

Appendix D: Corresponding Project Size for Proposed GHG Bright-line Thresholds and “De Minimis” Level

District staff uses the CalEEMod to estimate the possible project size corresponding to the proposed GHG “De Minimis” level (1,100 MT CO₂e/yr) and Bright-line threshold (10,000 MTCO₂e/yr) with different types of land use development. Table D-1 summarizes the CalEEMod settings used to estimate the possible project size corresponding to these two proposed GHG emission level.

Table D-1

Variables used for project corresponding size	
Project location	Placer County APCD
Operational Year	2020
Urbanization setting	Urban
Wind speed (m/s)	2.2 (default)
Precipitation Freq (days)	74 (default)
Climate Zone	2
Utility company	Pacific Gas & Electric
Carbon intensity (lbs/MWh)	641.35 (default)
Energy efficiency	CalEEMod default setting
Area source	No fireplace

Tables D-2 and D-3 present the corresponding project size as it relates to 1,100 MT CO₂e/yr and 10,000 MT CO₂e/yr with the setting in Table D-1, respectively. The information in the tables is for reference only. Modeling results would likely vary depending on land use, energy usage, and proposed mitigation measures. All corresponding CalEEMod results are attached in the following pages.

Table D-2

Corresponding size of projects for 1,100 MT CO ₂ e/yr					
Residential			Commercial/Industrial		
(# of units)			(square foot)		
Single Family	Condo	Apartment	General Commercial	General Office Building	General Industrial
71	105	115	35,635	83,180	99,189

Table D-3

Corresponding size of projects for 10,000 MT CO ₂ e/yr					
Residential			Commercial/Industrial		
(# of units)			(square foot)		
Single Family	Condo	Apartment	General Commercial	General Office Building	General Industrial
646	957	1,044	323,955	756,170	901,709

CalEEMod Results

646 single family units project
Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	646.00	Dwelling Unit	209.74	1,162,800.00	1848

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

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	6.5069	0.0557	4.8126	2.5000e-004		0.0265	0.0265		0.0265	0.0265							7.9956
Energy	0.1120	0.9571	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774							2,518.1775
Mobile	3.4787	9.5444	37.1351	0.0991		0.1416	6.6578		0.1305	1.8778							7,031.5614
Waste						0.0000	0.0000		0.0000	0.0000							302.6464
Water						0.0000	0.0000		0.0000	0.0000							145.8237
Total	10.0975	10.5571	42.3549	0.1055		0.2454	6.7617		0.2343	1.9817							10,006.2047

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	5.4155	0.0557	4.8126	2.5000e-004		0.0265	0.0265		0.0265	0.0265							7.9956
Energy	0.1120	0.9571	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774							2,518.1775
Mobile	3.4787	9.5444	37.1351	0.0991		0.1416	6.6578		0.1305	1.8778							7,031.5614
Waste						0.0000	0.0000		0.0000	0.0000							302.6464
Water						0.0000	0.0000		0.0000	0.0000							145.8024
Total	9.0061	10.5571	42.3549	0.1055		0.2454	6.7617		0.2343	1.9817							10,006.1834

	ROG	NOx	CO	SO2	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	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	2/23/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	3.4787	9.5444	37.1351	0.0991		0.1416	6.6578		0.1305	1.8778							7,031.5614
Unmitigated	3.4787	9.5444	37.1351	0.0991		0.1416	6.6578		0.1305	1.8778							7,031.5614

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	6,182.22	6,511.68	5665.42	17,632,569	17,632,569
Total	6,182.22	6,511.68	5,665.42	17,632,569	17,632,569

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
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

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					
NaturalGas Mitigated	0.1120	0.9571	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774						1,115.1140
NaturalGas Unmitigated	0.1120	0.9571	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774						1,115.1140
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000						1,403.0636
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000						1,403.0636

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					
Single Family Housing	2.077e+007	0.1120	0.9571	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774						1,115.1140
Total		0.1120	0.9571	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774						1,115.1140

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						
Single Family Housing	2.077e+007	0.1120	0.9571	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774							1,115.1140
Total		0.1120	0.9571	0.4073	6.1100e-003		0.0774	0.0774		0.0774	0.0774							1,115.1140

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	4.8045e+006				1,403.0636
Total					1,403.0636

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	4.8045e+006				1,403.0636
Total					1,403.0636

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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	0.7276					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	4.5413					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.1466	0.0557	4.8126	2.5000e-004		0.0265	0.0265		0.0265	0.0265						7.9956
Total	5.4155	0.0557	4.8126	2.5000e-004		0.0265	0.0265		0.0265	0.0265						7.9956

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				145.8237
Mitigated				145.8024

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	42.0895 / 26.5347				145.8237
Total					145.8237

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	42.0895 / 26.5347				145.8024
Total					145.8024

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				302.6464
Unmitigated				302.6464

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	665.28				302.6464
Total					302.6464

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	665.28				302.6464
Total					302.6464

9.0 Operational Offroad

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

957 Condo units project
Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	957.00	Dwelling Unit	59.81	957,000.00	2737

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Construction Phase - no construction
 Woodstoves - no fireplace
 Area Coating - low VOC architectural coating
 Area Mitigation - low VOC paint (100 g/l)

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	5.4517	0.0825	7.1295	3.8000e-004		0.0392	0.0392		0.0392	0.0392							11.8449
Energy	0.1131	0.9663	0.4112	6.1700e-003		0.0781	0.0781		0.0781	0.0781							2,363.3665
Mobile	3.5680	9.7894	38.0884	0.1017		0.1452	6.8287		0.1338	1.9260							7,212.0593
Waste						0.0000	0.0000		0.0000	0.0000							200.2631
Water						0.0000	0.0000		0.0000	0.0000							216.0267
Total	9.1327	10.8381	45.6290	0.1082		0.2625	6.9461		0.2511	2.0434							10,003.5605

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	4.5535	0.0825	7.1295	3.8000e-004		0.0392	0.0392		0.0392	0.0392							11.8449
Energy	0.1131	0.9663	0.4112	6.1700e-003		0.0781	0.0781		0.0781	0.0781							2,363.3665
Mobile	3.5680	9.7894	38.0884	0.1017		0.1452	6.8287		0.1338	1.9260							7,212.0593
Waste						0.0000	0.0000		0.0000	0.0000							200.2631
Water						0.0000	0.0000		0.0000	0.0000							215.9952
Total	8.2345	10.8381	45.6290	0.1082		0.2625	6.9461		0.2511	2.0434							10,003.5289

	ROG	NOx	CO	SO2	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	9.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	4/7/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	3.5680	9.7894	38.0884	0.1017		0.1452	6.8287		0.1338	1.9260							7,212.0593
Unmitigated	3.5680	9.7894	38.0884	0.1017		0.1452	6.8287		0.1338	1.9260							7,212.0593

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	6,306.63	6,852.12	5808.99	18,085,191	18,085,191
Total	6,306.63	6,852.12	5,808.99	18,085,191	18,085,191

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

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						
NaturalGas Mitigated	0.1131	0.9663	0.4112	6.1700e-003		0.0781	0.0781		0.0781	0.0781							1,125.8275
NaturalGas Unmitigated	0.1131	0.9663	0.4112	6.1700e-003		0.0781	0.0781		0.0781	0.0781							1,125.8275
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000							1,237.5390
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000							1,237.5390

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					
Condo/Townhouse	2.09696e+007	0.1131	0.9663	0.4112	6.1700e-003		0.0781	0.0781		0.0781	0.0781						1,125.8275
Total		0.1131	0.9663	0.4112	6.1700e-003		0.0781	0.0781		0.0781	0.0781						1,125.8275

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Condo/Townhouse	2.09696e+007	0.1131	0.9663	0.4112	6.1700e-003		0.0781	0.0781		0.0781	0.0781							1,125.8275
Total		0.1131	0.9663	0.4112	6.1700e-003		0.0781	0.0781		0.0781	0.0781							1,125.8275

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	4.23769e+006				1,237.5390
Total					1,237.5390

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	4.23769e+006				1,237.5390
Total					1,237.5390

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

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	0.5988					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.7376					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.2171	0.0825	7.1295	3.8000e-004		0.0392	0.0392		0.0392	0.0392						11.8449
Total	4.5535	0.0825	7.1295	3.8000e-004		0.0392	0.0392		0.0392	0.0392						11.8449

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				216.0267
Mitigated				215.9952

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	62.3524 / 39.3091				216.0267
Total					216.0267

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	62.3524 / 39.3091				215.9952
Total					215.9952

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				200.2631
Unmitigated				200.2631

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	440.22				200.2631
Total					200.2631

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	440.22				200.2631
Total					200.2631

9.0 Operational Offroad

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

1044 Apartment units project
Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	1,044.00	Dwelling Unit	16.84	1,044,000.00	2986

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

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	5.9473	0.0900	7.7776	4.1000e-004		0.0428	0.0428		0.0428	0.0428							12.9218
Energy	0.0562	0.4800	0.2042	3.0600e-003		0.0388	0.0388		0.0388	0.0388							1,662.4234
Mobile	3.8923	10.6793	41.5509	0.1109		0.1584	7.4495		0.1460	2.1011							7,867.7010
Waste						0.0000	0.0000		0.0000	0.0000							218.4688
Water						0.0000	0.0000		0.0000	0.0000							235.6655
Total	9.8958	11.2492	49.5328	0.1144		0.2400	7.5311		0.2275	2.1827							9,997.1805

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	4.9674	0.0900	7.7776	4.1000e-004		0.0428	0.0428		0.0428	0.0428							12.9218
Energy	0.0562	0.4800	0.2042	3.0600e-003		0.0388	0.0388		0.0388	0.0388							1,662.4234
Mobile	3.8923	10.6793	41.5509	0.1109		0.1584	7.4495		0.1460	2.1011							7,867.7010
Waste						0.0000	0.0000		0.0000	0.0000							218.4688
Water						0.0000	0.0000		0.0000	0.0000							235.6311
Total	8.9159	11.2492	49.5328	0.1144		0.2400	7.5311		0.2275	2.1827							9,997.1460

	ROG	NOx	CO	SO2	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	9.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	3.8923	10.6793	41.5509	0.1109		0.1584	7.4495		0.1460	2.1011						7,867.7010
Unmitigated	3.8923	10.6793	41.5509	0.1109		0.1584	7.4495		0.1460	2.1011						7,867.7010

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	6,879.96	7,475.04	6337.08	19,729,300	19,729,300
Total	6,879.96	7,475.04	6,337.08	19,729,300	19,729,300

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Apartments High Rise	1.04165e+007	0.0562	0.4800	0.2042	3.0600e-003		0.0388	0.0388		0.0388	0.0388							559.2459
Total		0.0562	0.4800	0.2042	3.0600e-003		0.0388	0.0388		0.0388	0.0388							559.2459

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	3.7776e+006				1,103.1775
Total					1,103.1775

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	3.7776e+006				1,103.1775
Total					1,103.1775

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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	0.6533					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	4.0773					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.2368	0.0900	7.7776	4.1000e-004		0.0428	0.0428		0.0428	0.0428						12.9218
Total	4.9674	0.0900	7.7776	4.1000e-004		0.0428	0.0428		0.0428	0.0428						12.9218

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				235.6655
Mitigated				235.6311

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	68.0208 / 42.8827				235.6655
Total					235.6655

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	68.0208 / 42.8827				235.6311
Total					235.6311

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				218.4688
Unmitigated				218.4688

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	480.24				218.4688
Total					218.4688

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	480.24				218.4688
Total					218.4688

9.0 Operational Offroad

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

**323,955 general commercial project
Placer County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	323.96	1000sqft	7.44	323,955.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - no construction
- Woodstoves - no fireplace
- Area Coating - low VOC architectural coating
- Area Mitigation - low VOC paint (100 g/l)

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	1.5846	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005							6.1100e-003
Energy	0.0215	0.1952	0.1639	1.1700e-003		0.0148	0.0148		0.0148	0.0148							1,480.5174
Mobile	6.2708	12.5432	55.9315	0.1169		0.1720	7.6541		0.1585	2.1649							8,282.0467
Waste						0.0000	0.0000		0.0000	0.0000							154.7396
Water						0.0000	0.0000		0.0000	0.0000							82.7061
Total	7.8769	12.7384	56.0985	0.1181		0.1868	7.6690		0.1733	2.1797							10,000.0159

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	1.4156	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005							6.1100e-003
Energy	0.0215	0.1952	0.1639	1.1700e-003		0.0148	0.0148		0.0148	0.0148							1,480.5174
Mobile	6.2708	12.5432	55.9315	0.1169		0.1720	7.6541		0.1585	2.1649							8,282.0467
Waste						0.0000	0.0000		0.0000	0.0000							154.7396
Water						0.0000	0.0000		0.0000	0.0000							82.6939
Total	7.7080	12.7384	56.0985	0.1181		0.1868	7.6690		0.1733	2.1797							10,000.0037

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	6.2708	12.5432	55.9315	0.1169		0.1720	7.6541		0.1585	2.1649							8,282.0467
Unmitigated	6.2708	12.5432	55.9315	0.1169		0.1720	7.6541		0.1585	2.1649							8,282.0467

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	14,357.69	13,619.07	6618.40	20,246,132	20,246,132
Total	14,357.69	13,619.07	6,618.40	20,246,132	20,246,132

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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

2.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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						
Strip Mall	3.98141e+006	0.0215	0.1952	0.1639	1.1700e-003		0.0148	0.0148		0.0148	0.0148							213.7561
Total		0.0215	0.1952	0.1639	1.1700e-003		0.0148	0.0148		0.0148	0.0148							213.7561

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	4.33776e+006				1,266.7613
Total					1,266.7613

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	4.33776e+006				1,266.7613
Total					1,266.7613

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	1.4156	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005							6.1100e-003
Unmitigated	1.5846	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005							6.1100e-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	0.3191					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	1.2652					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	2.8000e-004	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005							6.1100e-003
Total	1.5846	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005							6.1100e-003

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	0.1502					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	1.2652					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	2.8000e-004	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						6.1100e-003
Total	1.4156	3.0000e-005	3.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005						6.1100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				82.7061
Mitigated				82.6939

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	23.9958 / 14.7071				82.7061
Total					82.7061

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	23.9958 / 14.7071				82.6939
Total					82.6939

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				154.7396
Unmitigated				154.7396

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	340.15				154.7396
Total					154.7396

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	340.15				154.7396
Total					154.7396

9.0 Operational Offroad

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

**756,170 general office project
Placer County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	756.17	1000sqft	17.36	756,170.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - no construction
- Woodstoves - no fireplace
- Area Coating - low VOC architectural coating
- Area Mitigation - low VOC paint (100 g/l)
- Off-road Equipment -

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	3.6987	6.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0143
Energy	0.0705	0.6413	0.5387	3.8500e-003		0.0487	0.0487		0.0487	0.0487							3,168.9594
Mobile	3.3659	8.4330	34.0374	0.0853		0.1227	5.6941		0.1130	1.6071							6,047.8824
Waste						0.0000	0.0000		0.0000	0.0000							319.9150
Water						0.0000	0.0000		0.0000	0.0000							463.2246
Total	7.1351	9.0744	34.5830	0.0891		0.1714	5.7429		0.1618	1.6558							9,999.9957

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	3.3044	6.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0143
Energy	0.0705	0.6413	0.5387	3.8500e-003		0.0487	0.0487		0.0487	0.0487							3,168.9594
Mobile	3.3659	8.4330	34.0374	0.0853		0.1227	5.6941		0.1130	1.6071							6,047.8824
Waste						0.0000	0.0000		0.0000	0.0000							319.9150
Water						0.0000	0.0000		0.0000	0.0000							463.1566
Total	6.7408	9.0744	34.5830	0.0891		0.1714	5.7429		0.1618	1.6558							9,999.9277

	ROG	NOx	CO	SO2	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	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	3.3659	8.4330	34.0374	0.0853		0.1227	5.6941		0.1130	1.6071						6,047.8824
Unmitigated	3.3659	8.4330	34.0374	0.0853		0.1227	5.6941		0.1130	1.6071						6,047.8824

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	8,325.43	1,792.12	741.05	15,076,038	15,076,038
Total	8,325.43	1,792.12	741.05	15,076,038	15,076,038

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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						
General Office Building	1.30817e+007	0.0705	0.6413	0.5387	3.8500e-003		0.0487	0.0487		0.0487	0.0487							702.3400
Total		0.0705	0.6413	0.5387	3.8500e-003		0.0487	0.0487		0.0487	0.0487							702.3400

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8.44642e+006				2,466.6194
Total					2,466.6194

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8.44642e+006				2,466.6194
Total					2,466.6194

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

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	0.3505					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	2.9532					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	6.6000e-004	6.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0143
Total	3.3044	6.0000e-005	6.9900e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0143

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				463.2246
Mitigated				463.1566

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	134.397 / 82.3723				463.2246
Total					463.2246

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	134.397 / 82.3723				463.1566
Total					463.1566

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				319.9150
Unmitigated				319.9150

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	703.24				319.9150
Total					319.9150

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	703.24				319.9150
Total					319.9150

9.0 Operational Offroad

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

**901,709 general industrial project
Placer County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	901.71	1000sqft	20.70	901,709.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

Off-road Equipment -

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Area	4.4105	8.0000e-005	8.3400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0170
Energy	0.0954	0.8668	0.7281	5.2000e-003		0.0659	0.0659		0.0659	0.0659							3,379.8601
Mobile	2.7000	7.4778	28.9875	0.0779		0.1111	5.2326		0.1024	1.4758							5,523.4049
Waste						0.0000	0.0000		0.0000	0.0000							508.6505
Water						0.0000	0.0000		0.0000	0.0000							588.0768
Total	7.2059	8.3446	29.7240	0.0831		0.1770	5.2986		0.1683	1.5417							10,000.0094

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	3.9404	8.0000e-005	8.3400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005							0.0170
Energy	0.0954	0.8668	0.7281	5.2000e-003		0.0659	0.0659		0.0659	0.0659							3,379.8601
Mobile	2.7000	7.4778	28.9875	0.0779		0.1111	5.2326		0.1024	1.4758							5,523.4049
Waste						0.0000	0.0000		0.0000	0.0000							508.6505
Water						0.0000	0.0000		0.0000	0.0000							587.9713
Total	6.7357	8.3446	29.7240	0.0831		0.1770	5.2986		0.1683	1.5417							9,999.9039

	ROG	NOx	CO	SO2	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	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	2.7000	7.4778	28.9875	0.0779		0.1111	5.2326		0.1024	1.4758						5,523.4049
Unmitigated	2.7000	7.4778	28.9875	0.0779		0.1111	5.2326		0.1024	1.4758						5,523.4049

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	6,284.91	1,190.26	613.16	13,858,493	13,858,493
Total	6,284.91	1,190.26	613.16	13,858,493	13,858,493

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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						
General Light Industry	1.76825e+007	0.0954	0.8668	0.7281	5.2000e-003		0.0659	0.0659		0.0659	0.0659							949.3489
Total		0.0954	0.8668	0.7281	5.2000e-003		0.0659	0.0659		0.0659	0.0659							949.3489

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	8.32277e+006				2,430.5113
Total					2,430.5113

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	8.32277e+006				2,430,511 3
Total					2,430,511 3

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- No Hearths Installed

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	0.4179					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	3.5216					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	7.8000e-004	8.0000e-005	8.3400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0170
Total	3.9403	8.0000e-005	8.3400e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005						0.0170

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				588.0768
Mitigated				587.9713

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	208.52 / 0				588.0768
Total					588.0768

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	208.52 / 0				587.9713
Total					587.9713

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				508.6505
Unmitigated				508.6505

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	1118.12				508.6505
Total					508.6505

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	1118.12				508.6505
Total					508.6505

9.0 Operational Offroad

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

**71 single family dwelling residential project
Placer County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	71.00	Dwelling Unit	23.05	127,800.00	203

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - no construction
- Woodstoves - no fireplace
- Area Coating - low VOC architectural coating
- Area Mitigation - low VOC paint (100 g/l)

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	0.7152	6.1200e-003	0.5289	3.0000e-005		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003							0.8788
Energy	0.0123	0.1052	0.0448	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003							276.7656
Mobile	0.3823	1.0490	4.0814	0.0109		0.0156	0.7317		0.0143	0.2064							772.8187
Waste						0.0000	0.0000		0.0000	0.0000							33.2453
Water						0.0000	0.0000		0.0000	0.0000							16.0271
Total	1.1098	1.1603	4.6551	0.0116		0.0270	0.7432		0.0258	0.2178							1,099.7354

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	0.5952	6.1200e-003	0.5289	3.0000e-005		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003							0.8788
Energy	0.0123	0.1052	0.0448	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003							276.7656
Mobile	0.3823	1.0490	4.0814	0.0109		0.0156	0.7317		0.0143	0.2064							772.8187
Waste						0.0000	0.0000		0.0000	0.0000							33.2453
Water						0.0000	0.0000		0.0000	0.0000							16.0247
Total	0.9898	1.1603	4.6551	0.0116		0.0270	0.7432		0.0258	0.2178							1,099.7331

	ROG	NOx	CO	SO2	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	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	0.3823	1.0490	4.0814	0.0109		0.0156	0.7317		0.0143	0.2064							772.8187
Unmitigated	0.3823	1.0490	4.0814	0.0109		0.0156	0.7317		0.0143	0.2064							772.8187

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	679.47	715.68	622.67	1,937,945	1,937,945
Total	679.47	715.68	622.67	1,937,945	1,937,945

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
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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						
Single Family Housing	2.28278e+006	0.0123	0.1052	0.0448	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003							122.5590
Total		0.0123	0.1052	0.0448	6.7000e-004		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003							122.5590

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	528048				154.2067
Total					154.2067

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	528048				154.2067
Total					154.2067

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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	0.0800					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.4991					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.0161	6.1200e-003	0.5289	3.0000e-005		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003						0.8788
Total	0.5952	6.1200e-003	0.5289	3.0000e-005		2.9100e-003	2.9100e-003		2.9100e-003	2.9100e-003						0.8788

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				16.0271
Mitigated				16.0247

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	4.62594 / 2.91635				16.0271
Total					16.0271

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	4.62594 / 2.91635				16.0247
Total					16.0247

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				33.2453
Unmitigated				33.2453

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	73.08				33.2453
Total					33.2453

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	73.08				33.2453
Total					33.2453

9.0 Operational Offroad

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

105 Condo unit project
Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	105.00	Dwelling Unit	6.56	105,000.00	300

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

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	0.5982	9.0500e-003	0.7822	4.0000e-005		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003							1.2996
Energy	0.0124	0.1060	0.0451	6.8000e-004		8.5700e-003	8.5700e-003		8.5700e-003	8.5700e-003							259.3035
Mobile	0.3915	1.0741	4.1790	0.0112		0.0159	0.7492		0.0147	0.2113							791.2918
Waste						0.0000	0.0000		0.0000	0.0000							21.9724
Water						0.0000	0.0000		0.0000	0.0000							23.7020
Total	1.0020	1.1891	5.0063	0.0119		0.0288	0.7621		0.0276	0.2242							1,097.5693

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	0.4996	9.0500e-003	0.7822	4.0000e-005		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003							1.2996
Energy	0.0124	0.1060	0.0451	6.8000e-004		8.5700e-003	8.5700e-003		8.5700e-003	8.5700e-003							259.3035
Mobile	0.3915	1.0741	4.1790	0.0112		0.0159	0.7492		0.0147	0.2113							791.2918
Waste						0.0000	0.0000		0.0000	0.0000							21.9724
Water						0.0000	0.0000		0.0000	0.0000							23.6985
Total	0.9035	1.1891	5.0063	0.0119		0.0288	0.7621		0.0276	0.2242							1,097.5659

	ROG	NOx	CO	SO2	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	9.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40

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
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	0.3915	1.0741	4.1790	0.0112		0.0159	0.7492		0.0147	0.2113						791.2918
Unmitigated	0.3915	1.0741	4.1790	0.0112		0.0159	0.7492		0.0147	0.2113						791.2918

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	691.95	751.80	637.35	1,984,269	1,984,269
Total	691.95	751.80	637.35	1,984,269	1,984,269

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Condo/Townhouse	2.30074e+006	0.0124	0.1060	0.0451	6.8000e-004		8.5700e-003	8.5700e-003		8.5700e-003	8.5700e-003							123.5234
Total		0.0124	0.1060	0.0451	6.8000e-004		8.5700e-003	8.5700e-003		8.5700e-003	8.5700e-003							123.5234

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	464951				135.7801
Total					135.7801

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	464951				135.7801
Total					135.7801

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

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	0.0657					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.4101					0.0000	0.0000		0.0000	0.0000						0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	0.0238	9.0500e-003	0.7822	4.0000e-005		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003						1.2996
Total	0.4996	9.0500e-003	0.7822	4.0000e-005		4.3000e-003	4.3000e-003		4.3000e-003	4.3000e-003						1.2996

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				23.7020
Mitigated				23.6985

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	6.84117 / 4.31291				23.7020
Total					23.7020

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	6.84117 / 4.31291				23.6985
Total					23.6985

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				21.9724
Unmitigated				21.9724

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	48.3				21.9724
Total					21.9724

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	48.3				21.9724
Total					21.9724

9.0 Operational Offroad

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

**115 apartment unit project
Placer County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	115.00	Dwelling Unit	1.85	115,000.00	329

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use -
 Construction Phase - no construction
 Woodstoves - no fireplace
 Area Coating - low VOC architectural coating
 Area Mitigation - low VOC paint (100 g/l)

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	0.6551	9.9100e-003	0.8567	5.0000e-005		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	1.3948	1.3948	1.3600e-003	0.0000	1.4234
Energy	6.1900e-003	0.0529	0.0225	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	182.2827	182.2827	6.6500e-003	2.2600e-003	183.1214
Mobile	0.4288	1.1764	4.5770	0.0122	0.8031	0.0175	0.8206	0.2154	0.0161	0.2315	0.0000	866.0755	866.0755	0.0275	0.0000	866.6529
Waste						0.0000	0.0000		0.0000	0.0000	10.7382	0.0000	10.7382	0.6346	0.0000	24.0651
Water						0.0000	0.0000		0.0000	0.0000	2.3771	16.6040	18.9811	0.2449	5.9200e-003	25.9593
Total	1.0901	1.2391	5.4562	0.0126	0.8031	0.0264	0.8296	0.2154	0.0251	0.2404	13.1153	1,066.3571	1,079.4724	0.9150	8.1800e-003	1,101.2220

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	0.5472	9.9100e-003	0.8567	5.0000e-005		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	1.3948	1.3948	1.3600e-003	0.0000	1.4234
Energy	6.1900e-003	0.0529	0.0225	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	182.2827	182.2827	6.6500e-003	2.2600e-003	183.1214
Mobile	0.4288	1.1764	4.5770	0.0122	0.8031	0.0175	0.8206	0.2154	0.0161	0.2315	0.0000	866.0755	866.0755	0.0275	0.0000	866.6529
Waste						0.0000	0.0000		0.0000	0.0000	10.7382	0.0000	10.7382	0.6346	0.0000	24.0651
Water						0.0000	0.0000		0.0000	0.0000	2.3771	16.6040	18.9811	0.2449	5.9100e-003	25.9555
Total	0.9821	1.2391	5.4562	0.0126	0.8031	0.0264	0.8296	0.2154	0.0251	0.2404	13.1153	1,066.3571	1,079.4724	0.9150	8.1700e-003	1,101.2182

	ROG	NOx	CO	SO2	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	9.90	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	0.12	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Rubber Tired Dozers	1	8.00	255	0.40

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
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	0.4288	1.1764	4.5770	0.0122	0.8031	0.0175	0.8206	0.2154	0.0161	0.2315	0.0000	866.0755	866.0755	0.0275	0.0000	866.6529
Unmitigated	0.4288	1.1764	4.5770	0.0122	0.8031	0.0175	0.8206	0.2154	0.0161	0.2315	0.0000	866.0755	866.0755	0.0275	0.0000	866.6529

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	757.85	823.40	698.05	2,173,247	2,173,247
Total	757.85	823.40	698.05	2,173,247	2,173,247

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

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					
NaturalGas Mitigated	6.1900e-003	0.0529	0.0225	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	61.2301	61.2301	1.1700e-003	1.1200e-003	61.6028
NaturalGas Unmitigated	6.1900e-003	0.0529	0.0225	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	61.2301	61.2301	1.1700e-003	1.1200e-003	61.6028
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	121.0526	121.0526	5.4700e-003	1.1300e-003	121.5186
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	121.0526	121.0526	5.4700e-003	1.1300e-003	121.5186

5.2 Energy by Land Use - NaturalGas Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	1.14741e+006	6.1900e-003	0.0529	0.0225	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	61.2301	61.2301	1.1700e-003	1.1200e-003	61.6028
Total		6.1900e-003	0.0529	0.0225	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	61.2301	61.2301	1.1700e-003	1.1200e-003	61.6028

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	1.14741e+006	6.1900e-003	0.0529	0.0225	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	61.2301	61.2301	1.1700e-003	1.1200e-003	61.6028
Total		6.1900e-003	0.0529	0.0225	3.4000e-004		4.2700e-003	4.2700e-003		4.2700e-003	4.2700e-003	0.0000	61.2301	61.2301	1.1700e-003	1.1200e-003	61.6028

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	416115	121.0526	5.4700e-003	1.1300e-003	121.5186
Total		121.0526	5.4700e-003	1.1300e-003	121.5186

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	416115	121.0526	5.4700e-003	1.1300e-003	121.5186
Total		121.0526	5.4700e-003	1.1300e-003	121.5186

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.5472	9.9100e-003	0.8567	5.0000e-005		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	1.3948	1.3948	1.3600e-003	0.0000	1.4234
Unmitigated	0.6551	9.9100e-003	0.8567	5.0000e-005		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	1.3948	1.3948	1.3600e-003	0.0000	1.4234

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	0.1799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0261	9.9100e-003	0.8567	5.0000e-005		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	1.3948	1.3948	1.3600e-003	0.0000	1.4234
Total	0.6551	9.9100e-003	0.8567	5.0000e-005		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	1.3948	1.3948	1.3600e-003	0.0000	1.4234

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	0.0720					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4491					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0261	9.9100e-003	0.8567	5.0000e-005		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	1.3948	1.3948	1.3600e-003	0.0000	1.4234
Total	0.5472	9.9100e-003	0.8567	5.0000e-005		4.7100e-003	4.7100e-003		4.7100e-003	4.7100e-003	0.0000	1.3948	1.3948	1.3600e-003	0.0000	1.4234

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	18.9811	0.2449	5.9200e-003	25.9593
Mitigated	18.9811	0.2449	5.9100e-003	25.9555

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	7.49271 / 4.72367	18.9811	0.2449	5.9200e-003	25.9593
Total		18.9811	0.2449	5.9200e-003	25.9593

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	7.49271 / 4.72367	18.9811	0.2449	5.9100e-003	25.9555
Total		18.9811	0.2449	5.9100e-003	25.9555

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	10.7382	0.6346	0.0000	24.0651
Unmitigated	10.7382	0.6346	0.0000	24.0651

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	52.9	10.7382	0.6346	0.0000	24.0651
Total		10.7382	0.6346	0.0000	24.0651

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	52.9	10.7382	0.6346	0.0000	24.0651
Total		10.7382	0.6346	0.0000	24.0651

9.0 Operational Offroad

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

**35,635 sf general commercial project
Placer County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	35.64	1000sqft	0.82	35,635.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - no construction
- Woodstoves - no fireplace
- Area Coating - low VOC architectural coating
- Area Mitigation - low VOC paint (100 g/l)

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	0.1743	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							6.7000e-004
Energy	2.3600e-003	0.0215	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003							162.8567
Mobile	0.6898	1.3798	6.1525	0.0129		0.0189	0.8420		0.0174	0.2381							911.0239
Waste						0.0000	0.0000		0.0000	0.0000							17.0184
Water						0.0000	0.0000		0.0000	0.0000							9.0965
Total	0.8665	1.4012	6.1708	0.0130		0.0206	0.8436		0.0191	0.2398							1,099.9961

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	0.1557	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						6.7000e-004
Energy	2.3600e-003	0.0215	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003						162.8567
Mobile	0.6898	1.3798	6.1525	0.0129		0.0189	0.8420		0.0174	0.2381						911.0239
Waste						0.0000	0.0000		0.0000	0.0000						17.0184
Water						0.0000	0.0000		0.0000	0.0000						9.0952
Total	0.8479	1.4012	6.1708	0.0130		0.0206	0.8436		0.0191	0.2398						1,099.9948

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	2.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/13/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Demolition	Rubber Tired Dozers	1	1.00	255	0.40

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
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	0.6898	1.3798	6.1525	0.0129		0.0189	0.8420		0.0174	0.2381						911.0239
Unmitigated	0.6898	1.3798	6.1525	0.0129		0.0189	0.8420		0.0174	0.2381						911.0239

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	1,579.34	1,498.10	728.02	2,227,071	2,227,071
Total	1,579.34	1,498.10	728.02	2,227,071	2,227,071

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
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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						
Strip Mall	437954	2.3600e-003	0.0215	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003							23.5131
Total		2.3600e-003	0.0215	0.0180	1.3000e-004		1.6300e-003	1.6300e-003		1.6300e-003	1.6300e-003							23.5131

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	477153				139.3436
Total					139.3436

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	477153				139.3436
Total					139.3436

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.1557	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							6.7000e-004
Unmitigated	0.1743	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							6.7000e-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	0.0351					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	0.1392					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	3.0000e-005	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							6.7000e-004
Total	0.1743	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							6.7000e-004

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	0.0165					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.1392					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	3.0000e-005	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						6.7000e-004
Total	0.1557	0.0000	3.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						6.7000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				9.0965
Mitigated				9.0952

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	2.6392 / 1.61758				9.0965
Total					9.0965

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	2.6392 / 1.61758				9.0952
Total					9.0952

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				17.0184
Unmitigated				17.0184

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	37.41				17.0184
Total					17.0184

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	37.41				17.0184
Total					17.0184

9.0 Operational Offroad

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

83,180 sf general office building project
Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	83.18	1000sqft	1.91	83,180.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

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	0.4069	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.5700e-003
Energy	7.7600e-003	0.0705	0.0593	4.2000e-004		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003							348.5910
Mobile	0.3703	0.9277	3.7442	9.3800e-003		0.0135	0.6264		0.0124	0.1768							665.2775
Waste						0.0000	0.0000		0.0000	0.0000							35.1923
Water						0.0000	0.0000		0.0000	0.0000							50.9555
Total	0.7849	0.9982	3.8042	9.8000e-003		0.0189	0.6317		0.0178	0.1821							1,100.0178

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	0.3635	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.5700e-003
Energy	7.7600e-003	0.0705	0.0593	4.2000e-004		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003						348.5910
Mobile	0.3703	0.9277	3.7442	9.3800e-003		0.0135	0.6264		0.0124	0.1768						665.2775
Waste						0.0000	0.0000		0.0000	0.0000						35.1923
Water						0.0000	0.0000		0.0000	0.0000						50.9480
Total	0.7415	0.9982	3.8042	9.8000e-003		0.0189	0.6317		0.0178	0.1821						1,100.0103

	ROG	NOx	CO	SO2	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	5.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Rubber Tired Dozers	1	8.00	255	0.40

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
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	0.3703	0.9277	3.7442	9.3800e-003		0.0135	0.6264		0.0124	0.1768						665.2775
Unmitigated	0.3703	0.9277	3.7442	9.3800e-003		0.0135	0.6264		0.0124	0.1768						665.2775

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	915.81	197.14	81.52	1,658,390	1,658,390
Total	915.81	197.14	81.52	1,658,390	1,658,390

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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						
General Office Building	1.43901e+006	7.7600e-003	0.0705	0.0593	4.2000e-004		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003							77.2586
Total		7.7600e-003	0.0705	0.0593	4.2000e-004		5.3600e-003	5.3600e-003		5.3600e-003	5.3600e-003							77.2586

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	929121				271.3324
Total					271.3324

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	929121				271.3324
Total					271.3324

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.3635	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.5700e-003
Unmitigated	0.4069	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.5700e-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	0.0819					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.3249					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	7.0000e-005	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.5700e-003
Total	0.4069	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.5700e-003

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	0.0386					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.3249					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	7.0000e-005	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.5700e-003
Total	0.3635	1.0000e-005	7.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.5700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				50.9555
Mitigated				50.9480

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	14.7839 / 9.0611				50.9555
Total					50.9555

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	14.7839 / 9.0611				50.9480
Total					50.9480

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				35.1923
Unmitigated				35.1923

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	77.36				35.1923
Total					35.1923

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	77.36				35.1923
Total					35.1923

9.0 Operational Offroad

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

99,189 sf general industrial building project
Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	99.19	1000sqft	2.28	99,189.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - no construction

Woodstoves - no fireplace

Area Coating - low VOC architectural coating

Area Mitigation - low VOC paint (100 g/l)

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	0.4852	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.8700e-003
Energy	0.0105	0.0954	0.0801	5.7000e-004		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003							371.7884
Mobile	0.2970	0.8226	3.1887	8.5700e-003		0.0122	0.5756		0.0113	0.1623							607.5807
Waste						0.0000	0.0000		0.0000	0.0000							55.9547
Water						0.0000	0.0000		0.0000	0.0000							64.6897
Total	0.7927	0.9179	3.2697	9.1400e-003		0.0195	0.5829		0.0185	0.1696							1,100.0153

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	0.4334	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.8700e-003
Energy	0.0105	0.0954	0.0801	5.7000e-004		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003						371.7884
Mobile	0.2970	0.8226	3.1887	8.5700e-003		0.0122	0.5756		0.0113	0.1623						607.5807
Waste						0.0000	0.0000		0.0000	0.0000						55.9547
Water						0.0000	0.0000		0.0000	0.0000						64.6781
Total	0.7409	0.9179	3.2697	9.1400e-003		0.0195	0.5829		0.0185	0.1696						1,100.0037

	ROG	NOx	CO	SO2	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	6.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2016	5	0	

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 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demolition	Rubber Tired Dozers	1	8.00	255	0.40

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
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

4.0 Operational Detail - Mobile

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	0.2970	0.8226	3.1887	8.5700e-003		0.0122	0.5756		0.0113	0.1623							607.5807
Unmitigated	0.2970	0.8226	3.1887	8.5700e-003		0.0122	0.5756		0.0113	0.1623							607.5807

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	691.35	130.93	67.45	1,524,450	1,524,450
Total	691.35	130.93	67.45	1,524,450	1,524,450

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.436273	0.063932	0.189732	0.169543	0.063617	0.008590	0.013234	0.039559	0.001712	0.001072	0.008451	0.000528	0.003758

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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						
General Light Industry	1.9451e+006	0.0105	0.0954	0.0801	5.7000e-004		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003							104.4294
Total		0.0105	0.0954	0.0801	5.7000e-004		7.2500e-003	7.2500e-003		7.2500e-003	7.2500e-003							104.4294

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	915514				267.3590
Total					267.3590

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	915514				267.3590
Total					267.3590

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.4334	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.8700e-003
Unmitigated	0.4852	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.8700e-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	0.0977					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	0.3874					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	9.0000e-005	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.8700e-003
Total	0.4852	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000							1.8700e-003

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	0.0460					0.0000	0.0000		0.0000	0.0000						0.0000
Consumer Products	0.3874					0.0000	0.0000		0.0000	0.0000						0.0000
Landscaping	9.0000e-005	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.8700e-003
Total	0.4334	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000						1.8700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated				64.6897
Mitigated				64.6781

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	22.9377 / 0				64.6897
Total					64.6897

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	22.9377 / 0				64.6781
Total					64.6781

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				55.9547
Unmitigated				55.9547

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	123				55.9547
Total					55.9547

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	123				55.9547
Total					55.9547

9.0 Operational Offroad

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