features) - Sonoma-San Francisco County, Annual

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

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Total	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265

11.0 Vegetation

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

Hotel Sonoma Proposed Project Weekend Operations (LEED Features)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	37.66	1000sqft	0.00	37,655.00	0
Other Non-Asphalt Surfaces	22.48	1000sqft	0.52	22,483.00	0
Parking Lot	21.00	Space	0.10	4,479.00	0
Hotel	62.00	Room	0.62	67,478.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	294	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

Project Characteristics - PG&E 2016 CO2 intensity rate of 294 lbs/MWh from 2018 PG&E CRSR, conservatively assumed to remain constant for 2021 operational year.

Land Use - Hotel sq. footage includes support building, hotel, spa. Parking structure in basement of hotel. Other non-asphalt surfaces include patio areas and courtyards.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading -

Architectural Coating - Operations run only.

Vehicle Trips - Based on trip rates associated with proposed project and 20.9-mile trip length during weekend days. Weekday trips calculated in separate run.

Energy Use - Total electricity usage included in hotel land use based on 123,120 kWh/month.

Water And Wastewater - Based on 2015 water analysis.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation - On-site renewable energy, kWh generated unknown at this time.

Water Mitigation - Applies 30% water reduction based on Water Analysis (2015).

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes one 350 kW emergency generator. 50 hours per year for maintenance and testing purposes.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	33,739.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,217.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,877.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.35	6.75
tblEnergyUse	LightingElect	0.35	0.00

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	3.22	9.25
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.05	5.89
tblLandUse	LandUseSquareFeet	37,660.00	37,655.00
tblLandUse	LandUseSquareFeet	22,480.00	22,483.00
tblLandUse	LandUseSquareFeet	8,400.00	4,479.00
tblLandUse	LandUseSquareFeet	90,024.00	67,478.00
tblLandUse	LotAcreage	0.86	0.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	2.07	0.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	7.30	20.90
tblVehicleTrips	CNW_TL	7.30	20.90
tblVehicleTrips	CW_TL	9.50	20.90
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	58.00	100.00

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

tblVehicleTrips	ST_TR	8.19	7.58
tblVehicleTrips	SU_TR	5.95	5.50
tblVehicleTrips	WD_TR	8.17	0.00
tblWater	IndoorWaterUseRate	1,572,739.74	8,100,000.00
tblWater	OutdoorWaterUseRate	174,748.86	100,000.00

2.0 Emissions Summary

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	356.5346	356.5346	0.0225	6.9500e-003	359.1665
Mobile	0.0699	0.4480	1.1311	3.9700e-003	0.3271	3.9900e-003	0.3311	0.0880	3.7500e-003	0.0918	0.0000	364.9949	364.9949	0.0135	0.0000	365.3310
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	5.8916	8.4613	0.2645	6.3500e-003	16.9673
Total	0.4121	0.6554	1.3110	4.9500e-003	0.3271	0.0183	0.3454	0.0880	0.0181	0.1061	9.4613	737.5147	746.9760	0.7092	0.0133	768.6676

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco 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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	356.5346	356.5346	0.0225	6.9500e-003	359.1665
Mobile	0.0699	0.4480	1.1311	3.9700e-003	0.3271	3.9900e-003	0.3311	0.0880	3.7500e-003	0.0918	0.0000	364.9949	364.9949	0.0135	0.0000	365.3310
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	1.7988	4.1241	5.9229	0.1852	4.4500e-003	11.8771
Total	0.4121	0.6554	1.3110	4.9500e-003	0.3271	0.0183	0.3454	0.0880	0.0181	0.1061	8.6904	735.7473	744.4376	0.6298	0.0114	763.5774

	ROG	NOx	CO	SO2	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	8.15	0.24	0.34	11.19	14.29	0.66

3.0 Construction Detail**Construction Phase**

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/10/2019	8/13/2019	5	2	
2	Architectural Coating	Architectural Coating	6/9/2020	6/22/2020	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.62

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020**Mitigated Construction On-Site**

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

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

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

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	0.0699	0.4480	1.1311	3.9700e-003	0.3271	3.9900e-003	0.3311	0.0880	3.7500e-003	0.0918	0.0000	364.9949	364.9949	0.0135	0.0000	365.3310
Unmitigated	0.0699	0.4480	1.1311	3.9700e-003	0.3271	3.9900e-003	0.3311	0.0880	3.7500e-003	0.0918	0.0000	364.9949	364.9949	0.0135	0.0000	365.3310

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	0.00	470.00	341.00	881,395	881,395
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	470.00	341.00	881,395	881,395

4.3 Trip Type Information

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	20.90	20.90	20.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Hotel	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Other Non-Asphalt Surfaces	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Parking Lot	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	196.9795	196.9795	0.0194	4.0200e-003	198.6632
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	196.9795	196.9795	0.0194	4.0200e-003	198.6632
NaturalGas Mitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
NaturalGas Unmitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	196.9795	0.0194	4.0200e-003	198.6632
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		196.9795	0.0194	4.0200e-003	198.6632

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	196.9795	0.0194	4.0200e-003	198.6632
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		196.9795	0.0194	4.0200e-003	198.6632

6.0 Area Detail**6.1 Mitigation Measures Area**

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Unmitigated	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco 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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.9229	0.1852	4.4500e-003	11.8771
Unmitigated	8.4613	0.2645	6.3500e-003	16.9673

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	8.4613	0.2645	6.3500e-003	16.9673
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.4613	0.2645	6.3500e-003	16.9673

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	5.67 / 0.07	5.9229	0.1852	4.4500e-003	11.8771
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.9229	0.1852	4.4500e-003	11.8771

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8915	0.4073	0.0000	17.0735
Unmitigated	6.8915	0.4073	0.0000	17.0735

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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
Emergency Generator	1	0	50	530	0.73	Diesel

Boilers

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

Hotel Sonoma Proposed Project Weekend Operations (LEED Features) - Sonoma-San Francisco County, Annual

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

10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Total	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265

11.0 Vegetation

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

Hotel Sonoma Proposed Project Weekend Operations (2030)

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	37.66	1000sqft	0.00	37,655.00	0
Other Non-Asphalt Surfaces	22.48	1000sqft	0.52	22,483.00	0
Parking Lot	21.00	Space	0.10	4,479.00	0
Hotel	62.00	Room	0.62	67,478.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	175.52	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

Project Characteristics - PG&E carbon intensity updated per RPS standards of 60% by 2030 - conservatively assuming 2016 Power Content Label sources and fractions.

Land Use - Hotel sq. footage includes support building, hotel, spa. Parking structure in basement of hotel. Other non-asphalt surfaces include patio areas and courtyards.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading -

Architectural Coating - Operations run only.

Vehicle Trips - Based on trip rates associated with proposed project and 20.9-mile trip length during weekend days. Weekday trip lengths calculated separately.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use - Total electricity usage included in hotel land use based on 123,120 kWh/month.

Water And Wastewater - Based on 2015 water analysis.

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes one 350 kW emergency generator. 50 hours per year for maintenance and testing purposes.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	33,739.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,217.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,877.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.35	6.75
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	3.22	9.25

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.05	5.89
tblLandUse	LandUseSquareFeet	37,660.00	37,655.00
tblLandUse	LandUseSquareFeet	22,480.00	22,483.00
tblLandUse	LandUseSquareFeet	8,400.00	4,479.00
tblLandUse	LandUseSquareFeet	90,024.00	67,478.00
tblLandUse	LotAcreage	0.86	0.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	2.07	0.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	175.52
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	7.30	20.90
tblVehicleTrips	CNW_TL	7.30	20.90
tblVehicleTrips	CW_TL	9.50	20.90
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	ST_TR	8.19	7.58
tblVehicleTrips	SU_TR	5.95	5.50

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

tblVehicleTrips	WD_TR	8.17	0.00
tblWater	IndoorWaterUseRate	1,572,739.74	8,100,000.00
tblWater	OutdoorWaterUseRate	174,748.86	100,000.00

2.0 Emissions Summary

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	277.1532	277.1532	0.0225	6.9500e-003	279.7851
Mobile	0.0369	0.2393	0.5986	3.0700e-003	0.3266	2.0300e-003	0.3286	0.0878	1.9000e-003	0.0897	0.0000	283.4866	283.4866	8.1100e-003	0.0000	283.6894
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	3.5173	6.0871	0.2645	6.3500e-003	14.5931
Total	0.3791	0.4466	0.7785	4.0500e-003	0.3266	0.0164	0.3430	0.0878	0.0162	0.1040	9.4613	574.2508	583.7121	0.7038	0.0133	605.2703

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco 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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	277.1532	277.1532	0.0225	6.9500e-003	279.7851
Mobile	0.0369	0.2393	0.5986	3.0700e-003	0.3266	2.0300e-003	0.3286	0.0878	1.9000e-003	0.0897	0.0000	283.4866	283.4866	8.1100e-003	0.0000	283.6894
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	3.5173	6.0871	0.2645	6.3500e-003	14.5931
Total	0.3791	0.4466	0.7785	4.0500e-003	0.3266	0.0164	0.3430	0.0878	0.0162	0.1040	9.4613	574.2508	583.7121	0.7038	0.0133	605.2703

	ROG	NOx	CO	SO2	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**

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/10/2019	8/13/2019	5	2	
2	Architectural Coating	Architectural Coating	6/9/2020	6/22/2020	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.62

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2020**Mitigated Construction On-Site**

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

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

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

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	0.0369	0.2393	0.5986	3.0700e-003	0.3266	2.0300e-003	0.3286	0.0878	1.9000e-003	0.0897	0.0000	283.4866	283.4866	8.1100e-003	0.0000	283.6894
Unmitigated	0.0369	0.2393	0.5986	3.0700e-003	0.3266	2.0300e-003	0.3286	0.0878	1.9000e-003	0.0897	0.0000	283.4866	283.4866	8.1100e-003	0.0000	283.6894

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	0.00	470.00	341.00	881,395	881,395
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	470.00	341.00	881,395	881,395

4.3 Trip Type Information

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	20.90	20.90	20.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Hotel	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Other Non-Asphalt Surfaces	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662
Parking Lot	0.625329	0.031298	0.162135	0.089092	0.014618	0.004632	0.032111	0.030354	0.003196	0.001373	0.004305	0.000897	0.000662

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	117.5981	117.5981	0.0194	4.0200e-003	119.2818
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	117.5981	117.5981	0.0194	4.0200e-003	119.2818
NaturalGas Mitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
NaturalGas Unmitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	117.5981	0.0194	4.0200e-003	119.2818
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		117.5981	0.0194	4.0200e-003	119.2818

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	117.5981	0.0194	4.0200e-003	119.2818
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		117.5981	0.0194	4.0200e-003	119.2818

6.0 Area Detail**6.1 Mitigation Measures Area**

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Unmitigated	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco 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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003
Total	0.3044	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7200e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.0871	0.2645	6.3500e-003	14.5931
Unmitigated	6.0871	0.2645	6.3500e-003	14.5931

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	6.0871	0.2645	6.3500e-003	14.5931
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		6.0871	0.2645	6.3500e-003	14.5931

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	6.0871	0.2645	6.3500e-003	14.5931
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		6.0871	0.2645	6.3500e-003	14.5931

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8915	0.4073	0.0000	17.0735
Unmitigated	6.8915	0.4073	0.0000	17.0735

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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
Emergency Generator	1	0	50	530	0.73	Diesel

Boilers

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

Hotel Sonoma Proposed Project Weekend Operations (2030) - Sonoma-San Francisco County, Annual

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Total	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265

11.0 Vegetation

Hotel Sonoma Proposed Project Weekend Operations - Sonoma-San Francisco County, Annual

Hotel Sonoma Proposed Project Weekend Operations

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	37.66	1000sqft	0.00	37,655.00	0
Other Non-Asphalt Surfaces	22.48	1000sqft	0.52	22,483.00	0
Parking Lot	21.00	Space	0.10	4,479.00	0
Hotel	62.00	Room	0.62	67,478.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	294	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hotel Sonoma Proposed Project Weekend Operations - Sonoma-San Francisco County, Annual

Project Characteristics - PG&E 2016 CO2 intensity rate of 294 lbs/MWh from 2018 PG&E CRSR, conservatively assumed to remain constant for 2021 operational year.

Land Use - Hotel sq. footage includes support building, hotel, spa. Parking structure in basement of hotel. Other non-asphalt surfaces include patio areas and courtyards.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading -

Architectural Coating - Operations run only.

Vehicle Trips - Based on trip rates associated with proposed project and 20.9-mile trip length during weekend days. Weekday trips calculated in separate run.

Energy Use - Total electricity usage included in hotel land use based on 123,120 kWh/month.

Water And Wastewater - Based on 2015 water analysis.

Stationary Sources - Emergency Generators and Fire Pumps - Assumes one 350 kW emergency generator. 50 hours per year for maintenance and testing purposes.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	33,739.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	101,217.00	0.00
tblArchitecturalCoating	ConstArea_Parking	3,877.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	2.35	6.75
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	NT24E	0.19	0.00
tblEnergyUse	NT24E	3.22	9.25
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	2.05	5.89
tblLandUse	LandUseSquareFeet	37,660.00	37,655.00
tblLandUse	LandUseSquareFeet	22,480.00	22,483.00

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tblLandUse	LandUseSquareFeet	8,400.00	4,479.00
tblLandUse	LandUseSquareFeet	90,024.00	67,478.00
tblLandUse	LotAcreage	0.86	0.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	2.07	0.62
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblTripsAndVMT	WorkerTripNumber	11.00	0.00
tblVehicleTrips	CC_TL	7.30	20.90
tblVehicleTrips	CNW_TL	7.30	20.90
tblVehicleTrips	CW_TL	9.50	20.90
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	ST_TR	8.19	7.58
tblVehicleTrips	SU_TR	5.95	5.50
tblVehicleTrips	WD_TR	8.17	0.00
tblWater	IndoorWaterUseRate	1,572,739.74	8,100,000.00
tblWater	OutdoorWaterUseRate	174,748.86	100,000.00

Hotel Sonoma Proposed Project Weekend Operations - Sonoma-San Francisco County, Annual

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible]

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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

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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	356.5346	356.5346	0.0225	6.9500e-003	359.1665
Mobile	0.0699	0.4480	1.1311	3.9700e-003	0.3271	3.9900e-003	0.3311	0.0880	3.7500e-003	0.0918	0.0000	364.9949	364.9949	0.0135	0.0000	365.3310
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	5.8916	8.4613	0.2645	6.3500e-003	16.9673
Total	0.4121	0.6554	1.3110	4.9500e-003	0.3271	0.0183	0.3454	0.0880	0.0181	0.1061	9.4613	737.5147	746.9760	0.7092	0.0133	768.6676

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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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Energy	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	356.5346	356.5346	0.0225	6.9500e-003	359.1665
Mobile	0.0699	0.4480	1.1311	3.9700e-003	0.3271	3.9900e-003	0.3311	0.0880	3.7500e-003	0.0918	0.0000	364.9949	364.9949	0.0135	0.0000	365.3310
Stationary	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Waste						0.0000	0.0000		0.0000	0.0000	6.8915	0.0000	6.8915	0.4073	0.0000	17.0735
Water						0.0000	0.0000		0.0000	0.0000	2.5698	5.8916	8.4613	0.2645	6.3500e-003	16.9673
Total	0.4121	0.6554	1.3110	4.9500e-003	0.3271	0.0183	0.3454	0.0880	0.0181	0.1061	9.4613	737.5147	746.9760	0.7092	0.0133	768.6676

	ROG	NOx	CO	SO2	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**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/10/2019	8/13/2019	5	2	
2	Architectural Coating	Architectural Coating	6/9/2020	6/22/2020	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.62

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	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 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

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3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

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3.3 Architectural Coating - 2020

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

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3.3 Architectural Coating - 2020**Mitigated Construction On-Site**

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

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

Hotel Sonoma Proposed Project Weekend Operations - Sonoma-San Francisco County, Annual

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	0.0699	0.4480	1.1311	3.9700e-003	0.3271	3.9900e-003	0.3311	0.0880	3.7500e-003	0.0918	0.0000	364.9949	364.9949	0.0135	0.0000	365.3310
Unmitigated	0.0699	0.4480	1.1311	3.9700e-003	0.3271	3.9900e-003	0.3311	0.0880	3.7500e-003	0.0918	0.0000	364.9949	364.9949	0.0135	0.0000	365.3310

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Enclosed Parking with Elevator	0.00	0.00	0.00		
Hotel	0.00	470.00	341.00	881,395	881,395
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	470.00	341.00	881,395	881,395

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Hotel	20.90	20.90	20.90	19.40	61.60	19.00	100	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Enclosed Parking with Elevator	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Hotel	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Other Non-Asphalt Surfaces	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Parking Lot	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Hotel Sonoma Proposed Project Weekend Operations - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	196.9795	196.9795	0.0194	4.0200e-003	198.6632
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	196.9795	196.9795	0.0194	4.0200e-003	198.6632
NaturalGas Mitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
NaturalGas Unmitigated	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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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					
Enclosed Parking with Elevator	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
Hotel	2.98995e+006	0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0161	0.1466	0.1231	8.8000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	159.5551	159.5551	3.0600e-003	2.9300e-003	160.5033

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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			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	196.9795	0.0194	4.0200e-003	198.6632
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		196.9795	0.0194	4.0200e-003	198.6632

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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			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.47709e+006	196.9795	0.0194	4.0200e-003	198.6632
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		196.9795	0.0194	4.0200e-003	198.6632

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	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Unmitigated	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

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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	0.0365					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2677					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	0.3044	1.0000e-005	1.3200e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.4613	0.2645	6.3500e-003	16.9673
Unmitigated	8.4613	0.2645	6.3500e-003	16.9673

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	8.4613	0.2645	6.3500e-003	16.9673
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.4613	0.2645	6.3500e-003	16.9673

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Hotel	8.1 / 0.1	8.4613	0.2645	6.3500e-003	16.9673
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.4613	0.2645	6.3500e-003	16.9673

8.0 Waste Detail

8.1 Mitigation Measures Waste

Hotel Sonoma Proposed Project Weekend Operations - Sonoma-San Francisco County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8915	0.4073	0.0000	17.0735
Unmitigated	6.8915	0.4073	0.0000	17.0735

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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8.2 Waste by Land Use**Mitigated**

	Waste Disposed	Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	tons	MT/yr			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Hotel	33.95	6.8915	0.4073	0.0000	17.0735
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8915	0.4073	0.0000	17.0735

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
Emergency Generator	1	0	50	530	0.73	Diesel

Boilers

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

Hotel Sonoma Proposed Project Weekend Operations - Sonoma-San Francisco County, Annual

Equipment Type	Number
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10.1 Stationary Sources**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265
Total	0.0217	0.0608	0.0554	1.0000e-004		3.2000e-003	3.2000e-003		3.2000e-003	3.2000e-003	0.0000	10.0911	10.0911	1.4100e-003	0.0000	10.1265

11.0 Vegetation

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

Hotel Sonoma Existing Land Use

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	11.32	1000sqft	0.26	11,318.00	0
Regional Shopping Center	3.55	1000sqft	0.08	3,550.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	294	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

Project Characteristics - PG&E 2016 CO2 intensity rate of 294 lbs/MWh from 2018 PG&E CRSR. 2015 baseline year.

Land Use - Building square footage for Chateau Sonoma and Print Building proposed to be demolished.

Construction Phase - Operations only.

Off-road Equipment - Operations only.

Off-road Equipment - Operations only.

Trips and VMT - Operations only.

Grading - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Based on estimated existing weekday trips; weekend trips calculated in separate run.

Energy Use - Based on defaults.

Water And Wastewater - Default water consumption.

Solid Waste - Default solid waste.

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	7,434.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	22,302.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblTripsAndVMT	WorkerTripNumber	1.00	0.00
tblVehicleTrips	CC_TL	7.30	18.60
tblVehicleTrips	CNW_TL	7.30	18.60
tblVehicleTrips	CW_TL	9.50	18.60
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	49.97	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	25.24	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	42.70	32.39
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

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	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Energy	2.6000e-004	2.3400e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	12.9335	12.9335	1.0700e-003	2.6000e-004	13.0374
Mobile	0.0945	0.5196	1.4289	2.9500e-003	0.2068	7.6200e-003	0.2144	0.0557	7.2400e-003	0.0630	0.0000	268.7180	268.7180	0.0151	0.0000	269.0945
Waste						0.0000	0.0000		0.0000	0.0000	2.9170	0.0000	2.9170	0.1724	0.0000	7.2267
Water						0.0000	0.0000		0.0000	0.0000	0.9139	2.1539	3.0678	0.0941	2.2600e-003	6.0934
Total	0.1606	0.5220	1.4310	2.9600e-003	0.2068	7.8000e-003	0.2146	0.0557	7.4200e-003	0.0632	3.8309	283.8056	287.6365	0.2826	2.5200e-003	295.4523

Hotel Sonoma Existing Land Use - Sonoma-San Francisco 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	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Energy	2.6000e-004	2.3400e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	12.9335	12.9335	1.0700e-003	2.6000e-004	13.0374
Mobile	0.0945	0.5196	1.4289	2.9500e-003	0.2068	7.6200e-003	0.2144	0.0557	7.2400e-003	0.0630	0.0000	268.7180	268.7180	0.0151	0.0000	269.0945
Waste						0.0000	0.0000		0.0000	0.0000	2.9170	0.0000	2.9170	0.1724	0.0000	7.2267
Water						0.0000	0.0000		0.0000	0.0000	0.9139	2.1539	3.0678	0.0941	2.2600e-003	6.0934
Total	0.1606	0.5220	1.4310	2.9600e-003	0.2068	7.8000e-003	0.2146	0.0557	7.4200e-003	0.0632	3.8309	283.8056	287.6365	0.2826	2.5200e-003	295.4523

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	1/15/2019	1/15/2019	5	1	
2	Architectural Coating	Architectural Coating	6/14/2019	6/20/2019	5	5	

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

Acres of Grading (Site Preparation Phase): 0**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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2019**Mitigated Construction On-Site**

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

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

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

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	0.0945	0.5196	1.4289	2.9500e-003	0.2068	7.6200e-003	0.2144	0.0557	7.2400e-003	0.0630	0.0000	268.7180	268.7180	0.0151	0.0000	269.0945
Unmitigated	0.0945	0.5196	1.4289	2.9500e-003	0.2068	7.6200e-003	0.2144	0.0557	7.2400e-003	0.0630	0.0000	268.7180	268.7180	0.0151	0.0000	269.0945

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	115.00	0.00	0.00	556,140	556,140
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	115.00	0.00	0.00	556,140	556,140

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
Regional Shopping Center	18.60	18.60	18.60	16.30	64.70	19.00	100	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.505833	0.055817	0.184442	0.136229	0.044752	0.009181	0.026533	0.022772	0.002845	0.002337	0.006781	0.000823	0.001655
Unrefrigerated Warehouse-No Rail	0.505833	0.055817	0.184442	0.136229	0.044752	0.009181	0.026533	0.022772	0.002845	0.002337	0.006781	0.000823	0.001655

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	10.3887	10.3887	1.0200e-003	2.1000e-004	10.4775
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.3887	10.3887	1.0200e-003	2.1000e-004	10.4775
NaturalGas Mitigated	2.6000e-004	2.3400e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5448	2.5448	5.0000e-005	5.0000e-005	2.5599
NaturalGas Unmitigated	2.6000e-004	2.3400e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5448	2.5448	5.0000e-005	5.0000e-005	2.5599

Hotel Sonoma Existing Land Use - Sonoma-San Francisco 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					
Regional Shopping Center	8413.5	5.0000e-005	4.1000e-004	3.5000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4490	0.4490	1.0000e-005	1.0000e-005	0.4516
Unrefrigerated Warehouse-No Rail	39273.5	2.1000e-004	1.9300e-003	1.6200e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.0958	2.0958	4.0000e-005	4.0000e-005	2.1082
Total		2.6000e-004	2.3400e-003	1.9700e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5448	2.5448	5.0000e-005	5.0000e-005	2.5599

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					
Regional Shopping Center	8413.5	5.0000e-005	4.1000e-004	3.5000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4490	0.4490	1.0000e-005	1.0000e-005	0.4516
Unrefrigerated Warehouse-No Rail	39273.5	2.1000e-004	1.9300e-003	1.6200e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.0958	2.0958	4.0000e-005	4.0000e-005	2.1082
Total		2.6000e-004	2.3400e-003	1.9700e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5448	2.5448	5.0000e-005	5.0000e-005	2.5599

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	37949.5	5.0608	5.0000e-004	1.0000e-004	5.1041
Unrefrigerated Warehouse-No Rail	39952.5	5.3279	5.3000e-004	1.1000e-004	5.3735
Total		10.3887	1.0300e-003	2.1000e-004	10.4775

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	37949.5	5.0608	5.0000e-004	1.0000e-004	5.1041
Unrefrigerated Warehouse-No Rail	39952.5	5.3279	5.3000e-004	1.1000e-004	5.3735
Total		10.3887	1.0300e-003	2.1000e-004	10.4775

6.0 Area Detail**6.1 Mitigation Measures Area**

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Unmitigated	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004

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	7.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0581					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Total	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004

Hotel Sonoma Existing Land Use - Sonoma-San Francisco 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	7.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0581					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Total	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.0678	0.0941	2.2600e-003	6.0934
Unmitigated	3.0678	0.0941	2.2600e-003	6.0934

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	0.262957 / 0.161167	0.3484	8.5900e-003	2.1000e-004	0.6252
Unrefrigerated Warehouse-No Rail	2.61775 / 0	2.7194	0.0855	2.0500e-003	5.4683
Total		3.0678	0.0941	2.2600e-003	6.0934

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	0.262957 / 0.161167	0.3484	8.5900e-003	2.1000e-004	0.6252
Unrefrigerated Warehouse-No Rail	2.61775 / 0	2.7194	0.0855	2.0500e-003	5.4683
Total		3.0678	0.0941	2.2600e-003	6.0934

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.9170	0.1724	0.0000	7.2267
Unmitigated	2.9170	0.1724	0.0000	7.2267

Hotel Sonoma Existing Land Use - Sonoma-San Francisco County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	3.73	0.7572	0.0448	0.0000	1.8758
Unrefrigerated Warehouse-No Rail	10.64	2.1598	0.1276	0.0000	5.3509
Total		2.9170	0.1724	0.0000	7.2267

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	3.73	0.7572	0.0448	0.0000	1.8758
Unrefrigerated Warehouse-No Rail	10.64	2.1598	0.1276	0.0000	5.3509
Total		2.9170	0.1724	0.0000	7.2267

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Hotel Sonoma Existing Land Use - Sonoma-San Francisco 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

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

Hotel Sonoma Existing Land Use - Weekend Mobile Sources

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	11.32	1000sqft	0.26	11,318.00	0
Regional Shopping Center	3.55	1000sqft	0.08	3,550.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	294	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

Project Characteristics - PG&E 2016 CO2 intensity rate of 294 lbs/MWh from 2018 PG&E CRSR. 2015 baseline year.

Land Use - Building square footage for Chateau Sonoma and Print Building proposed to be demolished.

Construction Phase - Operations only.

Off-road Equipment - Operations only.

Off-road Equipment - Operations only.

Trips and VMT - Operations only.

Grading - Operations only.

Architectural Coating - Operations only.

Vehicle Trips - Based on estimated existing weekend trips; weekday trips calculated in separate run.

Energy Use - Based on defaults.

Water And Wastewater - Default water consumption.

Solid Waste - Default solid waste.

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	7,434.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	22,302.00	0.00
tblLandUse	LandUseSquareFeet	11,320.00	11,318.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	294
tblTripsAndVMT	WorkerTripNumber	1.00	0.00
tblVehicleTrips	CC_TL	7.30	20.90
tblVehicleTrips	CNW_TL	7.30	20.90
tblVehicleTrips	CW_TL	9.50	20.90
tblVehicleTrips	DV_TP	35.00	0.00
tblVehicleTrips	PB_TP	11.00	0.00
tblVehicleTrips	PR_TP	54.00	100.00
tblVehicleTrips	ST_TR	49.97	10.14
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	25.24	10.14
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	42.70	0.00
tblVehicleTrips	WD_TR	1.68	0.00

2.0 Emissions Summary

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

2.1 Overall Construction

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

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	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Energy	2.6000e-004	2.3400e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	12.9335	12.9335	1.0700e-003	2.6000e-004	13.0374
Mobile	0.0128	0.0722	0.1983	4.1000e-004	0.0291	1.0700e-003	0.0302	7.8400e-003	1.0200e-003	8.8600e-003	0.0000	37.7360	37.7360	2.0900e-003	0.0000	37.7883
Waste						0.0000	0.0000		0.0000	0.0000	2.9170	0.0000	2.9170	0.1724	0.0000	7.2267
Water						0.0000	0.0000		0.0000	0.0000	0.9139	2.1539	3.0678	0.0941	2.2600e-003	6.0934
Total	0.0789	0.0745	0.2004	4.2000e-004	0.0291	1.2500e-003	0.0303	7.8400e-003	1.2000e-003	9.0400e-003	3.8309	52.8237	56.6546	0.2696	2.5200e-003	64.1461

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco 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	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Energy	2.6000e-004	2.3400e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	12.9335	12.9335	1.0700e-003	2.6000e-004	13.0374
Mobile	0.0128	0.0722	0.1983	4.1000e-004	0.0291	1.0700e-003	0.0302	7.8400e-003	1.0200e-003	8.8600e-003	0.0000	37.7360	37.7360	2.0900e-003	0.0000	37.7883
Waste						0.0000	0.0000		0.0000	0.0000	2.9170	0.0000	2.9170	0.1724	0.0000	7.2267
Water						0.0000	0.0000		0.0000	0.0000	0.9139	2.1539	3.0678	0.0941	2.2600e-003	6.0934
Total	0.0789	0.0745	0.2004	4.2000e-004	0.0291	1.2500e-003	0.0303	7.8400e-003	1.2000e-003	9.0400e-003	3.8309	52.8237	56.6546	0.2696	2.5200e-003	64.1461

	ROG	NOx	CO	SO2	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	Site Preparation	Site Preparation	1/15/2019	1/15/2019	5	1	
2	Architectural Coating	Architectural Coating	6/14/2019	6/20/2019	5	5	

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

Acres of Grading (Site Preparation Phase): 0**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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

3.2 Site Preparation - 2019

Mitigated Construction On-Site

[illegible]

Mitigated Construction Off-Site

[illegible]

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2019

Unmitigated Construction On-Site

[illegible]

Unmitigated Construction Off-Site

[illegible]

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

3.3 Architectural Coating - 2019**Mitigated Construction On-Site**

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

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

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

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	0.0128	0.0722	0.1983	4.1000e-004	0.0291	1.0700e-003	0.0302	7.8400e-003	1.0200e-003	8.8600e-003	0.0000	37.7360	37.7360	2.0900e-003	0.0000	37.7883
Unmitigated	0.0128	0.0722	0.1983	4.1000e-004	0.0291	1.0700e-003	0.0302	7.8400e-003	1.0200e-003	8.8600e-003	0.0000	37.7360	37.7360	2.0900e-003	0.0000	37.7883

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Regional Shopping Center	0.00	36.00	36.00	78,250	78,250
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	36.00	36.00	78,250	78,250

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
Regional Shopping Center	20.90	20.90	20.90	16.30	64.70	19.00	100	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Regional Shopping Center	0.505833	0.055817	0.184442	0.136229	0.044752	0.009181	0.026533	0.022772	0.002845	0.002337	0.006781	0.000823	0.001655
Unrefrigerated Warehouse-No Rail	0.505833	0.055817	0.184442	0.136229	0.044752	0.009181	0.026533	0.022772	0.002845	0.002337	0.006781	0.000823	0.001655

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	10.3887	10.3887	1.0200e-003	2.1000e-004	10.4775
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.3887	10.3887	1.0200e-003	2.1000e-004	10.4775
NaturalGas Mitigated	2.6000e-004	2.3400e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5448	2.5448	5.0000e-005	5.0000e-005	2.5599
NaturalGas Unmitigated	2.6000e-004	2.3400e-003	1.9600e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5448	2.5448	5.0000e-005	5.0000e-005	2.5599

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco 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					
Regional Shopping Center	8413.5	5.0000e-005	4.1000e-004	3.5000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4490	0.4490	1.0000e-005	1.0000e-005	0.4516
Unrefrigerated Warehouse-No Rail	39273.5	2.1000e-004	1.9300e-003	1.6200e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.0958	2.0958	4.0000e-005	4.0000e-005	2.1082
Total		2.6000e-004	2.3400e-003	1.9700e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5448	2.5448	5.0000e-005	5.0000e-005	2.5599

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					
Regional Shopping Center	8413.5	5.0000e-005	4.1000e-004	3.5000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4490	0.4490	1.0000e-005	1.0000e-005	0.4516
Unrefrigerated Warehouse-No Rail	39273.5	2.1000e-004	1.9300e-003	1.6200e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.0958	2.0958	4.0000e-005	4.0000e-005	2.1082
Total		2.6000e-004	2.3400e-003	1.9700e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5448	2.5448	5.0000e-005	5.0000e-005	2.5599

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	37949.5	5.0608	5.0000e-004	1.0000e-004	5.1041
Unrefrigerated Warehouse-No Rail	39952.5	5.3279	5.3000e-004	1.1000e-004	5.3735
Total		10.3887	1.0300e-003	2.1000e-004	10.4775

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Regional Shopping Center	37949.5	5.0608	5.0000e-004	1.0000e-004	5.1041
Unrefrigerated Warehouse-No Rail	39952.5	5.3279	5.3000e-004	1.1000e-004	5.3735
Total		10.3887	1.0300e-003	2.1000e-004	10.4775

6.0 Area Detail**6.1 Mitigation Measures Area**

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Unmitigated	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004

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	7.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0581					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Total	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco 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	7.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0581					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004
Total	0.0658	0.0000	1.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.7000e-004	2.7000e-004	0.0000	0.0000	2.8000e-004

7.0 Water Detail**7.1 Mitigation Measures Water**

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.0678	0.0941	2.2600e-003	6.0934
Unmitigated	3.0678	0.0941	2.2600e-003	6.0934

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	0.262957 / 0.161167	0.3484	8.5900e-003	2.1000e-004	0.6252
Unrefrigerated Warehouse-No Rail	2.61775 / 0	2.7194	0.0855	2.0500e-003	5.4683
Total		3.0678	0.0941	2.2600e-003	6.0934

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Regional Shopping Center	0.262957 / 0.161167	0.3484	8.5900e-003	2.1000e-004	0.6252
Unrefrigerated Warehouse-No Rail	2.61775 / 0	2.7194	0.0855	2.0500e-003	5.4683
Total		3.0678	0.0941	2.2600e-003	6.0934

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.9170	0.1724	0.0000	7.2267
Unmitigated	2.9170	0.1724	0.0000	7.2267

Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	3.73	0.7572	0.0448	0.0000	1.8758
Unrefrigerated Warehouse-No Rail	10.64	2.1598	0.1276	0.0000	5.3509
Total		2.9170	0.1724	0.0000	7.2267

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Regional Shopping Center	3.73	0.7572	0.0448	0.0000	1.8758
Unrefrigerated Warehouse-No Rail	10.64	2.1598	0.1276	0.0000	5.3509
Total		2.9170	0.1724	0.0000	7.2267

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Hotel Sonoma Existing Land Use - Weekend Mobile Sources - Sonoma-San Francisco 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
