

# Appendix AQ

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Air Quality and Greenhouse Gas CalEEMod Outputs

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Pittsburg Solar RV/Boat Storage Project**

**Contra Costa County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.24	1000sqft	0.03	1,243.00	0
Parking Lot	226.00	Space	10.00	191,920.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	MCE				
<b>CO2 Intensity (lb/MWhr)</b>	289.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - From Project Description. Used square footage of solar canopy to determine the size of the parking lot surface.

Construction Phase - Applicant provided schedule; trenching phase for installation of the well, septic tank, and pipeline

Off-road Equipment - applicant provided

Off-road Equipment - length of construction day 6am-8pm

Off-road Equipment - client provided

Off-road Equipment - applicant provided

Off-road Equipment - applicant provided

Off-road Equipment - applicant provided

Trips and VMT -

Grading - Assuming all 12.5 acres have material import/export at depth of 12 inches

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Architectural Coating - State BAAQMD Regulation 8 Rule 3, compliance with flat coating VOC rate of 50 g/L.

Vehicle Trips - WkDy trip rate from trip generation analysis: 90 trips / (1.243 ksf) / day = 72.41 trips/day

Road Dust -

Area Coating - BAAQMD reg 8 rule 3

Water And Wastewater - 20% reduction for indoor water use; septic tank used

Construction Off-road Equipment Mitigation - In compliance with BAAQMD dust control measures based on General Plan Policy 9-P-30. 5mph mitigation is a project-specific feature

Area Mitigation - baaqmd reg 8 rule 3

Energy Mitigation -

Water Mitigation -

Fleet Mix -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	5
tblConstructionPhase	NumDays	10.00	4.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	300.00	164.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	778.00
tblGrading	MaterialImported	0.00	778.00
tblLandUse	LandUseSquareFeet	1,240.00	1,243.00
tblLandUse	LandUseSquareFeet	90,400.00	191,920.00
tblLandUse	LotAcreage	2.03	10.00
tblOffRoadEquipment	LoadFactor	0.38	0.38

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	195.00	194.00
tblVehicleTrips	ST_TR	2.21	72.41
tblVehicleTrips	SU_TR	0.70	72.41
tblVehicleTrips	WD_TR	9.74	72.41
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	220,389.85	176,312.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

**2.0 Emissions Summary**

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Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1202	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0497	0.0497	1.3000e-004		0.0530
Energy	5.9000e-004	5.4100e-003	4.5400e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4904	6.4904	1.2000e-004	1.2000e-004	6.5290
Mobile	0.2575	0.2337	2.1002	4.4700e-003	0.4516	3.1800e-003	0.4548	0.1203	2.9700e-003	0.1233		458.7605	458.7605	0.0264	0.0196	465.2494
<b>Total</b>	<b>0.3783</b>	<b>0.2393</b>	<b>2.1279</b>	<b>4.5000e-003</b>	<b>0.4516</b>	<b>3.6700e-003</b>	<b>0.4553</b>	<b>0.1203</b>	<b>3.4600e-003</b>	<b>0.1237</b>		<b>465.3006</b>	<b>465.3006</b>	<b>0.0266</b>	<b>0.0197</b>	<b>471.8314</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1202	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0497	0.0497	1.3000e-004		0.0530
Energy	5.9000e-004	5.4100e-003	4.5400e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4904	6.4904	1.2000e-004	1.2000e-004	6.5290
Mobile	0.2575	0.2337	2.1002	4.4700e-003	0.4516	3.1800e-003	0.4548	0.1203	2.9700e-003	0.1233		458.7605	458.7605	0.0264	0.0196	465.2494
<b>Total</b>	<b>0.3783</b>	<b>0.2393</b>	<b>2.1279</b>	<b>4.5000e-003</b>	<b>0.4516</b>	<b>3.6700e-003</b>	<b>0.4553</b>	<b>0.1203</b>	<b>3.4600e-003</b>	<b>0.1237</b>		<b>465.3006</b>	<b>465.3006</b>	<b>0.0266</b>	<b>0.0197</b>	<b>471.8314</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2022	3/6/2022	5	4	
2	Grading	Grading	3/7/2022	4/5/2022	5	22	
3	Paving	Paving	4/8/2022	5/1/2022	5	16	
4	Building Construction	Building Construction	5/1/2022	12/15/2022	5	164	
5	Architectural Coating	Architectural Coating	10/1/2022	11/1/2022	5	22	
6	Trenching	Trenching	3/7/2022	4/5/2022	5	22	

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 66**

**Acres of Paving: 10**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,865; Non-Residential Outdoor: 622; Striped Parking Area: 11,515 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Plate Compactors	1	8.00	8	0.43
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	2	8.00	367	0.48

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	3	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Trenching	Graders	1	8.00	187	0.41

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	194.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT



Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	81.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**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	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.2617	35.5911	22.3641	0.0517		1.4822	1.4822		1.3644	1.3644		4,998.724 3	4,998.724 3	1.6091		5,038.952 2
<b>Total</b>	<b>3.2617</b>	<b>35.5911</b>	<b>22.3641</b>	<b>0.0517</b>	<b>9.2036</b>	<b>1.4822</b>	<b>10.6858</b>	<b>3.6538</b>	<b>1.3644</b>	<b>5.0181</b>		<b>4,998.724 3</b>	<b>4,998.724 3</b>	<b>1.6091</b>		<b>5,038.952 2</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0557	0.0326	0.4837	1.3500e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		137.4551	137.4551	3.7800e-003	3.4600e-003	138.5809
<b>Total</b>	<b>0.0557</b>	<b>0.0326</b>	<b>0.4837</b>	<b>1.3500e-003</b>	<b>0.1479</b>	<b>7.6000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>7.0000e-004</b>	<b>0.0399</b>		<b>137.4551</b>	<b>137.4551</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>138.5809</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	lb/day										lb/day					
Fugitive Dust					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	3.2617	35.5911	22.3641	0.0517		1.4822	1.4822		1.3644	1.3644	0.0000	4,998.7243	4,998.7243	1.6091		5,038.9522
<b>Total</b>	<b>3.2617</b>	<b>35.5911</b>	<b>22.3641</b>	<b>0.0517</b>	<b>4.1416</b>	<b>1.4822</b>	<b>5.6238</b>	<b>1.6442</b>	<b>1.3644</b>	<b>3.0086</b>	<b>0.0000</b>	<b>4,998.7243</b>	<b>4,998.7243</b>	<b>1.6091</b>		<b>5,038.9522</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0557	0.0326	0.4837	1.3500e-003	0.1479	7.6000e-004	0.1486	0.0392	7.0000e-004	0.0399		137.4551	137.4551	3.7800e-003	3.4600e-003	138.5809
<b>Total</b>	<b>0.0557</b>	<b>0.0326</b>	<b>0.4837</b>	<b>1.3500e-003</b>	<b>0.1479</b>	<b>7.6000e-004</b>	<b>0.1486</b>	<b>0.0392</b>	<b>7.0000e-004</b>	<b>0.0399</b>		<b>137.4551</b>	<b>137.4551</b>	<b>3.7800e-003</b>	<b>3.4600e-003</b>	<b>138.5809</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	lb/day										lb/day					
Fugitive Dust					9.2116	0.0000	9.2116	3.6550	0.0000	3.6550			0.0000			0.0000
Off-Road	4.1226	43.8457	32.6436	0.0714		1.8456	1.8456		1.6987	1.6987		6,905.6581	6,905.6581	2.2259		6,961.3045
<b>Total</b>	<b>4.1226</b>	<b>43.8457</b>	<b>32.6436</b>	<b>0.0714</b>	<b>9.2116</b>	<b>1.8456</b>	<b>11.0572</b>	<b>3.6550</b>	<b>1.6987</b>	<b>5.3537</b>		<b>6,905.6581</b>	<b>6,905.6581</b>	<b>2.2259</b>		<b>6,961.3045</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Hauling	0.0414	1.4559	0.3184	5.5800e-003	0.1542	0.0136	0.1678	0.0423	0.0131	0.0553		608.6019	608.6019	0.0201	0.0965	637.8453
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
Worker	0.0866	0.0507	0.7524	2.1000e-003	0.2300	1.1800e-003	0.2312	0.0610	1.0900e-003	0.0621		213.8191	213.8191	5.8800e-003	5.3800e-003	215.5702
<b>Total</b>	<b>0.1280</b>	<b>1.5066</b>	<b>1.0708</b>	<b>7.6800e-003</b>	<b>0.3842</b>	<b>0.0148</b>	<b>0.3990</b>	<b>0.1033</b>	<b>0.0141</b>	<b>0.1174</b>		<b>822.4210</b>	<b>822.4210</b>	<b>0.0260</b>	<b>0.1018</b>	<b>853.4156</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	lb/day										lb/day					
Fugitive Dust					4.1452	0.0000	4.1452	1.6447	0.0000	1.6447			0.0000			0.0000
Off-Road	4.1226	43.8457	32.6436	0.0714		1.8456	1.8456		1.6987	1.6987	0.0000	6,905.6581	6,905.6581	2.2259		6,961.3045
<b>Total</b>	<b>4.1226</b>	<b>43.8457</b>	<b>32.6436</b>	<b>0.0714</b>	<b>4.1452</b>	<b>1.8456</b>	<b>5.9908</b>	<b>1.6447</b>	<b>1.6987</b>	<b>3.3435</b>	<b>0.0000</b>	<b>6,905.6581</b>	<b>6,905.6581</b>	<b>2.2259</b>		<b>6,961.3045</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	lb/day										lb/day					
Hauling	0.0414	1.4559	0.3184	5.5800e-003	0.1542	0.0136	0.1678	0.0423	0.0131	0.0553		608.6019	608.6019	0.0201	0.0965	637.8453
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
Worker	0.0866	0.0507	0.7524	2.1000e-003	0.2300	1.1800e-003	0.2312	0.0610	1.0900e-003	0.0621		213.8191	213.8191	5.8800e-003	5.3800e-003	215.5702
<b>Total</b>	<b>0.1280</b>	<b>1.5066</b>	<b>1.0708</b>	<b>7.6800e-003</b>	<b>0.3842</b>	<b>0.0148</b>	<b>0.3990</b>	<b>0.1033</b>	<b>0.0141</b>	<b>0.1174</b>		<b>822.4210</b>	<b>822.4210</b>	<b>0.0260</b>	<b>0.1018</b>	<b>853.4156</b>

**3.4 Paving - 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	lb/day										lb/day					
Off-Road	1.0487	10.6899	13.2489	0.0198		0.5730	0.5730		0.5272	0.5272		1,913.2767	1,913.2767	0.6188		1,928.7466
Paving	1.6375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.6862</b>	<b>10.6899</b>	<b>13.2489</b>	<b>0.0198</b>		<b>0.5730</b>	<b>0.5730</b>		<b>0.5272</b>	<b>0.5272</b>		<b>1,913.2767</b>	<b>1,913.2767</b>	<b>0.6188</b>		<b>1,928.7466</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Paving - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0464	0.0272	0.4031	1.1300e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		114.5459	114.5459	3.1500e-003	2.8800e-003	115.4841
<b>Total</b>	<b>0.0464</b>	<b>0.0272</b>	<b>0.4031</b>	<b>1.1300e-003</b>	<b>0.1232</b>	<b>6.3000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>5.8000e-004</b>	<b>0.0333</b>		<b>114.5459</b>	<b>114.5459</b>	<b>3.1500e-003</b>	<b>2.8800e-003</b>	<b>115.4841</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	lb/day										lb/day					
Off-Road	1.0487	10.6899	13.2489	0.0198		0.5730	0.5730		0.5272	0.5272	0.0000	1,913.2767	1,913.2767	0.6188		1,928.7465
Paving	1.6375					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>2.6862</b>	<b>10.6899</b>	<b>13.2489</b>	<b>0.0198</b>		<b>0.5730</b>	<b>0.5730</b>		<b>0.5272</b>	<b>0.5272</b>	<b>0.0000</b>	<b>1,913.2767</b>	<b>1,913.2767</b>	<b>0.6188</b>		<b>1,928.7465</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Paving - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0464	0.0272	0.4031	1.1300e-003	0.1232	6.3000e-004	0.1239	0.0327	5.8000e-004	0.0333		114.5459	114.5459	3.1500e-003	2.8800e-003	115.4841
<b>Total</b>	<b>0.0464</b>	<b>0.0272</b>	<b>0.4031</b>	<b>1.1300e-003</b>	<b>0.1232</b>	<b>6.3000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>5.8000e-004</b>	<b>0.0333</b>		<b>114.5459</b>	<b>114.5459</b>	<b>3.1500e-003</b>	<b>2.8800e-003</b>	<b>115.4841</b>

**3.5 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	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
<b>Total</b>	<b>1.8146</b>	<b>16.7670</b>	<b>17.4392</b>	<b>0.0288</b>		<b>0.8645</b>	<b>0.8645</b>		<b>0.8122</b>	<b>0.8122</b>		<b>2,737.1520</b>	<b>2,737.1520</b>	<b>0.6711</b>		<b>2,753.9288</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0756	1.7616	0.5452	6.8800e-003	0.2167	0.0202	0.2369	0.0624	0.0193	0.0817		736.7818	736.7818	0.0162	0.1072	769.1276
Worker	0.2505	0.1466	2.1766	6.0800e-003	0.6654	3.4100e-003	0.6688	0.1765	3.1400e-003	0.1796		618.5480	618.5480	0.0170	0.0156	623.6139
<b>Total</b>	<b>0.3261</b>	<b>1.9082</b>	<b>2.7218</b>	<b>0.0130</b>	<b>0.8821</b>	<b>0.0236</b>	<b>0.9057</b>	<b>0.2389</b>	<b>0.0224</b>	<b>0.2613</b>		<b>1,355.3298</b>	<b>1,355.3298</b>	<b>0.0332</b>	<b>0.1228</b>	<b>1,392.7416</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	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
<b>Total</b>	<b>1.8146</b>	<b>16.7670</b>	<b>17.4392</b>	<b>0.0288</b>		<b>0.8645</b>	<b>0.8645</b>		<b>0.8122</b>	<b>0.8122</b>	<b>0.0000</b>	<b>2,737.1520</b>	<b>2,737.1520</b>	<b>0.6711</b>		<b>2,753.9288</b>



Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0756	1.7616	0.5452	6.8800e-003	0.2167	0.0202	0.2369	0.0624	0.0193	0.0817		736.7818	736.7818	0.0162	0.1072	769.1276
Worker	0.2505	0.1466	2.1766	6.0800e-003	0.6654	3.4100e-003	0.6688	0.1765	3.1400e-003	0.1796		618.5480	618.5480	0.0170	0.0156	623.6139
<b>Total</b>	<b>0.3261</b>	<b>1.9082</b>	<b>2.7218</b>	<b>0.0130</b>	<b>0.8821</b>	<b>0.0236</b>	<b>0.9057</b>	<b>0.2389</b>	<b>0.0224</b>	<b>0.2613</b>		<b>1,355.3298</b>	<b>1,355.3298</b>	<b>0.0332</b>	<b>0.1228</b>	<b>1,392.7416</b>

**3.6 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	3.9010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.1055</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0495	0.0290	0.4299	1.2000e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		122.1823	122.1823	3.3600e-003	3.0800e-003	123.1830
<b>Total</b>	<b>0.0495</b>	<b>0.0290</b>	<b>0.4299</b>	<b>1.2000e-003</b>	<b>0.1314</b>	<b>6.7000e-004</b>	<b>0.1321</b>	<b>0.0349</b>	<b>6.2000e-004</b>	<b>0.0355</b>		<b>122.1823</b>	<b>122.1823</b>	<b>3.3600e-003</b>	<b>3.0800e-003</b>	<b>123.1830</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	lb/day										lb/day					
Archit. Coating	3.9010					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>4.1055</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0495	0.0290	0.4299	1.2000e-003	0.1314	6.7000e-004	0.1321	0.0349	6.2000e-004	0.0355		122.1823	122.1823	3.3600e-003	3.0800e-003	123.1830
<b>Total</b>	<b>0.0495</b>	<b>0.0290</b>	<b>0.4299</b>	<b>1.2000e-003</b>	<b>0.1314</b>	<b>6.7000e-004</b>	<b>0.1321</b>	<b>0.0349</b>	<b>6.2000e-004</b>	<b>0.0355</b>		<b>122.1823</b>	<b>122.1823</b>	<b>3.3600e-003</b>	<b>3.0800e-003</b>	<b>123.1830</b>

**3.7 Trenching - 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	lb/day										lb/day					
Off-Road	0.6171	7.0268	4.9877	0.0118		0.2530	0.2530		0.2328	0.2328		1,141.7610	1,141.7610	0.3693		1,150.9927
<b>Total</b>	<b>0.6171</b>	<b>7.0268</b>	<b>4.9877</b>	<b>0.0118</b>		<b>0.2530</b>	<b>0.2530</b>		<b>0.2328</b>	<b>0.2328</b>		<b>1,141.7610</b>	<b>1,141.7610</b>	<b>0.3693</b>		<b>1,150.9927</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Trenching - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0155	9.0500e-003	0.1344	3.8000e-004	0.0411	2.1000e-004	0.0413	0.0109	1.9000e-004	0.0111		38.1820	38.1820	1.0500e-003	9.6000e-004	38.4947
<b>Total</b>	<b>0.0155</b>	<b>9.0500e-003</b>	<b>0.1344</b>	<b>3.8000e-004</b>	<b>0.0411</b>	<b>2.1000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>1.9000e-004</b>	<b>0.0111</b>		<b>38.1820</b>	<b>38.1820</b>	<b>1.0500e-003</b>	<b>9.6000e-004</b>	<b>38.4947</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	lb/day										lb/day					
Off-Road	0.6171	7.0268	4.9877	0.0118		0.2530	0.2530		0.2328	0.2328	0.0000	1,141.7610	1,141.7610	0.3693		1,150.9927
<b>Total</b>	<b>0.6171</b>	<b>7.0268</b>	<b>4.9877</b>	<b>0.0118</b>		<b>0.2530</b>	<b>0.2530</b>		<b>0.2328</b>	<b>0.2328</b>	<b>0.0000</b>	<b>1,141.7610</b>	<b>1,141.7610</b>	<b>0.3693</b>		<b>1,150.9927</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Trenching - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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
Worker	0.0155	9.0500e-003	0.1344	3.8000e-004	0.0411	2.1000e-004	0.0413	0.0109	1.9000e-004	0.0111		38.1820	38.1820	1.0500e-003	9.6000e-004	38.4947
<b>Total</b>	<b>0.0155</b>	<b>9.0500e-003</b>	<b>0.1344</b>	<b>3.8000e-004</b>	<b>0.0411</b>	<b>2.1000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>1.9000e-004</b>	<b>0.0111</b>		<b>38.1820</b>	<b>38.1820</b>	<b>1.0500e-003</b>	<b>9.6000e-004</b>	<b>38.4947</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.2575	0.2337	2.1002	4.4700e-003	0.4516	3.1800e-003	0.4548	0.1203	2.9700e-003	0.1233			458.7605	458.7605	0.0264	0.0196	465.2494
Unmitigated	0.2575	0.2337	2.1002	4.4700e-003	0.4516	3.1800e-003	0.4548	0.1203	2.9700e-003	0.1233			458.7605	458.7605	0.0264	0.0196	465.2494

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	89.79	89.79	89.79	214,572	214,572
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>89.79</b>	<b>89.79</b>	<b>89.79</b>	<b>214,572</b>	<b>214,572</b>

**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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.558086	0.056127	0.180570	0.129764	0.024304	0.005480	0.007016	0.007028	0.000551	0.000343	0.026017	0.001231	0.003481
Parking Lot	0.558086	0.056127	0.180570	0.129764	0.024304	0.005480	0.007016	0.007028	0.000551	0.000343	0.026017	0.001231	0.003481

**5.0 Energy Detail**

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Percent of Electricity Use Generated with Renewable 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	lb/day										lb/day					
NaturalGas Mitigated	5.9000e-004	5.4100e-003	4.5400e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4904	6.4904	1.2000e-004	1.2000e-004	6.5290
NaturalGas Unmitigated	5.9000e-004	5.4100e-003	4.5400e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4904	6.4904	1.2000e-004	1.2000e-004	6.5290

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	55.1688	5.9000e-004	5.4100e-003	4.5400e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4904	6.4904	1.2000e-004	1.2000e-004	6.5290
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
<b>Total</b>		<b>5.9000e-004</b>	<b>5.4100e-003</b>	<b>4.5400e-003</b>	<b>3.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>6.4904</b>	<b>6.4904</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>6.5290</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.0551688	5.9000e-004	5.4100e-003	4.5400e-003	3.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004		6.4904	6.4904	1.2000e-004	1.2000e-004	6.5290
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
<b>Total</b>		<b>5.9000e-004</b>	<b>5.4100e-003</b>	<b>4.5400e-003</b>	<b>3.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>6.4904</b>	<b>6.4904</b>	<b>1.2000e-004</b>	<b>1.2000e-004</b>	<b>6.5290</b>

**6.0 Area Detail**



Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1202	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0497	0.0497	1.3000e-004		0.0530
Unmitigated	0.1202	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0497	0.0497	1.3000e-004		0.0530

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0497	0.0497	1.3000e-004		0.0530
<b>Total</b>	<b>0.1202</b>	<b>2.1000e-004</b>	<b>0.0232</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0497</b>	<b>0.0497</b>	<b>1.3000e-004</b>		<b>0.0530</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0235					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1500e-003	2.1000e-004	0.0232	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0497	0.0497	1.3000e-004		0.0530
<b>Total</b>	<b>0.1202</b>	<b>2.1000e-004</b>	<b>0.0232</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0497</b>	<b>0.0497</b>	<b>1.3000e-004</b>		<b>0.0530</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Pittsburg Solar RV/Boat Storage Project  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.24	1000sqft	0.03	1,243.00	0
Parking Lot	226.00	Space	10.00	191,920.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2030
<b>Utility Company</b>	MCE				
<b>CO2 Intensity (lb/MWhr)</b>	289.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - From Project Description. Used square footage of solar canopy to determine the size of the parking lot surface.

Construction Phase - Applicant provided schedule; trenching phase for installation of the well, septic tank, and pipeline

Off-road Equipment - applicant provided

Off-road Equipment - length of construction day 6am-8pm

Off-road Equipment - client provided

Off-road Equipment - applicant provided

Off-road Equipment - applicant provided

Off-road Equipment - applicant provided

Trips and VMT -

Grading - Assuming all 12.5 acres have material import/export at depth of 12 inches

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Architectural Coating - State BAAQMD Regulation 8 Rule 3, compliance with flat coating VOC rate of 50 g/L.

Vehicle Trips - WkDy trip rate from trip generation analysis: 90 trips / (1.243 ksf) / day = 72.41 trips/day

Road Dust -

Area Coating - BAAQMD reg 8 rule 3

Water And Wastewater - 20% reduction for indoor water use; septic tank used

Construction Off-road Equipment Mitigation - In compliance with BAAQMD dust control measures based on General Plan Policy 9-P-30. 5mph mitigation is a project-specific feature

Area Mitigation - baaqmd reg 8 rule 3

Energy Mitigation -

Water Mitigation -

Fleet Mix -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	5
tblConstructionPhase	NumDays	10.00	4.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	20.00	16.00
tblConstructionPhase	NumDays	300.00	164.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	778.00
tblGrading	MaterialImported	0.00	778.00
tblLandUse	LandUseSquareFeet	1,240.00	1,243.00
tblLandUse	LandUseSquareFeet	90,400.00	191,920.00
tblLandUse	LotAcreage	2.03	10.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	OffRoadEquipmentType		Excavators

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	195.00	194.00
tblVehicleTrips	ST_TR	2.21	72.41
tblVehicleTrips	SU_TR	0.70	72.41
tblVehicleTrips	WD_TR	9.74	72.41
tblWater	AerobicPercent	87.46	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	220,389.85	176,312.00
tblWater	SepticTankPercent	10.33	100.00
tblWater	SepticTankPercent	10.33	100.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2022	5-31-2022	1.0436	1.0436
2	6-1-2022	8-31-2022	0.6840	0.6840
3	9-1-2022	9-30-2022	0.2230	0.2230
		Highest	1.0436	1.0436

**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	0.0221	2.0000e-005	2.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0600e-003	4.0600e-003	1.0000e-005	0.0000	4.3200e-003
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	12.7171	12.7171	1.3500e-003	1.8000e-004	12.8045
Mobile	0.0307	0.0322	0.2931	6.2000e-004	0.0795	4.2000e-004	0.0799	0.0212	3.9000e-004	0.0216	0.0000	60.6771	60.6771	3.5300e-003	2.6900e-003	61.5679
Waste						0.0000	0.0000		0.0000	0.0000	0.2334	0.0000	0.2334	0.0138	0.0000	0.5783
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.1877	0.1877	0.0401	1.4000e-004	1.2305
<b>Total</b>	<b>0.0529</b>	<b>0.0332</b>	<b>0.2960</b>	<b>6.3000e-004</b>	<b>0.0795</b>	<b>5.1000e-004</b>	<b>0.0800</b>	<b>0.0212</b>	<b>4.8000e-004</b>	<b>0.0217</b>	<b>0.2334</b>	<b>73.5859</b>	<b>73.8193</b>	<b>0.0588</b>	<b>3.0100e-003</b>	<b>76.1855</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0221	2.0000e-005	2.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0600e-003	4.0600e-003	1.0000e-005	0.0000	4.3200e-003
Energy	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.6773	0.6773	0.0000	1.0000e-005	0.6810
Mobile	0.0307	0.0322	0.2931	6.2000e-004	0.0795	4.2000e-004	0.0799	0.0212	3.9000e-004	0.0216	0.0000	60.6771	60.6771	3.5300e-003	2.6900e-003	61.5679
Waste						0.0000	0.0000		0.0000	0.0000	0.2334	0.0000	0.2334	0.0138	0.0000	0.5783
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.1877	0.1877	0.0401	1.4000e-004	1.2305
<b>Total</b>	<b>0.0529</b>	<b>0.0332</b>	<b>0.2960</b>	<b>6.3000e-004</b>	<b>0.0795</b>	<b>5.1000e-004</b>	<b>0.0800</b>	<b>0.0212</b>	<b>4.8000e-004</b>	<b>0.0217</b>	<b>0.2334</b>	<b>61.5461</b>	<b>61.7796</b>	<b>0.0574</b>	<b>2.8400e-003</b>	<b>64.0620</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
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>16.36</b>	<b>16.31</b>	<b>2.33</b>	<b>5.65</b>	<b>15.91</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2022	3/6/2022	5	4	
2	Grading	Grading	3/7/2022	4/5/2022	5	22	
3	Paving	Paving	4/8/2022	5/1/2022	5	16	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	5/1/2022	12/15/2022	5	164
5	Architectural Coating	Architectural Coating	10/1/2022	11/1/2022	5	22
6	Trenching	Trenching	3/7/2022	4/5/2022	5	22

**Acres of Grading (Site Preparation Phase): 12**

**Acres of Grading (Grading Phase): 66**

**Acres of Paving: 10**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,865; Non-Residential Outdoor: 622; Striped Parking Area: 11,515 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Plate Compactors	1	8.00	8	0.43
Site Preparation	Rollers	1	8.00	80	0.38
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	2	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Loaders	1	8.00	203	0.36
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Rollers	3	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching	Excavators	1	8.00	158	0.38
Trenching	Graders	1	8.00	187	0.41

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	11	28.00	0.00	194.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	81.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					0.0184	0.0000	0.0184	7.3100e-003	0.0000	7.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0712	0.0447	1.0000e-004		2.9600e-003	2.9600e-003		2.7300e-003	2.7300e-003	0.0000	9.0695	9.0695	2.9200e-003	0.0000	9.1425
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0712</b>	<b>0.0447</b>	<b>1.0000e-004</b>	<b>0.0184</b>	<b>2.9600e-003</b>	<b>0.0214</b>	<b>7.3100e-003</b>	<b>2.7300e-003</b>	<b>0.0100</b>	<b>0.0000</b>	<b>9.0695</b>	<b>9.0695</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>9.1425</b>

**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	1.0000e-004	7.0000e-005	8.7000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2308	0.2308	1.0000e-005	1.0000e-005	0.2330
<b>Total</b>	<b>1.0000e-004</b>	<b>7.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2308</b>	<b>0.2308</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2330</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Site Preparation - 2022**

**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					8.2800e-003	0.0000	8.2800e-003	3.2900e-003	0.0000	3.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5200e-003	0.0712	0.0447	1.0000e-004		2.9600e-003	2.9600e-003		2.7300e-003	2.7300e-003	0.0000	9.0695	9.0695	2.9200e-003	0.0000	9.1425
<b>Total</b>	<b>6.5200e-003</b>	<b>0.0712</b>	<b>0.0447</b>	<b>1.0000e-004</b>	<b>8.2800e-003</b>	<b>2.9600e-003</b>	<b>0.0112</b>	<b>3.2900e-003</b>	<b>2.7300e-003</b>	<b>6.0200e-003</b>	<b>0.0000</b>	<b>9.0695</b>	<b>9.0695</b>	<b>2.9200e-003</b>	<b>0.0000</b>	<b>9.1425</b>

**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	1.0000e-004	7.0000e-005	8.7000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2308	0.2308	1.0000e-005	1.0000e-005	0.2330
<b>Total</b>	<b>1.0000e-004</b>	<b>7.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2308</b>	<b>0.2308</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2330</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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					0.1013	0.0000	0.1013	0.0402	0.0000	0.0402	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0454	0.4823	0.3591	7.9000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	68.9118	68.9118	0.0222	0.0000	69.4671
<b>Total</b>	<b>0.0454</b>	<b>0.4823</b>	<b>0.3591</b>	<b>7.9000e-004</b>	<b>0.1013</b>	<b>0.0203</b>	<b>0.1216</b>	<b>0.0402</b>	<b>0.0187</b>	<b>0.0589</b>	<b>0.0000</b>	<b>68.9118</b>	<b>68.9118</b>	<b>0.0222</b>	<b>0.0000</b>	<b>69.4671</b>

**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	4.5000e-004	0.0166	3.5300e-003	6.0000e-005	1.6500e-003	1.5000e-004	1.8000e-003	4.5000e-004	1.4000e-004	6.0000e-004	0.0000	6.0741	6.0741	2.0000e-004	9.6000e-004	6.3660
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	8.7000e-004	6.2000e-004	7.4700e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.9743	1.9743	6.0000e-005	6.0000e-005	1.9932
<b>Total</b>	<b>1.3200e-003</b>	<b>0.0172</b>	<b>0.0110</b>	<b>8.0000e-005</b>	<b>4.0900e-003</b>	<b>1.6000e-004</b>	<b>4.2600e-003</b>	<b>1.1000e-003</b>	<b>1.5000e-004</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>8.0484</b>	<b>8.0484</b>	<b>2.6000e-004</b>	<b>1.0200e-003</b>	<b>8.3591</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Grading - 2022**

**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					0.0456	0.0000	0.0456	0.0181	0.0000	0.0181	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0454	0.4823	0.3591	7.9000e-004		0.0203	0.0203		0.0187	0.0187	0.0000	68.9117	68.9117	0.0222	0.0000	69.4670
<b>Total</b>	<b>0.0454</b>	<b>0.4823</b>	<b>0.3591</b>	<b>7.9000e-004</b>	<b>0.0456</b>	<b>0.0203</b>	<b>0.0659</b>	<b>0.0181</b>	<b>0.0187</b>	<b>0.0368</b>	<b>0.0000</b>	<b>68.9117</b>	<b>68.9117</b>	<b>0.0222</b>	<b>0.0000</b>	<b>69.4670</b>

**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	4.5000e-004	0.0166	3.5300e-003	6.0000e-005	1.6500e-003	1.5000e-004	1.8000e-003	4.5000e-004	1.4000e-004	6.0000e-004	0.0000	6.0741	6.0741	2.0000e-004	9.6000e-004	6.3660
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	8.7000e-004	6.2000e-004	7.4700e-003	2.0000e-005	2.4400e-003	1.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	6.6000e-004	0.0000	1.9743	1.9743	6.0000e-005	6.0000e-005	1.9932
<b>Total</b>	<b>1.3200e-003</b>	<b>0.0172</b>	<b>0.0110</b>	<b>8.0000e-005</b>	<b>4.0900e-003</b>	<b>1.6000e-004</b>	<b>4.2600e-003</b>	<b>1.1000e-003</b>	<b>1.5000e-004</b>	<b>1.2600e-003</b>	<b>0.0000</b>	<b>8.0484</b>	<b>8.0484</b>	<b>2.6000e-004</b>	<b>1.0200e-003</b>	<b>8.3591</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Paving - 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	8.3900e-003	0.0855	0.1060	1.6000e-004		4.5800e-003	4.5800e-003		4.2200e-003	4.2200e-003	0.0000	13.8856	13.8856	4.4900e-003	0.0000	13.9978
Paving	0.0131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0215</b>	<b>0.0855</b>	<b>0.1060</b>	<b>1.6000e-004</b>		<b>4.5800e-003</b>	<b>4.5800e-003</b>		<b>4.2200e-003</b>	<b>4.2200e-003</b>	<b>0.0000</b>	<b>13.8856</b>	<b>13.8856</b>	<b>4.4900e-003</b>	<b>0.0000</b>	<b>13.9978</b>

**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	3.4000e-004	2.4000e-004	2.9100e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7692	0.7692	2.0000e-005	2.0000e-005	0.7766
<b>Total</b>	<b>3.4000e-004</b>	<b>2.4000e-004</b>	<b>2.9100e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0000e-005</b>	<b>9.6000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.7692</b>	<b>0.7692</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7766</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Paving - 2022**

**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	8.3900e-003	0.0855	0.1060	1.6000e-004		4.5800e-003	4.5800e-003		4.2200e-003	4.2200e-003	0.0000	13.8856	13.8856	4.4900e-003	0.0000	13.9978
Paving	0.0131					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0215</b>	<b>0.0855</b>	<b>0.1060</b>	<b>1.6000e-004</b>		<b>4.5800e-003</b>	<b>4.5800e-003</b>		<b>4.2200e-003</b>	<b>4.2200e-003</b>	<b>0.0000</b>	<b>13.8856</b>	<b>13.8856</b>	<b>4.4900e-003</b>	<b>0.0000</b>	<b>13.9978</b>

**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	3.4000e-004	2.4000e-004	2.9100e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7692	0.7692	2.0000e-005	2.0000e-005	0.7766
<b>Total</b>	<b>3.4000e-004</b>	<b>2.4000e-004</b>	<b>2.9100e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>1.0000e-005</b>	<b>9.6000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.7692</b>	<b>0.7692</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7766</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 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	0.1488	1.3749	1.4300	2.3600e-003		0.0709	0.0709		0.0666	0.0666	0.0000	203.6144	203.6144	0.0499	0.0000	204.8624
<b>Total</b>	<b>0.1488</b>	<b>1.3749</b>	<b>1.4300</b>	<b>2.3600e-003</b>		<b>0.0709</b>	<b>0.0709</b>		<b>0.0666</b>	<b>0.0666</b>	<b>0.0000</b>	<b>203.6144</b>	<b>203.6144</b>	<b>0.0499</b>	<b>0.0000</b>	<b>204.8624</b>

**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	6.1400e-003	0.1495	0.0454	5.6000e-004	0.0173	1.6600e-003	0.0189	4.9900e-003	1.5800e-003	6.5800e-003	0.0000	54.8168	54.8168	1.2000e-003	7.9800e-003	57.2253
Worker	0.0187	0.0135	0.1612	4.6000e-004	0.0527	2.8000e-004	0.0530	0.0140	2.6000e-004	0.0143	0.0000	42.5765	42.5765	1.3500e-003	1.2500e-003	42.9826
<b>Total</b>	<b>0.0249</b>	<b>0.1630</b>	<b>0.2066</b>	<b>1.0200e-003</b>	<b>0.0700</b>	<b>1.9400e-003</b>	<b>0.0719</b>	<b>0.0190</b>	<b>1.8400e-003</b>	<b>0.0209</b>	<b>0.0000</b>	<b>97.3932</b>	<b>97.3932</b>	<b>2.5500e-003</b>	<b>9.2300e-003</b>	<b>100.2079</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2022**

**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	0.1488	1.3749	1.4300	2.3600e-003		0.0709	0.0709		0.0666	0.0666	0.0000	203.6142	203.6142	0.0499	0.0000	204.8622
<b>Total</b>	<b>0.1488</b>	<b>1.3749</b>	<b>1.4300</b>	<b>2.3600e-003</b>		<b>0.0709</b>	<b>0.0709</b>		<b>0.0666</b>	<b>0.0666</b>	<b>0.0000</b>	<b>203.6142</b>	<b>203.6142</b>	<b>0.0499</b>	<b>0.0000</b>	<b>204.8622</b>

**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	6.1400e-003	0.1495	0.0454	5.6000e-004	0.0173	1.6600e-003	0.0189	4.9900e-003	1.5800e-003	6.5800e-003	0.0000	54.8168	54.8168	1.2000e-003	7.9800e-003	57.2253
Worker	0.0187	0.0135	0.1612	4.6000e-004	0.0527	2.8000e-004	0.0530	0.0140	2.6000e-004	0.0143	0.0000	42.5765	42.5765	1.3500e-003	1.2500e-003	42.9826
<b>Total</b>	<b>0.0249</b>	<b>0.1630</b>	<b>0.2066</b>	<b>1.0200e-003</b>	<b>0.0700</b>	<b>1.9400e-003</b>	<b>0.0719</b>	<b>0.0190</b>	<b>1.8400e-003</b>	<b>0.0209</b>	<b>0.0000</b>	<b>97.3932</b>	<b>97.3932</b>	<b>2.5500e-003</b>	<b>9.2300e-003</b>	<b>100.2079</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 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					
Archit. Coating	0.0429					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132
<b>Total</b>	<b>0.0452</b>	<b>0.0155</b>	<b>0.0200</b>	<b>3.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.8132</b>

**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	5.0000e-004	3.6000e-004	4.2700e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1282	1.1282	4.0000e-005	3.0000e-005	1.1390
<b>Total</b>	<b>5.0000e-004</b>	<b>3.6000e-004</b>	<b>4.2700e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.1282</b>	<b>1.1282</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1390</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Architectural Coating - 2022**

**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	0.0429					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.2500e-003	0.0155	0.0200	3.0000e-005		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	2.8086	2.8086	1.8000e-004	0.0000	2.8132
<b>Total</b>	<b>0.0452</b>	<b>0.0155</b>	<b>0.0200</b>	<b>3.0000e-005</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>		<b>9.0000e-004</b>	<b>9.0000e-004</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>2.8132</b>

**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	5.0000e-004	3.6000e-004	4.2700e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.1282	1.1282	4.0000e-005	3.0000e-005	1.1390
<b>Total</b>	<b>5.0000e-004</b>	<b>3.6000e-004</b>	<b>4.2700e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.1282</b>	<b>1.1282</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1390</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Trenching - 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	6.7900e-003	0.0773	0.0549	1.3000e-004		2.7800e-003	2.7800e-003		2.5600e-003	2.5600e-003	0.0000	11.3937	11.3937	3.6800e-003	0.0000	11.4858
<b>Total</b>	<b>6.7900e-003</b>	<b>0.0773</b>	<b>0.0549</b>	<b>1.3000e-004</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>	<b>0.0000</b>	<b>11.3937</b>	<b>11.3937</b>	<b>3.6800e-003</b>	<b>0.0000</b>	<b>11.4858</b>

**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	1.5000e-004	1.1000e-004	1.3300e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3526	0.3526	1.0000e-005	1.0000e-005	0.3559
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3526</b>	<b>0.3526</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3559</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Trenching - 2022**

**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	6.7900e-003	0.0773	0.0549	1.3000e-004		2.7800e-003	2.7800e-003		2.5600e-003	2.5600e-003	0.0000	11.3937	11.3937	3.6800e-003	0.0000	11.4858
<b>Total</b>	<b>6.7900e-003</b>	<b>0.0773</b>	<b>0.0549</b>	<b>1.3000e-004</b>		<b>2.7800e-003</b>	<b>2.7800e-003</b>		<b>2.5600e-003</b>	<b>2.5600e-003</b>	<b>0.0000</b>	<b>11.3937</b>	<b>11.3937</b>	<b>3.6800e-003</b>	<b>0.0000</b>	<b>11.4858</b>

**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	1.5000e-004	1.1000e-004	1.3300e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3526	0.3526	1.0000e-005	1.0000e-005	0.3559
<b>Total</b>	<b>1.5000e-004</b>	<b>1.1000e-004</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.3526</b>	<b>0.3526</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3559</b>

**4.0 Operational Detail - Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	0.0307	0.0322	0.2931	6.2000e-004	0.0795	4.2000e-004	0.0799	0.0212	3.9000e-004	0.0216	0.0000	60.6771	60.6771	3.5300e-003	2.6900e-003	61.5679
Unmitigated	0.0307	0.0322	0.2931	6.2000e-004	0.0795	4.2000e-004	0.0799	0.0212	3.9000e-004	0.0216	0.0000	60.6771	60.6771	3.5300e-003	2.6900e-003	61.5679

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	89.79	89.79	89.79	214,572	214,572
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>89.79</b>	<b>89.79</b>	<b>89.79</b>	<b>214,572</b>	<b>214,572</b>

**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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.577637	0.055806	0.175331	0.118814	0.021880	0.005573	0.007435	0.007088	0.000537	0.000305	0.024935	0.001797	0.002862



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Parking Lot	0.577637	0.055806	0.175331	0.118814	0.021880	0.005573	0.007435	0.007088	0.000537	0.000305	0.024935	0.001797	0.002862
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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	-0.3972	-0.3972	-0.0001	0.0000	-0.4000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11.6425	11.6425	1.3200e-003	1.6000e-004	11.7235
NaturalGas Mitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0746	1.0746	2.0000e-005	2.0000e-005	1.0810
NaturalGas Unmitigated	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0746	1.0746	2.0000e-005	2.0000e-005	1.0810

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	20136.6	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0746	1.0746	2.0000e-005	2.0000e-005	1.0810
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
<b>Total</b>		<b>1.1000e-004</b>	<b>9.9000e-004</b>	<b>8.3000e-004</b>	<b>1.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.0746</b>	<b>1.0746</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0810</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	20136.6	1.1000e-004	9.9000e-004	8.3000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.0746	1.0746	2.0000e-005	2.0000e-005	1.0810
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
<b>Total</b>		<b>1.1000e-004</b>	<b>9.9000e-004</b>	<b>8.3000e-004</b>	<b>1.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.0746</b>	<b>1.0746</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.0810</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	21342.3	2.8072	3.2000e-004	4.0000e-005	2.8267
Parking Lot	67172	8.8353	1.0100e-003	1.2000e-004	8.8968
<b>Total</b>		<b>11.6425</b>	<b>1.3300e-003</b>	<b>1.6000e-004</b>	<b>11.7235</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	-1510	-0.1986	0.0000	0.0000	-0.2000
Parking Lot	-1510	-0.1986	0.0000	0.0000	-0.2000
<b>Total</b>		<b>-0.3972</b>	<b>0.0000</b>	<b>0.0000</b>	<b>-0.4000</b>

**6.0 Area Detail**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0221	2.0000e-005	2.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0600e-003	4.0600e-003	1.0000e-005	0.0000	4.3200e-003
Unmitigated	0.0221	2.0000e-005	2.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0600e-003	4.0600e-003	1.0000e-005	0.0000	4.3200e-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	4.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0173					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0600e-003	4.0600e-003	1.0000e-005	0.0000	4.3200e-003
<b>Total</b>	<b>0.0221</b>	<b>2.0000e-005</b>	<b>2.0800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0600e-003</b>	<b>4.0600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.3200e-003</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**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	4.6500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0173					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	2.0800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.0600e-003	4.0600e-003	1.0000e-005	0.0000	4.3200e-003
<b>Total</b>	<b>0.0221</b>	<b>2.0000e-005</b>	<b>2.0800e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0600e-003</b>	<b>4.0600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.3200e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1877	0.0401	1.4000e-004	1.2305
Unmitigated	0.1877	0.0401	1.4000e-004	1.2305

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.176312 / 0.135078	0.1877	0.0401	1.4000e-004	1.2305
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1877</b>	<b>0.0401</b>	<b>1.4000e-004</b>	<b>1.2305</b>

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.176312 / 0.135078	0.1877	0.0401	1.4000e-004	1.2305
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.1877</b>	<b>0.0401</b>	<b>1.4000e-004</b>	<b>1.2305</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2334	0.0138	0.0000	0.5783
Unmitigated	0.2334	0.0138	0.0000	0.5783

Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1.15	0.2334	0.0138	0.0000	0.5783
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.2334</b>	<b>0.0138</b>	<b>0.0000</b>	<b>0.5783</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1.15	0.2334	0.0138	0.0000	0.5783
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.2334</b>	<b>0.0138</b>	<b>0.0000</b>	<b>0.5783</b>

**9.0 Operational Offroad**

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Pittsburg Solar RV/Boat Storage Project - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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# Pittsburg Boat/RV Storage

Last Updated: 12/2/2021

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors [1]:

HP: 0 to 100	0.0588	HP: Greater than 100	0.0529
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*Values above are expressed in gallons per horsepower-hour/BSFC.*

## CONSTRUCTION EQUIPMENT

Construction Equipment	#	Hours per Day	Horsepower	Load Factor	Construction Phase	Fuel Used (gallons)
Plate Compactors	1	8	8	0.43	Site Prep	6.47
Rollers	1	8	80	0.38	Site Prep	57.17
Rubber Tired Dozer	1	8	247	0.40	Site Prep	167.12
Scrapers	2	8	367	0.48	Site Prep	595.94
Tractors/Loaders/Backhoes	1	8	97	0.37	Site Prep	67.49
Graders	1	8	187	0.41	Site Prep	129.69
Graders	1	6	187	0.41	Grading	534.96
Excavators	2	8	158	0.38	Grading	1,117.13
Plate Compactors	1	8	8	0.43	Grading	35.58
Rubber Tired Dozer	1	8	247	0.40	Grading	919.15
Rubber Tired Loader	1	8	203	0.36	Grading	679.88
Scrapers	1	8	367	0.48	Grading	1,638.85
Tractors/Loaders/Backhoes	2	8	97	0.37	Grading	742.38
Rollers	1	8	80	0.38	Grading	314.41
Cranes	1	8	231	0.29	Building	4,645.82
Forklifts	3	8	89	0.20	Building	4,117.07
Generator Sets	1	8	84	0.74	Building	4,792.45
Tractors/Loaders/Backhoes	3	8	97	0.37	Building	8,301.21
Welders	1	8	46	0.45	Building	1,595.94
Air Compressor	1	6	78	0.48	Arch Coating	211.21
Rollers	3	8	80	0.38	Paving	943.24
Paving Equipment	1	8	132	0.36	Paving	442.09
Pavers	1	8	130	0.42	Paving	507.95
Tractors/Loaders/Backhoes	1	8	97	0.37	Paving	371.19
Excavators	1	8	158	0.38	Trenching	558.56
Graders	1	8	187	0.41	Trenching	713.28
<b>Total Fuel Used</b>						<b>34,206.23</b>
						<b>(Gallons)</b>

Construction Phase	Days of Operation
Demolition Phase	0
Site Preparation Phase	4
Grading/Trenching Phase	22
Building Construction Phase	164
Paving Phase	16
Architectural Coating Phase	22
Total Days	228

**WORKER TRIPS**

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Demolition	24.1	0	10.8	0.00
Site Prep Phase	24.1	18	10.8	32.27
Grading Phase	24.1	28	10.8	276.05
Building Phase	24.1	81	10.8	5953.00
Paving Phase	24.1	15	10.8	107.55
Architectural Coating Phase	24.1	16	10.8	157.74
Trenching	24.1	5	10.8	49.29
<b>Total</b>				<b>6,526.61</b>

**HAULING AND VENDOR TRIPS**

Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
<b>HAULING TRIPS</b>				
Demolition	7.5	0	20.0	0.00
Site Prep Phase	7.5	0	20.0	0.00
Grading Phase	7.5	0	20.0	0.00
Building Phase	7.5	0	20.0	0.00
Paving Phase	7.5	0	20.0	0.00
Architectural Coating Phase	7.5	0	20.0	0.00
<b>Total</b>				<b>-</b>
<b>VENDOR TRIPS</b>				
Demolition	7.5	0	7.3	0.00
Site Prep Phase	7.5	0	7.3	0.00
Grading Phase	7.5	0	7.3	0.00
Building Phase	7.5	32	7.3	5108.05
Paving Phase	7.5	0	7.3	0.00
Architectural Coating Phase	7.5	0	7.3	0.00
<b>Total</b>				<b>5,108.05</b>

<b>Total Gasoline Consumption (gallons)</b>	<b>6,526.61</b>
<b>Total Diesel Consumption (gallons)</b>	<b>39,314.29</b>

**Sources:**

[1] United States Environmental Protection Agency. 2018. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES2014b* . July 2018. Available at:

<https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockkey=P100UXEN.pdf>.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2018. *National Transportation Statistics 2018* . Available at: <https://www.bts.gov/sites/bts.dot.gov/files/docs/browse-statistical-products-and-data/national-transportation-statistics/223001/ntsntire2018q4.pdf>.