

## **Appendix B**

### **Air Quality/GHG – CalEEModel Results**

The Air Quality/GHG report and CalEEModel addressed a larger project configuration. The conclusions presented in the attached report and shown in Section C. Air Quality and Section H. Greenhouse Gas Emissions, Chapter 3 of this ISMND are not changed with the currently proposed project.

Greenfield Mixed Retail and Residential - Monterey County, Annual

**Greenfield Mixed Retail and Residential  
Monterey County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	20.00	Dwelling Unit	0.23	20,380.00	57
Condo/Townhouse	20.00	Dwelling Unit	0.24	22,000.00	57
Parking Lot	101.00	Space	0.91	40,400.00	0
Strip Mall	3.20	1000sqft	0.04	3,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.6	<b>Precipitation Freq (Days)</b>	55
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	307	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

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Project Characteristics - "Start of Construction" and "Operational Year" are assumptions made by DD&A, information was not provided by the client. CO2 intensity factor of 641 pounds/megawatt hour reduced to 307 pounds/megawatt hour to reflect more recent Pacific Gas & Electric energy projections for operational year.

Land Use - The project is the development of a currently vacant 1.42-acre site in the City of Greenfield. The proposed project consists of a 45,580 square foot mixed-use development consisting of 20 townhouse-style apartments, 16 three-bedroom apartments, four (4) AHC accessible apartments, two (2) commercial spaces, and 101 on-site parking spaces.

Construction Phase - Defaults used, no detailed info provided by client.

Off-road Equipment - Hours/day reduced to reflect that no single piece of equipment will run for the full day.

Grading - This assumes that there will be no import/export, very minor site prep/grading.

Trips and VMT - Defaults used, detailed information not provided by client.

On-road Fugitive Dust - Defaults used, detailed information not provided by client.

Architectural Coating - Defaults used, detailed information not provided by client.

Vehicle Trips - Defaults used, detailed information not provided by client.

Energy Use - Defaults used, detailed information not provided by client.

Water And Wastewater - Defaults used, detailed information not provided by client.

Solid Waste - Defaults used, detailed information not provided by client.

Construction Off-road Equipment Mitigation - Model run without mitigation.

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Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	1.50	1.42
tblGrading	AcresOfGrading	1.00	1.42
tblLandUse	LandUseSquareFeet	20,000.00	20,380.00
tblLandUse	LandUseSquareFeet	20,000.00	22,000.00
tblLandUse	LotAcreage	1.25	0.23
tblLandUse	LotAcreage	1.25	0.24
tblLandUse	LotAcreage	0.07	0.04
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Concrete/Industrial Saws
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CO2IntensityFactor	641.35	307
tblTripsAndVMT	WorkerTripNumber	18.00	15.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2022	5-31-2022	0.3561	0.3561
2	6-1-2022	8-31-2022	0.5148	0.5148
3	9-1-2022	11-30-2022	0.5106	0.5106
4	12-1-2022	2-28-2023	0.5659	0.5659
		Highest	0.5659	0.5659

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	0.2228	4.7700e-003	0.4139	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	0.6764	0.6764	6.5000e-004	0.0000	0.6928
Energy	3.1600e-003	0.0270	0.0117	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	64.1684	64.1684	3.7100e-003	1.2200e-003	64.6235
Mobile	0.1281	0.5225	1.4389	4.2600e-003	0.3396	3.5800e-003	0.3432	0.0912	3.3400e-003	0.0945	0.0000	390.3454	390.3454	0.0187	0.0000	390.8138
Waste						0.0000	0.0000		0.0000	0.0000	4.4171	0.0000	4.4171	0.2610	0.0000	10.9431
Water						0.0000	0.0000		0.0000	0.0000	0.9020	3.0139	3.9159	0.0929	2.2500e-003	6.9086
<b>Total</b>	<b>0.3540</b>	<b>0.5543</b>	<b>1.8645</b>	<b>4.4500e-003</b>	<b>0.3396</b>	<b>8.0500e-003</b>	<b>0.3476</b>	<b>0.0912</b>	<b>7.8100e-003</b>	<b>0.0990</b>	<b>5.3191</b>	<b>458.2041</b>	<b>463.5232</b>	<b>0.3771</b>	<b>3.4700e-003</b>	<b>473.9819</b>

Greenfield Mixed Retail and Residential - Monterey County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2228	4.7700e-003	0.4139	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	0.6764	0.6764	6.5000e-004	0.0000	0.6928
Energy	3.1600e-003	0.0270	0.0117	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	64.1684	64.1684	3.7100e-003	1.2200e-003	64.6235
Mobile	0.1281	0.5225	1.4389	4.2600e-003	0.3396	3.5800e-003	0.3432	0.0912	3.3400e-003	0.0945	0.0000	390.3454	390.3454	0.0187	0.0000	390.8138
Waste						0.0000	0.0000		0.0000	0.0000	4.4171	0.0000	4.4171	0.2610	0.0000	10.9431
Water						0.0000	0.0000		0.0000	0.0000	0.9020	3.0139	3.9159	0.0929	2.2500e-003	6.9086
<b>Total</b>	<b>0.3540</b>	<b>0.5543</b>	<b>1.8645</b>	<b>4.4500e-003</b>	<b>0.3396</b>	<b>8.0500e-003</b>	<b>0.3476</b>	<b>0.0912</b>	<b>7.8100e-003</b>	<b>0.0990</b>	<b>5.3191</b>	<b>458.2041</b>	<b>463.5232</b>	<b>0.3771</b>	<b>3.4700e-003</b>	<b>473.9819</b>

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

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/29/2022	3/30/2022	5	2	
2	Grading	Grading	3/31/2022	4/5/2022	5	4	
3	Building Construction	Building Construction	4/6/2022	1/10/2023	5	200	
4	Paving	Paving	1/11/2023	1/24/2023	5	10	
5	Architectural Coating	Architectural Coating	1/25/2023	2/7/2023	5	10	

**Acres of Grading (Site Preparation Phase): 1.42**

**Acres of Grading (Grading Phase): 1.42**

**Acres of Paving: 0.91**

**Residential Indoor: 85,820; Residential Outdoor: 28,607; Non-Residential Indoor: 4,800; Non-Residential Outdoor: 1,600; Striped Parking Area: 2,424 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Pavers	1	6.00	130	0.42
Site Preparation	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	6.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Site Preparation	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Site Preparation	Concrete/Industrial Saws	1	6.00	81	0.73

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	47.00	11.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2700e-003	0.0000	5.2700e-003	2.5600e-003	0.0000	2.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0185	0.0130	3.0000e-005		8.3000e-004	8.3000e-004		7.8000e-004	7.8000e-004	0.0000	2.3487	2.3487	5.8000e-004	0.0000	2.3632
<b>Total</b>	<b>1.8400e-003</b>	<b>0.0185</b>	<b>0.0130</b>	<b>3.0000e-005</b>	<b>5.2700e-003</b>	<b>8.3000e-004</b>	<b>6.1000e-003</b>	<b>2.5600e-003</b>	<b>7.8000e-004</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>2.3487</b>	<b>2.3487</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>2.3632</b>

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**3.2 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	4.5000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058
<b>Total</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1057</b>	<b>0.1057</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1058</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2700e-003	0.0000	5.2700e-003	2.5600e-003	0.0000	2.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0185	0.0130	3.0000e-005		8.3000e-004	8.3000e-004		7.8000e-004	7.8000e-004	0.0000	2.3487	2.3487	5.8000e-004	0.0000	2.3632
<b>Total</b>	<b>1.8400e-003</b>	<b>0.0185</b>	<b>0.0130</b>	<b>3.0000e-005</b>	<b>5.2700e-003</b>	<b>8.3000e-004</b>	<b>6.1000e-003</b>	<b>2.5600e-003</b>	<b>7.8000e-004</b>	<b>3.3400e-003</b>	<b>0.0000</b>	<b>2.3487</b>	<b>2.3487</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>2.3632</b>

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**3.2 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	4.5000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1057	0.1057	0.0000	0.0000	0.1058
<b>Total</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1057</b>	<b>0.1057</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1058</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.7900e-003	0.0000	9.7900e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1700e-003	0.0240	0.0119	3.0000e-005		1.0300e-003	1.0300e-003		9.5000e-004	9.5000e-004	0.0000	2.4763	2.4763	8.0000e-004	0.0000	2.4963
<b>Total</b>	<b>2.1700e-003</b>	<b>0.0240</b>	<b>0.0119</b>	<b>3.0000e-005</b>	<b>9.7900e-003</b>	<b>1.0300e-003</b>	<b>0.0108</b>	<b>5.0500e-003</b>	<b>9.5000e-004</b>	<b>6.0000e-003</b>	<b>0.0000</b>	<b>2.4763</b>	<b>2.4763</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.4963</b>

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**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	4.8000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1128	0.1128	0.0000	0.0000	0.1129
<b>Total</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1128</b>	<b>0.1128</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1129</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.7900e-003	0.0000	9.7900e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1700e-003	0.0240	0.0119	3.0000e-005		1.0300e-003	1.0300e-003		9.5000e-004	9.5000e-004	0.0000	2.4763	2.4763	8.0000e-004	0.0000	2.4963
<b>Total</b>	<b>2.1700e-003</b>	<b>0.0240</b>	<b>0.0119</b>	<b>3.0000e-005</b>	<b>9.7900e-003</b>	<b>1.0300e-003</b>	<b>0.0108</b>	<b>5.0500e-003</b>	<b>9.5000e-004</b>	<b>6.0000e-003</b>	<b>0.0000</b>	<b>2.4763</b>	<b>2.4763</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.4963</b>

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**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	4.8000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1128	0.1128	0.0000	0.0000	0.1129
<b>Total</b>	<b>6.0000e-005</b>	<b>5.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1128</b>	<b>0.1128</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1129</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1591	1.2066	1.2281	2.1300e-003		0.0568	0.0568		0.0549	0.0549	0.0000	175.2217	175.2217	0.0305	0.0000	175.9847
<b>Total</b>	<b>0.1591</b>	<b>1.2066</b>	<b>1.2281</b>	<b>2.1300e-003</b>		<b>0.0568</b>	<b>0.0568</b>		<b>0.0549</b>	<b>0.0549</b>	<b>0.0000</b>	<b>175.2217</b>	<b>175.2217</b>	<b>0.0305</b>	<b>0.0000</b>	<b>175.9847</b>

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**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5900e-003	0.1141	0.0287	3.0000e-004	6.9900e-003	3.2000e-004	7.3100e-003	2.0200e-003	3.1000e-004	2.3300e-003	0.0000	28.3018	28.3018	1.2300e-003	0.0000	28.3326
Worker	0.0170	0.0148	0.1369	3.5000e-004	0.0360	3.0000e-004	0.0363	9.5800e-003	2.8000e-004	9.8600e-003	0.0000	31.9665	31.9665	1.1700e-003	0.0000	31.9959
<b>Total</b>	<b>0.0206</b>	<b>0.1288</b>	<b>0.1656</b>	<b>6.5000e-004</b>	<b>0.0430</b>	<b>6.2000e-004</b>	<b>0.0437</b>	<b>0.0116</b>	<b>5.9000e-004</b>	<b>0.0122</b>	<b>0.0000</b>	<b>60.2683</b>	<b>60.2683</b>	<b>2.4000e-003</b>	<b>0.0000</b>	<b>60.3284</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1591	1.2065	1.2281	2.1300e-003		0.0568	0.0568		0.0549	0.0549	0.0000	175.2215	175.2215	0.0305	0.0000	175.9845
<b>Total</b>	<b>0.1591</b>	<b>1.2065</b>	<b>1.2281</b>	<b>2.1300e-003</b>		<b>0.0568</b>	<b>0.0568</b>		<b>0.0549</b>	<b>0.0549</b>	<b>0.0000</b>	<b>175.2215</b>	<b>175.2215</b>	<b>0.0305</b>	<b>0.0000</b>	<b>175.9845</b>

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**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.5900e-003	0.1141	0.0287	3.0000e-004	6.9900e-003	3.2000e-004	7.3100e-003	2.0200e-003	3.1000e-004	2.3300e-003	0.0000	28.3018	28.3018	1.2300e-003	0.0000	28.3326
Worker	0.0170	0.0148	0.1369	3.5000e-004	0.0360	3.0000e-004	0.0363	9.5800e-003	2.8000e-004	9.8600e-003	0.0000	31.9665	31.9665	1.1700e-003	0.0000	31.9959
<b>Total</b>	<b>0.0206</b>	<b>0.1288</b>	<b>0.1656</b>	<b>6.5000e-004</b>	<b>0.0430</b>	<b>6.2000e-004</b>	<b>0.0437</b>	<b>0.0116</b>	<b>5.9000e-004</b>	<b>0.0122</b>	<b>0.0000</b>	<b>60.2683</b>	<b>60.2683</b>	<b>2.4000e-003</b>	<b>0.0000</b>	<b>60.3284</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3300e-003	0.0410	0.0441	8.0000e-005		1.8000e-003	1.8000e-003		1.7400e-003	1.7400e-003	0.0000	6.3560	6.3560	1.0800e-003	0.0000	6.3830
<b>Total</b>	<b>5.3300e-003</b>	<b>0.0410</b>	<b>0.0441</b>	<b>8.0000e-005</b>		<b>1.8000e-003</b>	<b>1.8000e-003</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>6.3560</b>	<b>6.3560</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>6.3830</b>

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**3.4 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.4100e-003	9.0000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	1.0085	1.0085	4.0000e-005	0.0000	1.0094
Worker	5.7000e-004	4.8000e-004	4.5200e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1165	1.1165	4.0000e-005	0.0000	1.1174
<b>Total</b>	<b>6.7000e-004</b>	<b>3.8900e-003</b>	<b>5.4200e-003</b>	<b>2.0000e-005</b>	<b>1.5600e-003</b>	<b>2.0000e-005</b>	<b>1.5800e-003</b>	<b>4.2000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1249</b>	<b>2.1249</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1268</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3300e-003	0.0410	0.0441	8.0000e-005		1.8000e-003	1.8000e-003		1.7400e-003	1.7400e-003	0.0000	6.3560	6.3560	1.0800e-003	0.0000	6.3829
<b>Total</b>	<b>5.3300e-003</b>	<b>0.0410</b>	<b>0.0441</b>	<b>8.0000e-005</b>		<b>1.8000e-003</b>	<b>1.8000e-003</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>6.3560</b>	<b>6.3560</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>6.3829</b>

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**3.4 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	3.4100e-003	9.0000e-004	1.0000e-005	2.5000e-004	1.0000e-005	2.6000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	1.0085	1.0085	4.0000e-005	0.0000	1.0094
Worker	5.7000e-004	4.8000e-004	4.5200e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1165	1.1165	4.0000e-005	0.0000	1.1174
<b>Total</b>	<b>6.7000e-004</b>	<b>3.8900e-003</b>	<b>5.4200e-003</b>	<b>2.0000e-005</b>	<b>1.5600e-003</b>	<b>2.0000e-005</b>	<b>1.5800e-003</b>	<b>4.2000e-004</b>	<b>1.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.1249</b>	<b>2.1249</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1268</b>

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329
Paving	1.1900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.4100e-003</b>	<b>0.0312</b>	<b>0.0440</b>	<b>7.0000e-005</b>		<b>1.5400e-003</b>	<b>1.5400e-003</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>5.8862</b>	<b>5.8862</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9329</b>

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**3.5 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	1.7800e-003	0.0000	5.2000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4412	0.4412	2.0000e-005	0.0000	0.4415
<b>Total</b>	<b>2.3000e-004</b>	<b>1.9000e-004</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4412</b>	<b>0.4412</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4415</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2200e-003	0.0312	0.0440	7.0000e-005		1.5400e-003	1.5400e-003		1.4200e-003	1.4200e-003	0.0000	5.8862	5.8862	1.8700e-003	0.0000	5.9329
Paving	1.1900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.4100e-003</b>	<b>0.0312</b>	<b>0.0440</b>	<b>7.0000e-005</b>		<b>1.5400e-003</b>	<b>1.5400e-003</b>		<b>1.4200e-003</b>	<b>1.4200e-003</b>	<b>0.0000</b>	<b>5.8862</b>	<b>5.8862</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9329</b>

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**3.5 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	1.7800e-003	0.0000	5.2000e-004	0.0000	5.2000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4412	0.4412	2.0000e-005	0.0000	0.4415
<b>Total</b>	<b>2.3000e-004</b>	<b>1.9000e-004</b>	<b>1.7800e-003</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4412</b>	<b>0.4412</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.4415</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.2968</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.3000e-004	1.2400e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3054	0.3054	1.0000e-005	0.0000	0.3057
<b>Total</b>	<b>1.6000e-004</b>	<b>1.3000e-004</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3054</b>	<b>0.3054</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3057</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2959					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.2968</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.3000e-004	1.2400e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3054	0.3054	1.0000e-005	0.0000	0.3057
<b>Total</b>	<b>1.6000e-004</b>	<b>1.3000e-004</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3054</b>	<b>0.3054</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3057</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1281	0.5225	1.4389	4.2600e-003	0.3396	3.5800e-003	0.3432	0.0912	3.3400e-003	0.0945	0.0000	390.3454	390.3454	0.0187	0.0000	390.8138
Unmitigated	0.1281	0.5225	1.4389	4.2600e-003	0.3396	3.5800e-003	0.3432	0.0912	3.3400e-003	0.0945	0.0000	390.3454	390.3454	0.0187	0.0000	390.8138

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	131.80	143.20	121.40	380,113	380,113
Condo/Townhouse	116.20	113.40	96.80	325,623	325,623
Parking Lot	0.00	0.00	0.00		
Strip Mall	141.82	134.53	65.38	199,990	199,990
Total	389.82	391.13	283.58	905,725	905,725

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 Low Rise	10.80	7.30	7.50	44.00	18.80	37.20	86	11	3
Condo/Townhouse	10.80	7.30	7.50	44.00	18.80	37.20	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Greenfield Mixed Retail and Residential - Monterey County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.548528	0.027912	0.206330	0.127577	0.020437	0.005268	0.019586	0.027922	0.004162	0.002641	0.007642	0.001233	0.000761
Condo/Townhouse	0.548528	0.027912	0.206330	0.127577	0.020437	0.005268	0.019586	0.027922	0.004162	0.002641	0.007642	0.001233	0.000761
Parking Lot	0.548528	0.027912	0.206330	0.127577	0.020437	0.005268	0.019586	0.027922	0.004162	0.002641	0.007642	0.001233	0.000761
Strip Mall	0.548528	0.027912	0.206330	0.127577	0.020437	0.005268	0.019586	0.027922	0.004162	0.002641	0.007642	0.001233	0.000761

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	32.8961	32.8961	3.1100e-003	6.4000e-004	33.1653
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	32.8961	32.8961	3.1100e-003	6.4000e-004	33.1653
NaturalGas Mitigated	3.1600e-003	0.0270	0.0117	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	31.2723	31.2723	6.0000e-004	5.7000e-004	31.4582
NaturalGas Unmitigated	3.1600e-003	0.0270	0.0117	1.7000e-004		2.1800e-003	2.1800e-003		2.1800e-003	2.1800e-003	0.0000	31.2723	31.2723	6.0000e-004	5.7000e-004	31.4582

Greenfield Mixed Retail and Residential - Monterey County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	203977	1.1000e-003	9.4000e-003	4.0000e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	10.8850	10.8850	2.1000e-004	2.0000e-004	10.9497
Condo/Townhouse	374460	2.0200e-003	0.0173	7.3400e-003	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	19.9826	19.9826	3.8000e-004	3.7000e-004	20.1014
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7584	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4047	0.4047	1.0000e-005	1.0000e-005	0.4071
<b>Total</b>		<b>3.1600e-003</b>	<b>0.0270</b>	<b>0.0117</b>	<b>1.7000e-004</b>		<b>2.1900e-003</b>	<b>2.1900e-003</b>		<b>2.1900e-003</b>	<b>2.1900e-003</b>	<b>0.0000</b>	<b>31.2723</b>	<b>31.2723</b>	<b>6.0000e-004</b>	<b>5.8000e-004</b>	<b>31.4582</b>

Greenfield Mixed Retail and Residential - Monterey County, Annual

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	203977	1.1000e-003	9.4000e-003	4.0000e-003	6.0000e-005		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	10.8850	10.8850	2.1000e-004	2.0000e-004	10.9497
Condo/Townhouse	374460	2.0200e-003	0.0173	7.3400e-003	1.1000e-004		1.4000e-003	1.4000e-003		1.4000e-003	1.4000e-003	0.0000	19.9826	19.9826	3.8000e-004	3.7000e-004	20.1014
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	7584	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4047	0.4047	1.0000e-005	1.0000e-005	0.4071
<b>Total</b>		<b>3.1600e-003</b>	<b>0.0270</b>	<b>0.0117</b>	<b>1.7000e-004</b>		<b>2.1900e-003</b>	<b>2.1900e-003</b>		<b>2.1900e-003</b>	<b>2.1900e-003</b>	<b>0.0000</b>	<b>31.2723</b>	<b>31.2723</b>	<b>6.0000e-004</b>	<b>5.8000e-004</b>	<b>31.4582</b>

Greenfield Mixed Retail and Residential - Monterey County, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	86976	12.1117	1.1400e-003	2.4000e-004	12.2108
Condo/Townhouse	100909	14.0518	1.3300e-003	2.7000e-004	14.1668
Parking Lot	14140	1.9690	1.9000e-004	4.0000e-005	1.9852
Strip Mall	34208	4.7636	4.5000e-004	9.0000e-005	4.8026
<b>Total</b>		<b>32.8961</b>	<b>3.1100e-003</b>	<b>6.4000e-004</b>	<b>33.1653</b>

## Greenfield Mixed Retail and Residential - Monterey County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	86976	12.1117	1.1400e-003	2.4000e-004	12.2108
Condo/Townhouse	100909	14.0518	1.3300e-003	2.7000e-004	14.1668
Parking Lot	14140	1.9690	1.9000e-004	4.0000e-005	1.9852
Strip Mall	34208	4.7636	4.5000e-004	9.0000e-005	4.8026
<b>Total</b>		<b>32.8961</b>	<b>3.1100e-003</b>	<b>6.4000e-004</b>	<b>33.1653</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Greenfield Mixed Retail and Residential - Monterey County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2228	4.7700e-003	0.4139	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	0.6764	0.6764	6.5000e-004	0.0000	0.6928
Unmitigated	0.2228	4.7700e-003	0.4139	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	0.6764	0.6764	6.5000e-004	0.0000	0.6928

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	0.0296					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1806					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	0.0126	4.7700e-003	0.4139	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	0.6764	0.6764	6.5000e-004	0.0000	0.6928
<b>Total</b>	<b>0.2228</b>	<b>4.7700e-003</b>	<b>0.4139</b>	<b>2.0000e-005</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>0.6764</b>	<b>0.6764</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>0.6928</b>

Greenfield Mixed Retail and Residential - Monterey County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0296					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1806					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	0.0126	4.7700e-003	0.4139	2.0000e-005		2.2900e-003	2.2900e-003		2.2900e-003	2.2900e-003	0.0000	0.6764	0.6764	6.5000e-004	0.0000	0.6928
<b>Total</b>	<b>0.2228</b>	<b>4.7700e-003</b>	<b>0.4139</b>	<b>2.0000e-005</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>		<b>2.2900e-003</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>0.6764</b>	<b>0.6764</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>0.6928</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Greenfield Mixed Retail and Residential - Monterey County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.9159	0.0929	2.2500e-003	6.9086
Unmitigated	3.9159	0.0929	2.2500e-003	6.9086

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.30308 / 0.821507	1.7957	0.0426	1.0300e-003	3.1673
Condo/Townhouse	1.30308 / 0.821507	1.7957	0.0426	1.0300e-003	3.1673
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.237032 / 0.145278	0.3246	7.7500e-003	1.9000e-004	0.5741
<b>Total</b>		<b>3.9160</b>	<b>0.0929</b>	<b>2.2500e-003</b>	<b>6.9087</b>

Greenfield Mixed Retail and Residential - Monterey County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.30308 / 0.821507	1.7957	0.0426	1.0300e-003	3.1673
Condo/Townhouse	1.30308 / 0.821507	1.7957	0.0426	1.0300e-003	3.1673
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0.237032 / 0.145278	0.3246	7.7500e-003	1.9000e-004	0.5741
<b>Total</b>		<b>3.9160</b>	<b>0.0929</b>	<b>2.2500e-003</b>	<b>6.9087</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Greenfield Mixed Retail and Residential - Monterey County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.4171	0.2610	0.0000	10.9431
Unmitigated	4.4171	0.2610	0.0000	10.9431

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	9.2	1.8675	0.1104	0.0000	4.6267
Condo/Townhouse	9.2	1.8675	0.1104	0.0000	4.6267
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.36	0.6821	0.0403	0.0000	1.6898
<b>Total</b>		<b>4.4171</b>	<b>0.2611</b>	<b>0.0000</b>	<b>10.9431</b>

Greenfield Mixed Retail and Residential - Monterey County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	9.2	1.8675	0.1104	0.0000	4.6267
Condo/Townhouse	9.2	1.8675	0.1104	0.0000	4.6267
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.36	0.6821	0.0403	0.0000	1.6898
<b>Total</b>		<b>4.4171</b>	<b>0.2611</b>	<b>0.0000</b>	<b>10.9431</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Greenfield Mixed Retail and Residential - Monterey County, Annual

Equipment Type	Number
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**11.0 Vegetation**

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