

APPENDIX 3.3-A, APPENDIX A: CALEEMOD OUTPUTS FOR STATION AND LIGHT MAINTENANCE FACILITY OPERATION

Existing 4th and King Station No Project - San Francisco County, Annual

**Existing 4th and King Station No Project
San Francisco County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	17.00	1000sqft	0.39	17,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	4.6	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	391	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2016 EF from Egrid and PG&E

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and passenger

Energy Use - reweighted per project specific info

Water And Wastewater - gallons per project specific data

Solid Waste - tons per project specific data

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	8,500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	25,500.00	0.00
tblEnergyUse	LightingElect	2.99	10.47
tblEnergyUse	NT24E	3.36	12.58
tblEnergyUse	NT24NG	6.90	1.26
tblEnergyUse	T24E	1.21	5.03
tblEnergyUse	T24NG	17.85	3.73
tblFleetMix	HHD	8.2610e-003	0.00
tblFleetMix	LDA	0.61	0.72
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.19	0.22
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.4220e-003	0.00
tblFleetMix	MCY	8.4890e-003	0.01
tblFleetMix	MDV	0.08	0.00
tblFleetMix	MH	3.7100e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	4.3430e-003	0.00
tblFleetMix	SBUS	8.6500e-004	0.00
tblFleetMix	UBUS	7.5430e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033
tblProjectCharacteristics	CO2IntensityFactor	641.35	391

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	1.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	175.28
tblVehicleTrips	SU_TR	0.68	175.28
tblVehicleTrips	WD_TR	6.97	175.28
tblWater	IndoorWaterUseRate	3,931,250.00	1,002,984.00
tblWater	OutdoorWaterUseRate	0.00	510,016.00

2.0 Emissions Summary

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	0.0753	0	1.60E-04	0		0	0		0	0	0	3.00E-04	3.00E-04	0	0	3.30E-04
Energy	4.60E-04	4.16E-03	3.49E-03	2.00E-05		3.20E-04	3.20E-04		3.20E-04	3.20E-04	0	89.1889	89.1889	7.23E-03	9.50E-04	89.6525

Existing 4th and King Station With Project - San Francisco County, Annual

**Existing 4th and King Station With Project
San Francisco County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	25.40	1000sqft	0.58	25,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	4.6	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	391	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2016 EF from Egrid and PG&E

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and passenger

Energy Use - reweighted per project specific info

Water And Wastewater - gallons per project specific data

Solid Waste - tons per project specific data

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	12,700.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	38,100.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblEnergyUse	LightingElect	2.99	10.47
tblEnergyUse	NT24E	3.36	12.58
tblEnergyUse	NT24NG	6.90	1.26
tblEnergyUse	T24E	1.21	5.03
tblEnergyUse	T24NG	17.85	3.73
tblFleetMix	HHD	8.2610e-003	0.00
tblFleetMix	LDA	0.61	0.72
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.19	0.22
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.4220e-003	0.00
tblFleetMix	MCY	8.4890e-003	0.01
tblFleetMix	MDV	0.08	0.00
tblFleetMix	MH	3.7100e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	4.3430e-003	0.00
tblFleetMix	SBUS	8.6500e-004	0.00
tblFleetMix	UBUS	7.5430e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033

tblProjectCharacteristics	CO2IntensityFactor	641.35	391
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	258.36
tblVehicleTrips	SU_TR	0.68	258.36
tblVehicleTrips	WD_TR	6.97	258.36
tblWater	IndoorWaterUseRate	5,873,750.00	1,498,576.00
tblWater	OutdoorWaterUseRate	0.00	762,024.00

2.0 Emissions Summary

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	0.1125	0	2.40E-04	0		0	0		0	0	0	4.50E-04	4.50E-04	0	0	4.90E-04
Energy	6.80E-04	6.21E-03	5.22E-03	4.00E-05		4.70E-04	4.70E-04		4.70E-04	4.70E-04	0	133.2586	133.2586	0.0108	1.42E-03	133.9514

LMF With Project - San Mateo County, Annual

LMF With Project
San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	433.62	1000sqft	9.95	433,620.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	391	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2015 Efs from Egrid and PG&E

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and haul trips

Fleet Mix - reweighted to LDA/LDT/MCY

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	216,810.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	650,430.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	2/3/2020	11/12/2018
tblConstructionPhase	PhaseStartDate	1/7/2020	11/13/2018
tblFleetMix	HHD	6.0940e-003	0.00
tblFleetMix	LDA	0.54	0.66
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.22	0.27
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.3200e-003	0.00
tblFleetMix	MCY	7.3670e-003	9.0000e-003
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	6.4300e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	3.3560e-003	0.00
tblFleetMix	SBUS	3.4300e-004	0.00
tblFleetMix	UBUS	3.8220e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	641.35	391
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82

tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	36.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.09
tblVehicleTrips	SU_TR	0.68	1.09
tblVehicleTrips	WD_TR	6.97	1.09

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive 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	1.92	4.00E-05	4.12E-03	0		1.00E-05	1.00E-05		1.00E-05	1.00E-05	0	7.75E-03	7.75E-03	2.00E-05	0	8.31E-03
Energy	0.0579	0.5261	0.4419	3.16E-03		0.04	0.04		0.04	0.04	0	1,154.10	1,154.10	0.0407	0.0135	1,159.14
Mobile	0.1957	0.2449	2.569	5.63E-03	0.5385	3.45E-03	0.542	0.1432	3.19E-03	0.1464	0	508.0089	508.0089	0.0212	0	508.5383
Stationary	0.044	0.1967	0.1121	2.10E-04		6.47E-03	6.47E-03		6.47E-03	6.47E-03	0	20.4107	20.4107	2.86E-03	0	20.4823
Waste						0	0		0	0	109.1462	0	109.1462	6.4504	0	270.4051
Water						0	0		0	0	31.8125	96.2301	128.0426	3.2724	0.0776	232.9898
Total	2.2176	0.9677	3.1271	9.00E-03	0.5385	0.0499	0.5884	0.1432	0.0497	0.1928	140.9587	1,778.76	1,919.72	9.7875	0.0911	2,191.56

Existing Millbrae Station No Project - San Mateo County, Annual

**Existing Millbrae Station No Project
San Mateo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	30.84	1000sqft	0.71	30,840.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	391	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2016 EFs from Egrid and PG&E
 Land Use - -
 Construction Phase - -
 Off-road Equipment - -
 Trips and VMT - -
 Architectural Coating - -
 Vehicle Trips - employee and passenger
 Energy Use - reweighted per project specific info
 Water And Wastewater - gallons per project specific data

Solid Waste - tons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - project specific info

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	15,420.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	46,260.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblEnergyUse	LightingElect	2.99	10.44
tblEnergyUse	NT24E	3.36	12.54
tblEnergyUse	NT24NG	6.90	1.26
tblEnergyUse	T24E	1.21	5.02
tblEnergyUse	T24NG	17.85	3.73
tblFleetMix	HHD	6.0940e-003	0.00
tblFleetMix	LDA	0.54	0.66
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.22	0.27
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.3200e-003	0.00
tblFleetMix	MCY	7.3670e-003	9.0000e-003
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	6.4300e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	3.3560e-003	0.00
tblFleetMix	SBUS	3.4300e-004	0.00
tblFleetMix	UBUS	3.8220e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033

tblProjectCharacteristics	CO2IntensityFactor	641.35	391
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblSolidWaste	SolidWasteGenerationRate	38.24	31.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	298.96
tblVehicleTrips	SU_TR	0.68	298.96
tblVehicleTrips	WD_TR	6.97	298.96
tblWater	IndoorWaterUseRate	7,131,750.00	1,819,531.00
tblWater	OutdoorWaterUseRate	0.00	925,229.00

2.0 Emissions Summary

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					

Existing Millbrae Station With Project - San Mateo County, Annual

**Existing Millbrae Station With Project
San Mateo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	55.22	1000sqft	1.27	55,215.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2015
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	391	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - 2016 EFs from Egrid and PG&E
- Land Use - -
- Construction Phase - -
- Off-road Equipment - -
- Trips and VMT - -
- Architectural Coating - -
- Vehicle Trips - employee and passenger
- Energy Use - reweighted per project specific info
- Water And Wastewater - gallons per project specific data

Solid Waste - tons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - project specific info

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	27,608.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	82,823.00	0.00
tblEnergyUse	LightingElect	2.99	10.47
tblEnergyUse	NT24E	3.36	12.58
tblEnergyUse	NT24NG	6.90	1.26
tblEnergyUse	T24E	1.21	5.03
tblEnergyUse	T24NG	17.85	3.74
tblFleetMix	HHD	6.0940e-003	0.00
tblFleetMix	LDA	0.54	0.66
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.22	0.27
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.3200e-003	0.00
tblFleetMix	MCY	7.3670e-003	9.0000e-003
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	6.4300e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	3.3560e-003	0.00
tblFleetMix	SBUS	3.4300e-004	0.00
tblFleetMix	UBUS	3.8220e-003	0.00
tblLandUse	LandUseSquareFeet	55,220.00	55,215.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.033

tblProjectCharacteristics	CO2IntensityFactor	641.35	391
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.004
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	248.95
tblVehicleTrips	SU_TR	0.68	248.95
tblVehicleTrips	WD_TR	6.97	248.95
tblWater	IndoorWaterUseRate	12,769,625.00	3,257,632.00
tblWater	OutdoorWaterUseRate	0.00	1,656,503.00

2.0 Emissions Summary

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	0.2445	1.00E-05	5.20E-04	0		0	0		0	0	0	9.90E-04	9.90E-04	0	0	1.06E-03

2029 4th and King Station No Project - San Francisco County, Annual

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	17.00	1000sqft	0.39	17,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	4.6	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	163.23	CH4 Intensity (lb/MWhr)	0.02	N2O Intensity (lb/MWhr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2016 EFs from Egrid and PG&E
 Land Use - -
 Construction Phase - -
 Off-road Equipment - -
 Trips and VMT - -
 Architectural Coating - -
 Vehicle Trips - employee and passenger
 Energy Use - reweighted per project specific info
 Water And Wastewater - gallons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	8,500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	25,500.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblEnergyUse	LightingElect	2.99	10.47
tblEnergyUse	NT24E	3.36	12.58
tblEnergyUse	NT24NG	6.90	1.26
tblEnergyUse	T24E	1.21	5.03
tblEnergyUse	T24NG	17.85	3.73
tblFleetMix	HHD	9.6110e-003	0.00
tblFleetMix	LDA	0.60	0.72
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	5.2420e-003	0.00
tblFleetMix	MCY	5.8110e-003	7.0000e-003
tblFleetMix	MDV	0.09	0.00
tblFleetMix	MH	5.8500e-004	0.00
tblFleetMix	MHD	0.03	0.00
tblFleetMix	OBUS	4.2750e-003	0.00
tblFleetMix	SBUS	9.5800e-004	0.00
tblFleetMix	UBUS	2.4390e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	641.35	163.23

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	1.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	184.34
tblVehicleTrips	SU_TR	0.68	184.34
tblVehicleTrips	WD_TR	6.97	184.34
tblWater	IndoorWaterUseRate	3,931,250.00	1,002,984.00
tblWater	OutdoorWaterUseRate	0.00	510,016.00

2.0 Emissions Summary

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	0.0753	0.0000	1.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.0000e-004	3.0000e-004	0.0000	0.0000	3.2000e-004
Energy	4.6000e-004	4.1600e-003	3.4900e-003	2.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	39.8705	39.8705	4.4200e-003	5.2000e-004	40.1347

2029 4th and King Station Project - San Francisco County, Annual

2029 4th and King Station Project
San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	25.40	1000sqft	0.58	25,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	4.6	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	163.23	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - adjusted to account for RPS

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and passenger

Energy Use - reweighted per project specific info

Water And Wastewater - gallons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	12,700.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	38,100.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblEnergyUse	LightingElect	2.99	10.47
tblEnergyUse	NT24E	3.36	12.58
tblEnergyUse	NT24NG	6.90	1.26
tblEnergyUse	T24E	1.21	5.03
tblEnergyUse	T24NG	17.85	3.73
tblFleetMix	HHD	9.6110e-003	0.00
tblFleetMix	LDA	0.60	0.72
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.23
tblFleetMix	LHD1	0.01	0.00
tblFleetMix	LHD2	5.2420e-003	0.00
tblFleetMix	MCY	5.8110e-003	7.0000e-003
tblFleetMix	MDV	0.09	0.00
tblFleetMix	MH	5.8500e-004	0.00
tblFleetMix	MHD	0.03	0.00
tblFleetMix	OBUS	4.2750e-003	0.00
tblFleetMix	SBUS	9.5800e-004	0.00
tblFleetMix	UBUS	2.4390e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02

tblProjectCharacteristics	CO2IntensityFactor	641.35	163.23
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	2.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	264.43
tblVehicleTrips	SU_TR	0.68	264.43
tblVehicleTrips	WD_TR	6.97	264.43
tblWater	IndoorWaterUseRate	5,873,750.00	1,498,576.00
tblWater	OutdoorWaterUseRate	0.00	762,024.00

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive 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	0.1125	0	2.30E-04	0		0	0		0	0	0	4.50E-04	4.50E-04	0	0	4.80E-04
Energy	6.80E-04	6.21E-03	5.22E-03	4.00E-05		4.70E-04	4.70E-04		4.70E-04	4.70E-04	0	59.5713	59.5713	6.60E-03	7.70E-04	59.966
Mobile	1.1859	1.0086	14.8597	0.0547	7.6755	0.0436	7.7191	2.04	0.0401	2.0801	0	4,952.09	4,952.09	0.1512	0	4,955.87
Stationary	0.044	0.1967	0.1121	2.10E-04		6.47E-03	6.47E-03		6.47E-03	6.47E-03	0	20.4107	20.4107	2.86E-03	0	20.4823
Waste						0	0		0	0	6.3942	0	6.3942	0.3779	0	15.8414

2029 LMF - San Mateo County, Annual

2029 LMF
San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	433.62	1000sqft	9.95	433,620.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2029
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	163.23	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - adjusted for RPS

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - adjusted for haul trip and employee

Fleet Mix - adjusted for LDA, LDT, MCY

Energy Use - -

Stationary Sources - User Defined -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	216,810.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	650,430.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseStartDate	1/1/2011	1/2/2011
tblEnergyUse	LightingElect	2.99	3.08
tblEnergyUse	NT24E	3.36	3.70
tblEnergyUse	NT24NG	6.90	6.67
tblEnergyUse	T24E	1.21	1.48
tblEnergyUse	T24NG	17.85	19.71
tblFleetMix	HHD	6.7800e-003	0.00
tblFleetMix	LDA	0.45	0.57
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.28	0.35
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	7.5640e-003	0.00
tblFleetMix	MCY	9.4820e-003	0.01
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	8.8300e-004	0.00
tblFleetMix	MHD	0.03	0.00
tblFleetMix	OBUS	4.4450e-003	0.00
tblFleetMix	SBUS	5.8900e-004	0.00
tblFleetMix	UBUS	2.9050e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	641.35	163.23

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	36.00	0.00
tblVehicleTrips	CC_TL	7.30	15.42
tblVehicleTrips	CNW_TL	7.30	15.42
tblVehicleTrips	CW_TL	9.50	15.42
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.09
tblVehicleTrips	SU_TR	0.68	1.09
tblVehicleTrips	WD_TR	6.97	1.09

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	1.92	4.00E-05	3.97E-03	0		1.00E-05	1.00E-05		1.00E-05	1.00E-05	0	7.75E-03	7.75E-03	2.00E-05	0	8.25E-03
Energy	0.0617	0.5607	0.471	3.36E-03		0.0426	0.0426		0.0426	0.0426	0	875.6118	875.6118	0.0442	0.0144	881.0198

Horizon Millbrae Station No Project - San Mateo County, Annual

**Horizon Millbrae Station No Project
San Mateo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	30.84	1000sqft	0.71	30,840.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	149.14	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2016 EFs from Egrid and PG&E to account for RPS

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and passenger

Energy Use - reweighted per project specific info

Water And Wastewater - gallons per project specific info

Solid Waste - tons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	15,420.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	46,260.00	0.00
tblEnergyUse	LightingElect	2.99	10.44
tblEnergyUse	NT24E	3.36	12.54
tblEnergyUse	NT24NG	6.90	1.26
tblEnergyUse	T24E	1.21	5.02
tblEnergyUse	T24NG	17.85	3.73
tblFleetMix	HHD	7.3010e-003	0.00
tblFleetMix	LDA	0.44	0.57
tblFleetMix	LDT1	0.05	0.07
tblFleetMix	LDT2	0.28	0.36
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	7.9370e-003	0.00
tblFleetMix	MCY	9.6810e-003	0.01
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	9.7900e-004	0.00
tblFleetMix	MHD	0.03	0.00
tblFleetMix	OBUS	4.7620e-003	0.00
tblFleetMix	SBUS	7.2900e-004	0.00
tblFleetMix	UBUS	2.8150e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	641.35	149.14

tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblSolidWaste	SolidWasteGenerationRate	38.24	31.50
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	3.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	337.32
tblVehicleTrips	SU_TR	0.68	337.32
tblVehicleTrips	WD_TR	6.97	337.32
tblWater	IndoorWaterUseRate	7,131,750.00	1,819,531.00
tblWater	OutdoorWaterUseRate	0.00	925,229.00

2.0 Emissions Summary

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	0.1366	0	2.80E-04	0		0	0		0	0	0	5.50E-04	5.50E-04	0	0	5.90E-04
Energy	8.30E-04	7.54E-03	6.34E-03	5.00E-05		5.70E-04	5.70E-04		5.70E-04	5.70E-04	0	66.6283	66.6283	7.99E-03	9.30E-04	67.1064

Horizon Millbrae Station With Project - San Mateo County, Annual

**Horizon Millbrae Station With Project
San Mateo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	55.22	1000sqft	1.27	55,215.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	149.14	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2016 EFs from Egrid and PG&E to account for RPS

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee and passenger

Energy Use - reweighted per project specific info

Water And Wastewater - gallons per project specific info

Solid Waste - tons per project specific info

Fleet Mix - reweighted to LDA/LDT/MCY

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	27,608.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	82,823.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	27608	15420
tblAreaCoating	Area_Nonresidential_Interior	82823	46260
tblEnergyUse	LightingElect	2.99	10.47
tblEnergyUse	NT24E	3.36	12.58
tblEnergyUse	NT24NG	6.90	1.26
tblEnergyUse	T24E	1.21	5.03
tblEnergyUse	T24NG	17.85	3.74
tblFleetMix	HHD	7.3010e-003	0.00
tblFleetMix	LDA	0.44	0.57
tblFleetMix	LDT1	0.05	0.07
tblFleetMix	LDT2	0.28	0.36
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	7.9370e-003	0.00
tblFleetMix	MCY	9.6810e-003	0.01
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	9.7900e-004	0.00
tblFleetMix	MHD	0.03	0.00
tblFleetMix	OBUS	4.7620e-003	0.00
tblFleetMix	SBUS	7.2900e-004	0.00
tblFleetMix	UBUS	2.8150e-003	0.00
tblLandUse	LandUseSquareFeet	55,220.00	55,215.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	641.35	149.14
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblSolidWaste	SolidWasteGenerationRate	68.47	68.50
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	270.37
tblVehicleTrips	SU_TR	0.68	270.37
tblVehicleTrips	WD_TR	6.97	270.37
tblWater	IndoorWaterUseRate	12,769,625.00	3,257,632.00
tblWater	OutdoorWaterUseRate	0.00	1,656,503.00

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive 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	0.2318	0	5.00E-04	0		0	0		0	0	0	9.90E-04	9.90E-04	0	0	1.05E-03

Horizon LMF - San Mateo County, Annual

Horizon LMF
San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	433.62	1000sqft	9.95	433,620.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2040
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	149.14	CH4 Intensity (lb/MW hr)	0.02	N2O Intensity (lb/MW hr)	0.002

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2016 EFs from Egrid and PGE to account for RPS

Land Use - -

Construction Phase - -

Off-road Equipment - -

Trips and VMT - -

Architectural Coating - -

Vehicle Trips - employee + haul trip distance weighted based on H-W employee and 120 haul truck miles

Fleet Mix - reweighted to LDA/LDT/MCY

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps - emergency generator

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	216,810.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	650,430.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	2/3/2020	11/12/2018
tblConstructionPhase	PhaseStartDate	1/7/2020	11/13/2018
tblFleetMix	HHD	7.3010e-003	0.00
tblFleetMix	LDA	0.44	0.57
tblFleetMix	LDT1	0.05	0.07
tblFleetMix	LDT2	0.28	0.36
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	7.9370e-003	0.00
tblFleetMix	MCY	9.6810e-003	0.01
tblFleetMix	MDV	0.15	0.00
tblFleetMix	MH	9.7900e-004	0.00
tblFleetMix	MHD	0.03	0.00
tblFleetMix	OBUS	4.7620e-003	0.00
tblFleetMix	SBUS	7.2900e-004	0.00
tblFleetMix	UBUS	2.8150e-003	0.00
tblOffRoadEquipment	HorsePower	78.00	0.00
tblOffRoadEquipment	LoadFactor	0.48	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.02
tblProjectCharacteristics	CO2IntensityFactor	641.35	149.14
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.002
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,072.82

tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	0.00
tblTripsAndVMT	VendorTripLength	7.30	0.00
tblTripsAndVMT	WorkerTripLength	10.80	0.00
tblTripsAndVMT	WorkerTripNumber	36.00	0.00
tblVehicleTrips	CC_TL	7.30	15.42
tblVehicleTrips	CNW_TL	7.30	15.42
tblVehicleTrips	CW_TL	9.50	15.42
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.32	1.09
tblVehicleTrips	SU_TR	0.68	1.09
tblVehicleTrips	WD_TR	6.97	1.09

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive 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	1.92	4.00E-05	3.96E-03	0		1.00E-05	1.00E-05		1.00E-05	1.00E-05	0	7.75E-03	7.75E-03	2.00E-05	0	8.25E-03
Energy	0.0579	0.5261	0.4419	3.16E-03		0.04	0.04		0.04	0.04	0	794.4694	794.4694	0.0407	0.0135	799.5024
Mobile	0.1131	0.1031	1.4952	5.59E-03	0.9653	2.23E-03	0.9675	0.2566	2.06E-03	0.2586	0	506.0755	506.0755	0.0188	0	506.5455
Stationary	0.044	0.1967	0.1121	2.10E-04		6.47E-03	6.47E-03		6.47E-03	6.47E-03	0	20.4107	20.4107	2.86E-03	0	20.4823
Waste						0	0		0	0	109.1462	0	109.1462	6.4504	0	270.4051
Water						0	0		0	0	31.8125	36.7053	68.5178	3.2724	0.0776	173.465

