

# Appendix AQ

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Air Quality and Greenhouse Gas CalEEMod Outputs

730 Central Avenue - Bay Area AQMD Air District, Annual

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

**730 Central Avenue  
Bay Area AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	21.00	Dwelling Unit	0.24	19,388.00	60

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<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 - lot and sq footage provided
- Construction Phase - provided by client
- Off-road Equipment - client provided
- Off-road Equipment - client provided
- Off-road Equipment - client provided
- Off-road Equipment - client provided
- Off-road Equipment - client provided
- Off-road Equipment - client provided
- Trips and VMT - 2 grading hauling trips based on amount of fill exported
- Demolition -
- Grading -

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Architectural Coating - BAAQMD reg 8 rule 3

Woodstoves - no woodstoves or fireplaces

Area Coating - baaqmd reg 8 rule 3

Energy Use - 15% title 24 exceedence

Water And Wastewater - no septic or lagoons

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	1.00	54.00
tblConstructionPhase	NumDays	2.00	27.00
tblConstructionPhase	NumDays	100.00	288.00
tblConstructionPhase	NumDays	5.00	80.00
tblConstructionPhase	NumDays	5.00	80.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	70.89	60.26
tblEnergyUse	T24NG	5,226.68	4,442.69
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	3.15	0.00

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tblFireplaces	NumberNoFireplace	0.84	0.00
tblFireplaces	NumberWood	3.57	0.00
tblLandUse	LandUseSquareFeet	21,000.00	19,388.00
tblLandUse	LotAcreage	0.55	0.24
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	0.42	0.00
tblWoodstoves	NumberNoncatalytic	0.42	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

**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**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1841	1.6275	1.8889	3.5400e-003	0.0303	0.0791	0.1094	5.5300e-003	0.0760	0.0815	0.0000	305.8408	305.8408	0.0563	6.5000e-004	307.4413
2023	0.3982	2.3591	2.9436	5.2300e-003	0.0188	0.1090	0.1278	5.0400e-003	0.1057	0.1107	0.0000	446.6828	446.6828	0.0654	9.9000e-004	448.6109
<b>Maximum</b>	<b>0.3982</b>	<b>2.3591</b>	<b>2.9436</b>	<b>5.2300e-003</b>	<b>0.0303</b>	<b>0.1090</b>	<b>0.1278</b>	<b>5.5300e-003</b>	<b>0.1057</b>	<b>0.1107</b>	<b>0.0000</b>	<b>446.6828</b>	<b>446.6828</b>	<b>0.0654</b>	<b>9.9000e-004</b>	<b>448.6109</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1841	1.6275	1.8889	3.5400e-003	0.0303	0.0791	0.1094	5.5300e-003	0.0760	0.0815	0.0000	305.8404	305.8404	0.0563	6.5000e-004	307.4409
2023	0.3982	2.3591	2.9436	5.2300e-003	0.0188	0.1090	0.1278	5.0400e-003	0.1057	0.1107	0.0000	446.6823	446.6823	0.0654	9.9000e-004	448.6104
<b>Maximum</b>	<b>0.3982</b>	<b>2.3591</b>	<b>2.9436</b>	<b>5.2300e-003</b>	<b>0.0303</b>	<b>0.1090</b>	<b>0.1278</b>	<b>5.5300e-003</b>	<b>0.1057</b>	<b>0.1107</b>	<b>0.0000</b>	<b>446.6823</b>	<b>446.6823</b>	<b>0.0654</b>	<b>9.9000e-004</b>	<b>448.6104</b>

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**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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	10-31-2022	1.2732	1.2732
2	11-1-2022	1-31-2023	0.7647	0.7647
3	2-1-2023	4-30-2023	0.7035	0.7035
4	5-1-2023	7-31-2023	1.2695	1.2695
5	8-1-2023	9-30-2023	0.5375	0.5375
		Highest	1.2732	1.2732

**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	0.0926	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Energy	8.6000e-004	7.3500e-003	3.1300e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	16.0061	16.0061	1.3800e-003	3.0000e-004	16.1308
Mobile	0.0475	0.0538	0.4389	8.9000e-004	0.0924	6.7000e-004	0.0931	0.0247	6.2000e-004	0.0253	0.0000	82.8778	82.8778	5.6300e-003	4.0800e-003	84.2340
Waste						0.0000	0.0000		0.0000	0.0000	1.9609	0.0000	1.9609	0.1159	0.0000	4.8580
Water						0.0000	0.0000		0.0000	0.0000	0.4841	0.9643	1.4484	1.8200e-003	1.0700e-003	1.8133
<b>Total</b>	<b>0.1409</b>	<b>0.0629</b>	<b>0.5980</b>	<b>9.5000e-004</b>	<b>0.0924</b>	<b>2.1200e-003</b>	<b>0.0946</b>	<b>0.0247</b>	<b>2.0700e-003</b>	<b>0.0268</b>	<b>2.4450</b>	<b>100.1029</b>	<b>102.5479</b>	<b>0.1250</b>	<b>5.4500e-003</b>	<b>107.2970</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	0.0926	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Energy	8.6000e-004	7.3500e-003	3.1300e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	16.0061	16.0061	1.3800e-003	3.0000e-004	16.1308
Mobile	0.0475	0.0538	0.4389	8.9000e-004	0.0924	6.7000e-004	0.0931	0.0247	6.2000e-004	0.0253	0.0000	82.8778	82.8778	5.6300e-003	4.0800e-003	84.2340
Waste						0.0000	0.0000		0.0000	0.0000	1.9609	0.0000	1.9609	0.1159	0.0000	4.8580
Water						0.0000	0.0000		0.0000	0.0000	0.4841	0.9643	1.4484	1.8200e-003	1.0700e-003	1.8133
<b>Total</b>	<b>0.1409</b>	<b>0.0629</b>	<b>0.5980</b>	<b>9.5000e-004</b>	<b>0.0924</b>	<b>2.1200e-003</b>	<b>0.0946</b>	<b>0.0247</b>	<b>2.0700e-003</b>	<b>0.0268</b>	<b>2.4450</b>	<b>100.1029</b>	<b>102.5479</b>	<b>0.1250</b>	<b>5.4500e-003</b>	<b>107.2970</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</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	Demolition	Demolition	8/1/2022	9/1/2022	6	28	
2	Site Preparation	Site Preparation	8/1/2022	10/1/2022	6	54	
3	Grading	Grading	9/1/2022	10/1/2022	6	27	

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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	10/1/2022	9/1/2023	6	288
5	Paving	Paving	6/1/2023	9/1/2023	6	80
6	Architectural Coating	Architectural Coating	6/1/2023	9/1/2023	6	80

**Acres of Grading (Site Preparation Phase): 27**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 39,261; Residential Outdoor: 13,087; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	221	0.50
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Pressure Washers	1	8.00	13	0.30
Demolition	Pumps	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Trenchers	1	8.00	78	0.50
Site Preparation	Bore/Drill Rigs	1	8.00	221	0.50
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37



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

Grading	Cement and Mortar Mixers	1	8.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Grading	Generator Sets	1	8.00	84	0.74
Grading	Graders	0	6.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pressure Washers	1	8.00	13	0.30
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Pavers	0	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Pressure Washers	1	8.00	13	0.30
Paving	Pumps	1	8.00	84	0.74
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48
Architectural Coating	Cranes	1	8.00	231	0.29

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

Architectural Coating	Forklifts	1	8.00	89	0.20
Architectural Coating	Pressure Washers	1	8.00	13	0.30
Architectural Coating	Pumps	1	8.00	84	0.74

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	20.00	0.00	23.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	15.00	2.00	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	5	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 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					2.5200e-003	0.0000	2.5200e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.2475	0.2924	5.6000e-004		0.0130	0.0130		0.0125	0.0125	0.0000	48.8246	48.8246	9.3200e-003	0.0000	49.0575
<b>Total</b>	<b>0.0280</b>	<b>0.2475</b>	<b>0.2924</b>	<b>5.6000e-004</b>	<b>2.5200e-003</b>	<b>0.0130</b>	<b>0.0156</b>	<b>3.8000e-004</b>	<b>0.0125</b>	<b>0.0129</b>	<b>0.0000</b>	<b>48.8246</b>	<b>48.8246</b>	<b>9.3200e-003</b>	<b>0.0000</b>	<b>49.0575</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 Demolition - 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	5.0000e-005	1.9800e-003	4.2000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7209	0.7209	2.0000e-005	1.1000e-004	0.7555
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	7.7000e-004	5.5000e-004	6.7000e-003	2.0000e-005	2.2100e-003	1.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7794	1.7794	6.0000e-005	5.0000e-005	1.7961
<b>Total</b>	<b>8.2000e-004</b>	<b>2.5300e-003</b>	<b>7.1200e-003</b>	<b>3.0000e-005</b>	<b>2.4000e-003</b>	<b>3.0000e-005</b>	<b>2.4300e-003</b>	<b>6.4000e-004</b>	<b>3.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.5003</b>	<b>2.5003</b>	<b>8.0000e-005</b>	<b>1.6000e-004</b>	<b>2.5516</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					2.5200e-003	0.0000	2.5200e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0280	0.2475	0.2924	5.6000e-004		0.0130	0.0130		0.0125	0.0125	0.0000	48.8245	48.8245	9.3200e-003	0.0000	49.0575
<b>Total</b>	<b>0.0280</b>	<b>0.2475</b>	<b>0.2924</b>	<b>5.6000e-004</b>	<b>2.5200e-003</b>	<b>0.0130</b>	<b>0.0156</b>	<b>3.8000e-004</b>	<b>0.0125</b>	<b>0.0129</b>	<b>0.0000</b>	<b>48.8245</b>	<b>48.8245</b>	<b>9.3200e-003</b>	<b>0.0000</b>	<b>49.0575</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 Demolition - 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	5.0000e-005	1.9800e-003	4.2000e-004	1.0000e-005	1.9000e-004	2.0000e-005	2.1000e-004	5.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.7209	0.7209	2.0000e-005	1.1000e-004	0.7555
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	7.7000e-004	5.5000e-004	6.7000e-003	2.0000e-005	2.2100e-003	1.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7794	1.7794	6.0000e-005	5.0000e-005	1.7961
<b>Total</b>	<b>8.2000e-004</b>	<b>2.5300e-003</b>	<b>7.1200e-003</b>	<b>3.0000e-005</b>	<b>2.4000e-003</b>	<b>3.0000e-005</b>	<b>2.4300e-003</b>	<b>6.4000e-004</b>	<b>3.0000e-005</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>2.5003</b>	<b>2.5003</b>	<b>8.0000e-005</b>	<b>1.6000e-004</b>	<b>2.5516</b>

**3.3 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					0.0143	0.0000	0.0143	1.5500e-003	0.0000	1.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0533	0.5248	0.5397	1.1300e-003		0.0236	0.0236		0.0223	0.0223	0.0000	98.4919	98.4919	0.0237	0.0000	99.0854
<b>Total</b>	<b>0.0533</b>	<b>0.5248</b>	<b>0.5397</b>	<b>1.1300e-003</b>	<b>0.0143</b>	<b>0.0236</b>	<b>0.0379</b>	<b>1.5500e-003</b>	<b>0.0223</b>	<b>0.0239</b>	<b>0.0000</b>	<b>98.4919</b>	<b>98.4919</b>	<b>0.0237</b>	<b>0.0000</b>	<b>99.0854</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 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	1.4800e-003	1.0700e-003	0.0129	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.4318	3.4318	1.1000e-004	1.0000e-004	3.4639
<b>Total</b>	<b>1.4800e-003</b>	<b>1.0700e-003</b>	<b>0.0129</b>	<b>4.0000e-005</b>	<b>4.2700e-003</b>	<b>2.0000e-005</b>	<b>4.2900e-003</b>	<b>1.1400e-003</b>	<b>2.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>3.4318</b>	<b>3.4318</b>	<b>1.1000e-004</b>	<b>1.0000e-004</b>	<b>3.4639</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					0.0143	0.0000	0.0143	1.5500e-003	0.0000	1.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0533	0.5248	0.5397	1.1300e-003		0.0236	0.0236		0.0223	0.0223	0.0000	98.4918	98.4918	0.0237	0.0000	99.0853
<b>Total</b>	<b>0.0533</b>	<b>0.5248</b>	<b>0.5397</b>	<b>1.1300e-003</b>	<b>0.0143</b>	<b>0.0236</b>	<b>0.0379</b>	<b>1.5500e-003</b>	<b>0.0223</b>	<b>0.0239</b>	<b>0.0000</b>	<b>98.4918</b>	<b>98.4918</b>	<b>0.0237</b>	<b>0.0000</b>	<b>99.0853</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 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	1.4800e-003	1.0700e-003	0.0129	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.4318	3.4318	1.1000e-004	1.0000e-004	3.4639
<b>Total</b>	<b>1.4800e-003</b>	<b>1.0700e-003</b>	<b>0.0129</b>	<b>4.0000e-005</b>	<b>4.2700e-003</b>	<b>2.0000e-005</b>	<b>4.2900e-003</b>	<b>1.1400e-003</b>	<b>2.0000e-005</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>3.4318</b>	<b>3.4318</b>	<b>1.1000e-004</b>	<b>1.0000e-004</b>	<b>3.4639</b>

**3.4 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1494	0.1988	3.2000e-004		7.7700e-003	7.7700e-003		7.4900e-003	7.4900e-003	0.0000	27.9711	27.9711	4.8500e-003	0.0000	28.0925
<b>Total</b>	<b>0.0170</b>	<b>0.1494</b>	<b>0.1988</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>7.7700e-003</b>	<b>7.7700e-003</b>	<b>0.0000</b>	<b>7.4900e-003</b>	<b>7.4900e-003</b>	<b>0.0000</b>	<b>27.9711</b>	<b>27.9711</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>28.0925</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 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	5.6000e-004	4.0000e-004	4.8400e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.2869	1.2869	4.0000e-005	4.0000e-005	1.2990
<b>Total</b>	<b>5.6000e-004</b>	<b>4.0000e-004</b>	<b>4.8400e-003</b>	<b>1.0000e-005</b>	<b>1.6000e-003</b>	<b>1.0000e-005</b>	<b>1.6100e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.2869</b>	<b>1.2869</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.2990</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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0170	0.1494	0.1988	3.2000e-004		7.7700e-003	7.7700e-003		7.4900e-003	7.4900e-003	0.0000	27.9711	27.9711	4.8500e-003	0.0000	28.0925
<b>Total</b>	<b>0.0170</b>	<b>0.1494</b>	<b>0.1988</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>7.7700e-003</b>	<b>7.7700e-003</b>	<b>0.0000</b>	<b>7.4900e-003</b>	<b>7.4900e-003</b>	<b>0.0000</b>	<b>27.9711</b>	<b>27.9711</b>	<b>4.8500e-003</b>	<b>0.0000</b>	<b>28.0925</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 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	5.6000e-004	4.0000e-004	4.8400e-003	1.0000e-005	1.6000e-003	1.0000e-005	1.6100e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.2869	1.2869	4.0000e-005	4.0000e-005	1.2990
<b>Total</b>	<b>5.6000e-004</b>	<b>4.0000e-004</b>	<b>4.8400e-003</b>	<b>1.0000e-005</b>	<b>1.6000e-003</b>	<b>1.0000e-005</b>	<b>1.6100e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.2869</b>	<b>1.2869</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.2990</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	tons/yr										MT/yr					
Off-Road	0.0812	0.6962	0.8177	1.3900e-003		0.0345	0.0345		0.0335	0.0335	0.0000	117.9417	117.9417	0.0180	0.0000	118.3909
<b>Total</b>	<b>0.0812</b>	<b>0.6962</b>	<b>0.8177</b>	<b>1.3900e-003</b>		<b>0.0345</b>	<b>0.0345</b>		<b>0.0335</b>	<b>0.0335</b>	<b>0.0000</b>	<b>117.9417</b>	<b>117.9417</b>	<b>0.0180</b>	<b>0.0000</b>	<b>118.3909</b>



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**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	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	1.7000e-004	4.4100e-003	1.2900e-003	2.0000e-005	5.2000e-004	5.0000e-005	5.6000e-004	1.5000e-004	4.0000e-005	1.9000e-004	0.0000	1.6270	1.6270	4.0000e-005	2.4000e-004	1.6998
Worker	1.6300e-003	1.1700e-003	0.0142	4.0000e-005	4.6800e-003	3.0000e-005	4.7100e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.7654	3.7654	1.2000e-004	1.1000e-004	3.8007
<b>Total</b>	<b>1.8000e-003</b>	<b>5.5800e-003</b>	<b>0.0155</b>	<b>6.0000e-005</b>	<b>5.2000e-003</b>	<b>8.0000e-005</b>	<b>5.2700e-003</b>	<b>1.4000e-003</b>	<b>6.0000e-005</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>5.3925</b>	<b>5.3925</b>	<b>1.6000e-004</b>	<b>3.5000e-004</b>	<b>5.5005</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	0.0812	0.6962	0.8177	1.3900e-003		0.0345	0.0345		0.0335	0.0335	0.0000	117.9416	117.9416	0.0180	0.0000	118.3907
<b>Total</b>	<b>0.0812</b>	<b>0.6962</b>	<b>0.8177</b>	<b>1.3900e-003</b>		<b>0.0345</b>	<b>0.0345</b>		<b>0.0335</b>	<b>0.0335</b>	<b>0.0000</b>	<b>117.9416</b>	<b>117.9416</b>	<b>0.0180</b>	<b>0.0000</b>	<b>118.3907</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 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	1.7000e-004	4.4100e-003	1.2900e-003	2.0000e-005	5.2000e-004	5.0000e-005	5.6000e-004	1.5000e-004	4.0000e-005	1.9000e-004	0.0000	1.6270	1.6270	4.0000e-005	2.4000e-004	1.6998
Worker	1.6300e-003	1.1700e-003	0.0142	4.0000e-005	4.6800e-003	3.0000e-005	4.7100e-003	1.2500e-003	2.0000e-005	1.2700e-003	0.0000	3.7654	3.7654	1.2000e-004	1.1000e-004	3.8007
<b>Total</b>	<b>1.8000e-003</b>	<b>5.5800e-003</b>	<b>0.0155</b>	<b>6.0000e-005</b>	<b>5.2000e-003</b>	<b>8.0000e-005</b>	<b>5.2700e-003</b>	<b>1.4000e-003</b>	<b>6.0000e-005</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>5.3925</b>	<b>5.3925</b>	<b>1.6000e-004</b>	<b>3.5000e-004</b>	<b>5.5005</b>

**3.5 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	0.1999	1.7109	2.1538	3.6800e-003		0.0793	0.0793		0.0769	0.0769	0.0000	312.0866	312.0866	0.0465	0.0000	313.2496
<b>Total</b>	<b>0.1999</b>	<b>1.7109</b>	<b>2.1538</b>	<b>3.6800e-003</b>		<b>0.0793</b>	<b>0.0793</b>		<b>0.0769</b>	<b>0.0769</b>	<b>0.0000</b>	<b>312.0866</b>	<b>312.0866</b>	<b>0.0465</b>	<b>0.0000</b>	<b>313.2496</b>

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**3.5 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	2.2000e-004	9.2900e-003	2.9100e-003	4.0000e-005	1.3700e-003	5.0000e-005	1.4300e-003	4.0000e-004	5.0000e-005	4.5000e-004	0.0000	4.1256	4.1256	8.0000e-005	6.1000e-004	4.3095
Worker	4.0100e-003	2.7500e-003	0.0348	1.0000e-004	0.0124	6.0000e-005	0.0125	3.3000e-003	6.0000e-005	3.3500e-003	0.0000	9.7075	9.7075	2.8000e-004	2.7000e-004	9.7939
<b>Total</b>	<b>4.2300e-003</b>	<b>0.0120</b>	<b>0.0377</b>	<b>1.4000e-004</b>	<b>0.0138</b>	<b>1.1000e-004</b>	<b>0.0139</b>	<b>3.7000e-003</b>	<b>1.1000e-004</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>13.8331</b>	<b>13.8331</b>	<b>3.6000e-004</b>	<b>8.8000e-004</b>	<b>14.1034</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	0.1999	1.7109	2.1538	3.6800e-003		0.0793	0.0793		0.0769	0.0769	0.0000	312.0862	312.0862	0.0465	0.0000	313.2492
<b>Total</b>	<b>0.1999</b>	<b>1.7109</b>	<b>2.1538</b>	<b>3.6800e-003</b>		<b>0.0793</b>	<b>0.0793</b>		<b>0.0769</b>	<b>0.0769</b>	<b>0.0000</b>	<b>312.0862</b>	<b>312.0862</b>	<b>0.0465</b>	<b>0.0000</b>	<b>313.2492</b>

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**3.5 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	2.2000e-004	9.2900e-003	2.9100e-003	4.0000e-005	1.3700e-003	5.0000e-005	1.4300e-003	4.0000e-004	5.0000e-005	4.5000e-004	0.0000	4.1256	4.1256	8.0000e-005	6.1000e-004	4.3095
Worker	4.0100e-003	2.7500e-003	0.0348	1.0000e-004	0.0124	6.0000e-005	0.0125	3.3000e-003	6.0000e-005	3.3500e-003	0.0000	9.7075	9.7075	2.8000e-004	2.7000e-004	9.7939
<b>Total</b>	<b>4.2300e-003</b>	<b>0.0120</b>	<b>0.0377</b>	<b>1.4000e-004</b>	<b>0.0138</b>	<b>1.1000e-004</b>	<b>0.0139</b>	<b>3.7000e-003</b>	<b>1.1000e-004</b>	<b>3.8000e-003</b>	<b>0.0000</b>	<b>13.8331</b>	<b>13.8331</b>	<b>3.6000e-004</b>	<b>8.8000e-004</b>	<b>14.1034</b>

**3.6 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	0.0368	0.3006	0.4165	7.2000e-004		0.0146	0.0146		0.0143	0.0143	0.0000	61.2221	61.2221	7.0000e-003	0.0000	61.3972
Paving	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>0.0368</b>	<b>0.3006</b>	<b>0.4165</b>	<b>7.2000e-004</b>		<b>0.0146</b>	<b>0.0146</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>61.2221</b>	<b>61.2221</b>	<b>7.0000e-003</b>	<b>0.0000</b>	<b>61.3972</b>

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**3.6 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	1.3300e-003	9.1000e-004	0.0115	3.0000e-005	4.1100e-003	2.0000e-005	4.1300e-003	1.0900e-003	2.0000e-005	1.1100e-003	0.0000	3.2204	3.2204	9.0000e-005	9.0000e-005	3.2490
<b>Total</b>	<b>1.3300e-003</b>	<b>9.1000e-004</b>	<b>0.0115</b>	<b>3.0000e-005</b>	<b>4.1100e-003</b>	<b>2.0000e-005</b>	<b>4.1300e-003</b>	<b>1.0900e-003</b>	<b>2.0000e-005</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>3.2204</b>	<b>3.2204</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>3.2490</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	0.0368	0.3006	0.4165	7.2000e-004		0.0146	0.0146		0.0143	0.0143	0.0000	61.2220	61.2220	7.0000e-003	0.0000	61.3971
Paving	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>0.0368</b>	<b>0.3006</b>	<b>0.4165</b>	<b>7.2000e-004</b>		<b>0.0146</b>	<b>0.0146</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>61.2220</b>	<b>61.2220</b>	<b>7.0000e-003</b>	<b>0.0000</b>	<b>61.3971</b>

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**3.6 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	1.3300e-003	9.1000e-004	0.0115	3.0000e-005	4.1100e-003	2.0000e-005	4.1300e-003	1.0900e-003	2.0000e-005	1.1100e-003	0.0000	3.2204	3.2204	9.0000e-005	9.0000e-005	3.2490
<b>Total</b>	<b>1.3300e-003</b>	<b>9.1000e-004</b>	<b>0.0115</b>	<b>3.0000e-005</b>	<b>4.1100e-003</b>	<b>2.0000e-005</b>	<b>4.1300e-003</b>	<b>1.0900e-003</b>	<b>2.0000e-005</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>3.2204</b>	<b>3.2204</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>3.2490</b>

**3.7 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	0.1213					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0344	0.3344	0.3215	6.4000e-004		0.0150	0.0150		0.0143	0.0143	0.0000	55.5776	55.5776	0.0114	0.0000	55.8620
<b>Total</b>	<b>0.1557</b>	<b>0.3344</b>	<b>0.3215</b>	<b>6.4000e-004</b>		<b>0.0150</b>	<b>0.0150</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>55.5776</b>	<b>55.5776</b>	<b>0.0114</b>	<b>0.0000</b>	<b>55.8620</b>

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**3.7 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	3.1000e-004	2.1000e-004	2.6600e-003	1.0000e-005	9.5000e-004	0.0000	9.5000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7432	0.7432	2.0000e-005	2.0000e-005	0.7498
<b>Total</b>	<b>3.1000e-004</b>	<b>2.1000e-004</b>	<b>2.6600e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.7432</b>	<b>0.7432</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7498</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	0.1213					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0344	0.3344	0.3215	6.4000e-004		0.0150	0.0150		0.0143	0.0143	0.0000	55.5775	55.5775	0.0114	0.0000	55.8619
<b>Total</b>	<b>0.1557</b>	<b>0.3344</b>	<b>0.3215</b>	<b>6.4000e-004</b>		<b>0.0150</b>	<b>0.0150</b>		<b>0.0143</b>	<b>0.0143</b>	<b>0.0000</b>	<b>55.5775</b>	<b>55.5775</b>	<b>0.0114</b>	<b>0.0000</b>	<b>55.8619</b>

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**3.7 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	3.1000e-004	2.1000e-004	2.6600e-003	1.0000e-005	9.5000e-004	0.0000	9.5000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.7432	0.7432	2.0000e-005	2.0000e-005	0.7498
<b>Total</b>	<b>3.1000e-004</b>	<b>2.1000e-004</b>	<b>2.6600e-003</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>0.7432</b>	<b>0.7432</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.7498</b>



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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0475	0.0538	0.4389	8.9000e-004	0.0924	6.7000e-004	0.0931	0.0247	6.2000e-004	0.0253	0.0000	82.8778	82.8778	5.6300e-003	4.0800e-003	84.2340
Unmitigated	0.0475	0.0538	0.4389	8.9000e-004	0.0924	6.7000e-004	0.0931	0.0247	6.2000e-004	0.0253	0.0000	82.8778	82.8778	5.6300e-003	4.0800e-003	84.2340

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	114.24	103.11	85.89	250,823	250,823
Total	114.24	103.11	85.89	250,823	250,823

**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 Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7.4918	7.4918	1.2100e-003	1.5000e-004	7.5659
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7.4918	7.4918	1.2100e-003	1.5000e-004	7.5659
NaturalGas Mitigated	8.6000e-004	7.3500e-003	3.1300e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.5143	8.5143	1.6000e-004	1.6000e-004	8.5649
NaturalGas Unmitigated	8.6000e-004	7.3500e-003	3.1300e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.5143	8.5143	1.6000e-004	1.6000e-004	8.5649

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**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					
Apartments Mid Rise	159551	8.6000e-004	7.3500e-003	3.1300e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.5143	8.5143	1.6000e-004	1.6000e-004	8.5649
<b>Total</b>		<b>8.6000e-004</b>	<b>7.3500e-003</b>	<b>3.1300e-003</b>	<b>5.0000e-005</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>8.5143</b>	<b>8.5143</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>8.5649</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					
Apartments Mid Rise	159551	8.6000e-004	7.3500e-003	3.1300e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.5143	8.5143	1.6000e-004	1.6000e-004	8.5649
<b>Total</b>		<b>8.6000e-004</b>	<b>7.3500e-003</b>	<b>3.1300e-003</b>	<b>5.0000e-005</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>		<b>5.9000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>8.5143</b>	<b>8.5143</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>8.5649</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			
Apartments Mid Rise	80971.8	7.4918	1.2100e-003	1.5000e-004	7.5659
<b>Total</b>		<b>7.4918</b>	<b>1.2100e-003</b>	<b>1.5000e-004</b>	<b>7.5659</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	80971.8	7.4918	1.2100e-003	1.5000e-004	7.5659
<b>Total</b>		<b>7.4918</b>	<b>1.2100e-003</b>	<b>1.5000e-004</b>	<b>7.5659</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0926	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
Unmitigated	0.0926	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608

**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	0.0121					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0757					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	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
<b>Total</b>	<b>0.0926</b>	<b>1.8000e-003</b>	<b>0.1560</b>	<b>1.0000e-005</b>		<b>8.6000e-004</b>	<b>8.6000e-004</b>		<b>8.6000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>0.2547</b>	<b>0.2547</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.2608</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0121					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0757					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	4.7000e-003	1.8000e-003	0.1560	1.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	0.2547	0.2547	2.4000e-004	0.0000	0.2608
<b>Total</b>	<b>0.0926</b>	<b>1.8000e-003</b>	<b>0.1560</b>	<b>1.0000e-005</b>		<b>8.6000e-004</b>	<b>8.6000e-004</b>		<b>8.6000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>0.2547</b>	<b>0.2547</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.2608</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

730 Central Avenue - Bay Area AQMD Air District, 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	1.4484	1.8200e-003	1.0700e-003	1.8133
Unmitigated	1.4484	1.8200e-003	1.0700e-003	1.8133

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.36823 / 0.862583	1.4484	1.8200e-003	1.0700e-003	1.8133
<b>Total</b>		<b>1.4484</b>	<b>1.8200e-003</b>	<b>1.0700e-003</b>	<b>1.8133</b>

730 Central Avenue - Bay Area AQMD Air District, 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			
Apartments Mid Rise	1.36823 / 0.862583	1.4484	1.8200e-003	1.0700e-003	1.8133
<b>Total</b>		<b>1.4484</b>	<b>1.8200e-003</b>	<b>1.0700e-003</b>	<b>1.8133</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.9609	0.1159	0.0000	4.8580
Unmitigated	1.9609	0.1159	0.0000	4.8580



730 Central Avenue - Bay Area AQMD Air District, 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			
Apartments Mid Rise	9.66	1.9609	0.1159	0.0000	4.8580
<b>Total</b>		<b>1.9609</b>	<b>0.1159</b>	<b>0.0000</b>	<b>4.8580</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	9.66	1.9609	0.1159	0.0000	4.8580
<b>Total</b>		<b>1.9609</b>	<b>0.1159</b>	<b>0.0000</b>	<b>4.8580</b>

**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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730 Central Avenue - Bay Area AQMD Air District, Annual

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

**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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730 Central Avenue - Bay Area AQMD Air District, Summer

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

**730 Central Avenue  
Bay Area AQMD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	21.00	Dwelling Unit	0.24	19,388.00	60

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<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 - lot and sq footage provided  
 Construction Phase - provided by client  
 Off-road Equipment - client provided  
 Off-road Equipment - client provided  
 Off-road Equipment - client provided  
 Off-road Equipment - client provided  
 Off-road Equipment - client provided  
 Off-road Equipment - client provided  
 Trips and VMT - 2 grading hauling trips based on amount of fill exported  
 Demolition -  
 Grading -

730 Central Avenue - Bay Area AQMD Air District, Summer

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

Architectural Coating - BAAQMD reg 8 rule 3

Woodstoves - no woodstoves or fireplaces

Area Coating - baaqmd reg 8 rule 3

Energy Use - 15% title 24 exceedence

Water And Wastewater - no septic or lagoons

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblConstructionPhase	NumDays	10.00	28.00
tblConstructionPhase	NumDays	1.00	54.00
tblConstructionPhase	NumDays	2.00	27.00
tblConstructionPhase	NumDays	100.00	288.00
tblConstructionPhase	NumDays	5.00	80.00
tblConstructionPhase	NumDays	5.00	80.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	T24E	70.89	60.26
tblEnergyUse	T24NG	5,226.68	4,442.69
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	3.15	0.00

730 Central Avenue - Bay Area AQMD Air District, Summer

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

tblFireplaces	NumberNoFireplace	0.84	0.00
tblFireplaces	NumberWood	3.57	0.00
tblLandUse	LandUseSquareFeet	21,000.00	19,388.00
tblLandUse	LotAcreage	0.55	0.24
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	0.42	0.00
tblWoodstoves	NumberNoncatalytic	0.42	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

**2.0 Emissions Summary**

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730 Central Avenue - Bay Area AQMD Air District, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.4366	48.4161	57.0510	0.1107	1.1765	2.3841	3.5606	0.2083	2.2794	2.4877	0.0000	10,617.44 59	10,617.44 59	2.1122	0.0193	10,675.98 70
2023	6.8097	32.3815	39.8282	0.0719	0.2682	1.5005	1.7687	0.0715	1.4531	1.5245	0.0000	6,780.197 6	6,780.197 6	1.0038	0.0118	6,808.805 9
<b>Maximum</b>	<b>6.8097</b>	<b>48.4161</b>	<b>57.0510</b>	<b>0.1107</b>	<b>1.1765</b>	<b>2.3841</b>	<b>3.5606</b>	<b>0.2083</b>	<b>2.2794</b>	<b>2.4877</b>	<b>0.0000</b>	<b>10,617.44 59</b>	<b>10,617.44 59</b>	<b>2.1122</b>	<b>0.0193</b>	<b>10,675.98 70</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	5.4366	48.4161	57.0510	0.1107	1.1765	2.3841	3.5606	0.2083	2.2794	2.4877	0.0000	10,617.44 58	10,617.44 58	2.1122	0.0193	10,675.98 70
2023	6.8097	32.3815	39.8282	0.0719	0.2682	1.5005	1.7687	0.0715	1.4531	1.5245	0.0000	6,780.197 6	6,780.197 6	1.0038	0.0118	6,808.805 9
<b>Maximum</b>	<b>6.8097</b>	<b>48.4161</b>	<b>57.0510</b>	<b>0.1107</b>	<b>1.1765</b>	<b>2.3841</b>	<b>3.5606</b>	<b>0.2083</b>	<b>2.2794</b>	<b>2.4877</b>	<b>0.0000</b>	<b>10,617.44 58</b>	<b>10,617.44 58</b>	<b>2.1122</b>	<b>0.0193</b>	<b>10,675.98 70</b>



730 Central Avenue - Bay Area AQMD Air District, 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	0.5336	0.0200	1.7329	9.0000e-005		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	3.1196	3.1196	3.0000e-003	0.0000	3.1946
Energy	4.7100e-003	0.0403	0.0171	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.4268	51.4268	9.9000e-004	9.4000e-004	51.7324
Mobile	0.3052	0.2855	2.5317	5.4200e-003	0.5553	3.8600e-003	0.5592	0.1479	3.5900e-003	0.1515		556.6953	556.6953	0.0335	0.0246	564.8694
<b>Total</b>	<b>0.8435</b>	<b>0.3458</b>	<b>4.2818</b>	<b>5.7700e-003</b>	<b>0.5553</b>	<b>0.0167</b>	<b>0.5720</b>	<b>0.1479</b>	<b>0.0164</b>	<b>0.1643</b>	<b>0.0000</b>	<b>611.2417</b>	<b>611.2417</b>	<b>0.0375</b>	<b>0.0256</b>	<b>619.7964</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	0.5336	0.0200	1.7329	9.0000e-005		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	3.1196	3.1196	3.0000e-003	0.0000	3.1946
Energy	4.7100e-003	0.0403	0.0171	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.4268	51.4268	9.9000e-004	9.4000e-004	51.7324
Mobile	0.3052	0.2855	2.5317	5.4200e-003	0.5553	3.8600e-003	0.5592	0.1479	3.5900e-003	0.1515		556.6953	556.6953	0.0335	0.0246	564.8694
<b>Total</b>	<b>0.8435</b>	<b>0.3458</b>	<b>4.2818</b>	<b>5.7700e-003</b>	<b>0.5553</b>	<b>0.0167</b>	<b>0.5720</b>	<b>0.1479</b>	<b>0.0164</b>	<b>0.1643</b>	<b>0.0000</b>	<b>611.2417</b>	<b>611.2417</b>	<b>0.0375</b>	<b>0.0256</b>	<b>619.7964</b>



730 Central Avenue - Bay Area AQMD Air District, 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	Demolition	Demolition	8/1/2022	9/1/2022	6	28	
2	Site Preparation	Site Preparation	8/1/2022	10/1/2022	6	54	
3	Grading	Grading	9/1/2022	10/1/2022	6	27	
4	Building Construction	Building Construction	10/1/2022	9/1/2023	6	288	
5	Paving	Paving	6/1/2023	9/1/2023	6	80	
6	Architectural Coating	Architectural Coating	6/1/2023	9/1/2023	6	80	

**Acres of Grading (Site Preparation Phase): 27**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 39,261; Residential Outdoor: 13,087; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Bore/Drill Rigs	1	8.00	221	0.50
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	8.00	158	0.38
Demolition	Generator Sets	1	8.00	84	0.74

730 Central Avenue - Bay Area AQMD Air District, Summer

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

Demolition	Pressure Washers	1	8.00	13	0.30
Demolition	Pumps	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	0	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Trenchers	1	8.00	78	0.50
Site Preparation	Bore/Drill Rigs	1	8.00	221	0.50
Site Preparation	Concrete/Industrial Saws	1	8.00	81	0.73
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Forklifts	1	8.00	89	0.20
Site Preparation	Generator Sets	1	8.00	84	0.74
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Cement and Mortar Mixers	1	8.00	9	0.56
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Grading	Generator Sets	1	8.00	84	0.74
Grading	Graders	0	6.00	187	0.41
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	63	0.31
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pressure Washers	1	8.00	13	0.30
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37

730 Central Avenue - Bay Area AQMD Air District, Summer

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

Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Pavers	0	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Pressure Washers	1	8.00	13	0.30
Paving	Pumps	1	8.00	84	0.74
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Aerial Lifts	1	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48
Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Forklifts	1	8.00	89	0.20
Architectural Coating	Pressure Washers	1	8.00	13	0.30
Architectural Coating	Pumps	1	8.00	84	0.74

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	8	20.00	0.00	23.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	15.00	2.00	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	5	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.2 Demolition - 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					0.1801	0.0000	0.1801	0.0273	0.0000	0.0273			0.0000			0.0000
Off-Road	1.9966	17.6800	20.8882	0.0403		0.9318	0.9318		0.8945	0.8945		3,844.2785	3,844.2785	0.7336		3,862.6177
<b>Total</b>	<b>1.9966</b>	<b>17.6800</b>	<b>20.8882</b>	<b>0.0403</b>	<b>0.1801</b>	<b>0.9318</b>	<b>1.1119</b>	<b>0.0273</b>	<b>0.8945</b>	<b>0.9218</b>		<b>3,844.2785</b>	<b>3,844.2785</b>	<b>0.7336</b>		<b>3,862.6177</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	lb/day										lb/day					
Hauling	3.8700e-003	0.1364	0.0299	5.2000e-004	0.0144	1.2700e-003	0.0156	3.9400e-003	1.2100e-003	5.1500e-003		56.7510	56.7510	1.8700e-003	8.9900e-003	59.4764
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	0.0582	0.0351	0.5170	1.4700e-003	0.1643	8.6000e-004	0.1652	0.0436	7.9000e-004	0.0444		149.6126	149.6126	4.0800e-003	3.7300e-003	150.8263
<b>Total</b>	<b>0.0621</b>	<b>0.1715</b>	<b>0.5469</b>	<b>1.9900e-003</b>	<b>0.1787</b>	<b>2.1300e-003</b>	<b>0.1808</b>	<b>0.0475</b>	<b>2.0000e-003</b>	<b>0.0495</b>		<b>206.3636</b>	<b>206.3636</b>	<b>5.9500e-003</b>	<b>0.0127</b>	<b>210.3027</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.2 Demolition - 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	lb/day										lb/day					
Fugitive Dust					0.1801	0.0000	0.1801	0.0273	0.0000	0.0273			0.0000			0.0000
Off-Road	1.9966	17.6800	20.8882	0.0403		0.9318	0.9318		0.8945	0.8945	0.0000	3,844.278 5	3,844.278 5	0.7336		3,862.617 7
<b>Total</b>	<b>1.9966</b>	<b>17.6800</b>	<b>20.8882</b>	<b>0.0403</b>	<b>0.1801</b>	<b>0.9318</b>	<b>1.1119</b>	<b>0.0273</b>	<b>0.8945</b>	<b>0.9218</b>	<b>0.0000</b>	<b>3,844.278 5</b>	<b>3,844.278 5</b>	<b>0.7336</b>		<b>3,862.617 7</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	lb/day										lb/day					
Hauling	3.8700e-003	0.1364	0.0299	5.2000e-004	0.0144	1.2700e-003	0.0156	3.9400e-003	1.2100e-003	5.1500e-003		56.7510	56.7510	1.8700e-003	8.9900e-003	59.4764
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	0.0582	0.0351	0.5170	1.4700e-003	0.1643	8.6000e-004	0.1652	0.0436	7.9000e-004	0.0444		149.6126	149.6126	4.0800e-003	3.7300e-003	150.8263
<b>Total</b>	<b>0.0621</b>	<b>0.1715</b>	<b>0.5469</b>	<b>1.9900e-003</b>	<b>0.1787</b>	<b>2.1300e-003</b>	<b>0.1808</b>	<b>0.0475</b>	<b>2.0000e-003</b>	<b>0.0495</b>		<b>206.3636</b>	<b>206.3636</b>	<b>5.9500e-003</b>	<b>0.0127</b>	<b>210.3027</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.3 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.9722	19.4366	19.9883	0.0418		0.8731	0.8731		0.8270	0.8270		4,021.0630	4,021.0630	0.9692		4,045.2940
<b>Total</b>	<b>1.9722</b>	<b>19.4366</b>	<b>19.9883</b>	<b>0.0418</b>	<b>0.5303</b>	<b>0.8731</b>	<b>1.4033</b>	<b>0.0573</b>	<b>0.8270</b>	<b>0.8842</b>		<b>4,021.0630</b>	<b>4,021.0630</b>	<b>0.9692</b>		<b>4,045.2940</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	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	0.0582	0.0351	0.5170	1.4700e-003	0.1643	8.6000e-004	0.1652	0.0436	7.9000e-004	0.0444		149.6126	149.6126	4.0800e-003	3.7300e-003	150.8263
<b>Total</b>	<b>0.0582</b>	<b>0.0351</b>	<b>0.5170</b>	<b>1.4700e-003</b>	<b>0.1643</b>	<b>8.6000e-004</b>	<b>0.1652</b>	<b>0.0436</b>	<b>7.9000e-004</b>	<b>0.0444</b>		<b>149.6126</b>	<b>149.6126</b>	<b>4.0800e-003</b>	<b>3.7300e-003</b>	<b>150.8263</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.3 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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.9722	19.4366	19.9883	0.0418		0.8731	0.8731		0.8270	0.8270	0.0000	4,021.063 0	4,021.063 0	0.9692		4,045.294 0
<b>Total</b>	<b>1.9722</b>	<b>19.4366</b>	<b>19.9883</b>	<b>0.0418</b>	<b>0.5303</b>	<b>0.8731</b>	<b>1.4033</b>	<b>0.0573</b>	<b>0.8270</b>	<b>0.8842</b>	<b>0.0000</b>	<b>4,021.063 0</b>	<b>4,021.063 0</b>	<b>0.9692</b>		<b>4,045.294 0</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	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	0.0582	0.0351	0.5170	1.4700e-003	0.1643	8.6000e-004	0.1652	0.0436	7.9000e-004	0.0444		149.6126	149.6126	4.0800e-003	3.7300e-003	150.8263
<b>Total</b>	<b>0.0582</b>	<b>0.0351</b>	<b>0.5170</b>	<b>1.4700e-003</b>	<b>0.1643</b>	<b>8.6000e-004</b>	<b>0.1652</b>	<b>0.0436</b>	<b>7.9000e-004</b>	<b>0.0444</b>		<b>149.6126</b>	<b>149.6126</b>	<b>4.0800e-003</b>	<b>3.7300e-003</b>	<b>150.8263</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.4 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2593	11.0667	14.7227	0.0241		0.5756	0.5756		0.5545	0.5545		2,283.9187	2,283.9187	0.3963		2,293.8267
<b>Total</b>	<b>1.2593</b>	<b>11.0667</b>	<b>14.7227</b>	<b>0.0241</b>	<b>0.0000</b>	<b>0.5756</b>	<b>0.5756</b>	<b>0.0000</b>	<b>0.5545</b>	<b>0.5545</b>		<b>2,283.9187</b>	<b>2,283.9187</b>	<b>0.3963</b>		<b>2,293.8267</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	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	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
<b>Total</b>	<b>0.0436</b>	<b>0.0263</b>	<b>0.3878</b>	<b>1.1000e-003</b>	<b>0.1232</b>	<b>6.4000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>5.9000e-004</b>	<b>0.0333</b>		<b>112.2095</b>	<b>112.2095</b>	<b>3.0600e-003</b>	<b>2.8000e-003</b>	<b>113.1197</b>



730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.4 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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.2593	11.0667	14.7227	0.0241		0.5756	0.5756		0.5545	0.5545	0.0000	2,283.9187	2,283.9187	0.3963		2,293.8267
<b>Total</b>	<b>1.2593</b>	<b>11.0667</b>	<b>14.7227</b>	<b>0.0241</b>	<b>0.0000</b>	<b>0.5756</b>	<b>0.5756</b>	<b>0.0000</b>	<b>0.5545</b>	<b>0.5545</b>	<b>0.0000</b>	<b>2,283.9187</b>	<b>2,283.9187</b>	<b>0.3963</b>		<b>2,293.8267</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	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	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
<b>Total</b>	<b>0.0436</b>	<b>0.0263</b>	<b>0.3878</b>	<b>1.1000e-003</b>	<b>0.1232</b>	<b>6.4000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>5.9000e-004</b>	<b>0.0333</b>		<b>112.2095</b>	<b>112.2095</b>	<b>3.0600e-003</b>	<b>2.8000e-003</b>	<b>113.1197</b>

730 Central Avenue - Bay Area AQMD Air District, 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 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	2.0553	17.6262	20.7001	0.0352		0.8742	0.8742		0.8478	0.8478		3,291.3539	3,291.3539	0.5014		3,303.8881
<b>Total</b>	<b>2.0553</b>	<b>17.6262</b>	<b>20.7001</b>	<b>0.0352</b>		<b>0.8742</b>	<b>0.8742</b>		<b>0.8478</b>	<b>0.8478</b>		<b>3,291.3539</b>	<b>3,291.3539</b>	<b>0.5014</b>		<b>3,303.8881</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	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	4.3100e-003	0.1079	0.0321	4.2000e-004	0.0135	1.1500e-003	0.0147	3.9000e-003	1.1000e-003	5.0000e-003		45.3972	45.3972	9.9000e-004	6.7300e-003	47.4264
Worker	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
<b>Total</b>	<b>0.0480</b>	<b>0.1342</b>	<b>0.4198</b>	<b>1.5200e-003</b>	<b>0.1368</b>	<b>1.7900e-003</b>	<b>0.1386</b>	<b>0.0366</b>	<b>1.6900e-003</b>	<b>0.0383</b>		<b>157.6066</b>	<b>157.6066</b>	<b>4.0500e-003</b>	<b>9.5300e-003</b>	<b>160.5461</b>

730 Central Avenue - Bay Area AQMD Air District, 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 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	2.0553	17.6262	20.7001	0.0352		0.8742	0.8742		0.8478	0.8478	0.0000	3,291.3539	3,291.3539	0.5014		3,303.8881
<b>Total</b>	<b>2.0553</b>	<b>17.6262</b>	<b>20.7001</b>	<b>0.0352</b>		<b>0.8742</b>	<b>0.8742</b>		<b>0.8478</b>	<b>0.8478</b>	<b>0.0000</b>	<b>3,291.3539</b>	<b>3,291.3539</b>	<b>0.5014</b>		<b>3,303.8881</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	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	4.3100e-003	0.1079	0.0321	4.2000e-004	0.0135	1.1500e-003	0.0147	3.9000e-003	1.1000e-003	5.0000e-003		45.3972	45.3972	9.9000e-004	6.7300e-003	47.4264
Worker	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
<b>Total</b>	<b>0.0480</b>	<b>0.1342</b>	<b>0.4198</b>	<b>1.5200e-003</b>	<b>0.1368</b>	<b>1.7900e-003</b>	<b>0.1386</b>	<b>0.0366</b>	<b>1.6900e-003</b>	<b>0.0383</b>		<b>157.6066</b>	<b>157.6066</b>	<b>4.0500e-003</b>	<b>9.5300e-003</b>	<b>160.5461</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.5 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	lb/day										lb/day					
Off-Road	1.9131	16.3724	20.6100	0.0352		0.7586	0.7586		0.7358	0.7358		3,292.0245	3,292.0245	0.4907		3,304.2924
<b>Total</b>	<b>1.9131</b>	<b>16.3724</b>	<b>20.6100</b>	<b>0.0352</b>		<b>0.7586</b>	<b>0.7586</b>		<b>0.7358</b>	<b>0.7358</b>		<b>3,292.0245</b>	<b>3,292.0245</b>	<b>0.4907</b>		<b>3,304.2924</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	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	2.1800e-003	0.0858	0.0274	4.1000e-004	0.0136	5.2000e-004	0.0141	3.9000e-003	5.0000e-004	4.4000e-003		43.4922	43.4922	8.9000e-004	6.4300e-003	45.4305
Worker	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
<b>Total</b>	<b>0.0428</b>	<b>0.1091</b>	<b>0.3860</b>	<b>1.4800e-003</b>	<b>0.1368</b>	<b>1.1300e-003</b>	<b>0.1379</b>	<b>0.0366</b>	<b>1.0600e-003</b>	<b>0.0377</b>		<b>152.8189</b>	<b>152.8189</b>	<b>3.6500e-003</b>	<b>9.0200e-003</b>	<b>155.5990</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.5 Building Construction - 2023**

**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	1.9131	16.3724	20.6100	0.0352		0.7586	0.7586		0.7358	0.7358	0.0000	3,292.0245	3,292.0245	0.4907		3,304.2924
<b>Total</b>	<b>1.9131</b>	<b>16.3724</b>	<b>20.6100</b>	<b>0.0352</b>		<b>0.7586</b>	<b>0.7586</b>		<b>0.7358</b>	<b>0.7358</b>	<b>0.0000</b>	<b>3,292.0245</b>	<b>3,292.0245</b>	<b>0.4907</b>		<b>3,304.2924</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	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	2.1800e-003	0.0858	0.0274	4.1000e-004	0.0136	5.2000e-004	0.0141	3.9000e-003	5.0000e-004	4.4000e-003		43.4922	43.4922	8.9000e-004	6.4300e-003	45.4305
Worker	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
<b>Total</b>	<b>0.0428</b>	<b>0.1091</b>	<b>0.3860</b>	<b>1.4800e-003</b>	<b>0.1368</b>	<b>1.1300e-003</b>	<b>0.1379</b>	<b>0.0366</b>	<b>1.0600e-003</b>	<b>0.0377</b>		<b>152.8189</b>	<b>152.8189</b>	<b>3.6500e-003</b>	<b>9.0200e-003</b>	<b>155.5990</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.6 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	lb/day										lb/day					
Off-Road	0.9188	7.5150	10.4119	0.0180		0.3646	0.3646		0.3584	0.3584		1,687.1446	1,687.1446	0.1930		1,691.9696
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9188</b>	<b>7.5150</b>	<b>10.4119</b>	<b>0.0180</b>		<b>0.3646</b>	<b>0.3646</b>		<b>0.3584</b>	<b>0.3584</b>		<b>1,687.1446</b>	<b>1,687.1446</b>	<b>0.1930</b>		<b>1,691.9696</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	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	0.0352	0.0202	0.3108	9.3000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		94.7498	94.7498	2.3900e-003	2.2500e-003	95.4794
<b>Total</b>	<b>0.0352</b>	<b>0.0202</b>	<b>0.3108</b>	<b>9.3000e-004</b>	<b>0.1068</b>	<b>5.3000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.9000e-004</b>	<b>0.0288</b>		<b>94.7498</b>	<b>94.7498</b>	<b>2.3900e-003</b>	<b>2.2500e-003</b>	<b>95.4794</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.6 Paving - 2023**

**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	0.9188	7.5150	10.4119	0.0180		0.3646	0.3646		0.3584	0.3584	0.0000	1,687.1446	1,687.1446	0.1930		1,691.9696
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9188</b>	<b>7.5150</b>	<b>10.4119</b>	<b>0.0180</b>		<b>0.3646</b>	<b>0.3646</b>		<b>0.3584</b>	<b>0.3584</b>	<b>0.0000</b>	<b>1,687.1446</b>	<b>1,687.1446</b>	<b>0.1930</b>		<b>1,691.9696</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	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	0.0352	0.0202	0.3108	9.3000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		94.7498	94.7498	2.3900e-003	2.2500e-003	95.4794
<b>Total</b>	<b>0.0352</b>	<b>0.0202</b>	<b>0.3108</b>	<b>9.3000e-004</b>	<b>0.1068</b>	<b>5.3000e-004</b>	<b>0.1073</b>	<b>0.0283</b>	<b>4.9000e-004</b>	<b>0.0288</b>		<b>94.7498</b>	<b>94.7498</b>	<b>2.3900e-003</b>	<b>2.2500e-003</b>	<b>95.4794</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.7 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	lb/day										lb/day					
Archit. Coating	3.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8589	8.3602	8.0378	0.0161		0.3755	0.3755		0.3573	0.3573		1,531.5945	1,531.5945	0.3135		1,539.4318
<b>Total</b>	<b>3.8918</b>	<b>8.3602</b>	<b>8.0378</b>	<b>0.0161</b>		<b>0.3755</b>	<b>0.3755</b>		<b>0.3573</b>	<b>0.3573</b>		<b>1,531.5945</b>	<b>1,531.5945</b>	<b>0.3135</b>		<b>1,539.4318</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	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	8.1100e-003	4.6600e-003	0.0717	2.1000e-004	0.0246	1.2000e-004	0.0248	6.5400e-003	1.1000e-004	6.6500e-003		21.8654	21.8654	5.5000e-004	5.2000e-004	22.0337
<b>Total</b>	<b>8.1100e-003</b>	<b>4.6600e-003</b>	<b>0.0717</b>	<b>2.1000e-004</b>	<b>0.0246</b>	<b>1.2000e-004</b>	<b>0.0248</b>	<b>6.5400e-003</b>	<b>1.1000e-004</b>	<b>6.6500e-003</b>		<b>21.8654</b>	<b>21.8654</b>	<b>5.5000e-004</b>	<b>5.2000e-004</b>	<b>22.0337</b>



730 Central Avenue - Bay Area AQMD Air District, Summer

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

**3.7 Architectural Coating - 2023**

**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	3.0329					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.8589	8.3602	8.0378	0.0161		0.3755	0.3755		0.3573	0.3573	0.0000	1,531.5945	1,531.5945	0.3135		1,539.4318
<b>Total</b>	<b>3.8918</b>	<b>8.3602</b>	<b>8.0378</b>	<b>0.0161</b>		<b>0.3755</b>	<b>0.3755</b>		<b>0.3573</b>	<b>0.3573</b>	<b>0.0000</b>	<b>1,531.5945</b>	<b>1,531.5945</b>	<b>0.3135</b>		<b>1,539.4318</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	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	8.1100e-003	4.6600e-003	0.0717	2.1000e-004	0.0246	1.2000e-004	0.0248	6.5400e-003	1.1000e-004	6.6500e-003		21.8654	21.8654	5.5000e-004	5.2000e-004	22.0337
<b>Total</b>	<b>8.1100e-003</b>	<b>4.6600e-003</b>	<b>0.0717</b>	<b>2.1000e-004</b>	<b>0.0246</b>	<b>1.2000e-004</b>	<b>0.0248</b>	<b>6.5400e-003</b>	<b>1.1000e-004</b>	<b>6.6500e-003</b>		<b>21.8654</b>	<b>21.8654</b>	<b>5.5000e-004</b>	<b>5.2000e-004</b>	<b>22.0337</b>

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3052	0.2855	2.5317	5.4200e-003	0.5553	3.8600e-003	0.5592	0.1479	3.5900e-003	0.1515		556.6953	556.6953	0.0335	0.0246	564.8694
Unmitigated	0.3052	0.2855	2.5317	5.4200e-003	0.5553	3.8600e-003	0.5592	0.1479	3.5900e-003	0.1515		556.6953	556.6953	0.0335	0.0246	564.8694

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	114.24	103.11	85.89	250,823	250,823
Total	114.24	103.11	85.89	250,823	250,823

**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 Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	4.7100e-003	0.0403	0.0171	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.4268	51.4268	9.9000e-004	9.4000e-004	51.7324
NaturalGas Unmitigated	4.7100e-003	0.0403	0.0171	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.4268	51.4268	9.9000e-004	9.4000e-004	51.7324

**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					
Apartments Mid Rise	437.127	4.7100e-003	0.0403	0.0171	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.4268	51.4268	9.9000e-004	9.4000e-004	51.7324
<b>Total</b>		<b>4.7100e-003</b>	<b>0.0403</b>	<b>0.0171</b>	<b>2.6000e-004</b>		<b>3.2600e-003</b>	<b>3.2600e-003</b>		<b>3.2600e-003</b>	<b>3.2600e-003</b>		<b>51.4268</b>	<b>51.4268</b>	<b>9.9000e-004</b>	<b>9.4000e-004</b>	<b>51.7324</b>

730 Central Avenue - Bay Area AQMD Air District, 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**

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					
Apartments Mid Rise	0.437127	4.7100e-003	0.0403	0.0171	2.6000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003		51.4268	51.4268	9.9000e-004	9.4000e-004	51.7324
<b>Total</b>		<b>4.7100e-003</b>	<b>0.0403</b>	<b>0.0171</b>	<b>2.6000e-004</b>		<b>3.2600e-003</b>	<b>3.2600e-003</b>		<b>3.2600e-003</b>	<b>3.2600e-003</b>		<b>51.4268</b>	<b>51.4268</b>	<b>9.9000e-004</b>	<b>9.4000e-004</b>	<b>51.7324</b>

**6.0 Area Detail**

**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	0.5336	0.0200	1.7329	9.0000e-005		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	3.1196	3.1196	3.0000e-003	0.0000	3.1946
Unmitigated	0.5336	0.0200	1.7329	9.0000e-005		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003	0.0000	3.1196	3.1196	3.0000e-003	0.0000	3.1946

730 Central Avenue - Bay Area AQMD Air District, Summer

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

**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	0.0665					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4149					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	0.0522	0.0200	1.7329	9.0000e-005		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003		3.1196	3.1196	3.0000e-003		3.1946
<b>Total</b>	<b>0.5336</b>	<b>0.0200</b>	<b>1.7329</b>	<b>9.0000e-005</b>		<b>9.5900e-003</b>	<b>9.5900e-003</b>		<b>9.5900e-003</b>	<b>9.5900e-003</b>	<b>0.0000</b>	<b>3.1196</b>	<b>3.1196</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>3.1946</b>

730 Central Avenue - Bay Area AQMD Air District, 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	0.0665					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4149					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	0.0522	0.0200	1.7329	9.0000e-005		9.5900e-003	9.5900e-003		9.5900e-003	9.5900e-003		3.1196	3.1196	3.0000e-003		3.1946
<b>Total</b>	<b>0.5336</b>	<b>0.0200</b>	<b>1.7329</b>	<b>9.0000e-005</b>		<b>9.5900e-003</b>	<b>9.5900e-003</b>		<b>9.5900e-003</b>	<b>9.5900e-003</b>	<b>0.0000</b>	<b>3.1196</b>	<b>3.1196</b>	<b>3.0000e-003</b>	<b>0.0000</b>	<b>3.1946</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

730 Central Avenue - Bay Area AQMD Air District, 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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# 730 Central Avenue

Last Updated: 10/21/2021

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		Load Factor	Construction Phase	Fuel Used (gallons)
		Day	Horsepower			
Concrete Saws	1	8	81	0.73	Demo	778.34
Tractors/Loaders/Backhoes	1	6	97	0.37	Demo	354.32
Bore/Drill Rigs	1	8	221	0.50	Demo	1,308.37
Generator Sets	1	8	84	0.74	Demo	818.22
Pressure Washers	1	8	13	0.30	Demo	51.34
Pumps	1	8	84	0.74	Demo	818.22
Trenchers	1	8	78	0.50	Demo	513.36
Excavators	1	8	158	0.38	Demo	710.90
Concrete/Industrial Saws	1	8	81	0.73	Site Prep	1,501.08
Excavators	1	8	18	0.38	Site Prep	173.64
Bore/Drill Rigs	1	8	247	0.40	Site Prep	2,256.11
Forklifts	1	8	89	0.20	Site Prep	451.87
Generator Sets	1	8	84	0.74	Site Prep	1,578.00
Tractors/Loaders/Backhoes	2	8	97	0.37	Site Prep	1,822.22
Graders	1	8	187	0.41	Site Prep	1,750.77
Excavators	1	8	158	0.38	Grading	685.51
Cement and Mortar Mixes	1	8	9	0.56	Grading	63.97
Concrete/Industrial Saws	1	8	81	0.73	Grading	750.54
Generator Sets	1	8	84	0.74	Grading	789.00
Tractors/Loaders/Backhoes	1	7	97	0.37	Grading	398.61
Rollers	1	8	80	0.38	Grading	385.87
Cement and Mortar Mixes	1	8	9	0.56	Building	682.38
Concrete/Industrial Saws	1	8	81	0.73	Building	8,005.77
Generator Sets	1	8	84	0.74	Building	8,416.01
Tractors/Loaders/Backhoes	2	8	97	0.37	Building	9,718.49
Welders	1	8	46	0.45	Building	2,802.63
Pressure Washers	1	8	13	0.30	Building	528.03
Pumps	1	8	84	0.74	Building	8,416.01
Cranes	1	4	231	0.29	Building	4,079.26
Forklifts	1	6	89	0.20	Building	1,807.49
Aerial Lifts	1	8	63	0.31	Building	2,644.22
Aerial Lifts	1	8	63	0.31	Arch Coating	734.51
Cranes	1	8	231	0.29	Arch Coating	2,266.26
Concrete/Industrial Saws	1	8	81	0.73	Paving	2,223.83
Paving Equipment	1	8	132	0.36	Paving	1,607.59
Cement and Mortar Mixes	1	8	9	0.56	Paving	189.55
Pressure Washers	1	8	13	0.30	Paving	146.68



Pumps	1	8	84	0.74	Paving	2,337.78
<b>Total Fuel Used</b>						<b>74,566.76</b>
						<b>(Gallons)</b>

<b>Construction Phase</b>	<b>Days of Operation</b>
Demolition Phase	28
Site Preparation Phase	54
Grading Phase	27
Building Construction Phase	288
Paving Phase	80
Architectural Coating Phase	80
<b>Total Days</b>	<b>557</b>

**WORKER TRIPS**

<b>Constuction Phase</b>	<b>MPG [2]</b>	<b>Trips</b>	<b>Trip Length (miles)</b>	<b>Fuel Used (gallons)</b>
Demolition	24.1	20	10.8	250.95
Site Prep Phase	24.1	20	10.8	483.98
Grading Phase	24.1	15	10.8	181.49
Building Phase	24.1	15	10.8	1935.93
Paving Phase	24.1	13	10.8	466.06
Architectural Coating Phase	24.1	3	10.8	107.55
<b>Total</b>				<b>3,425.98</b>

**HAULING AND VENDOR TRIPS**

<b>Trip Class</b>	<b>MPG [2]</b>	<b>Trips</b>	<b>Trip Length (miles)</b>	<b>Fuel Used (gallons)</b>
<b>HAULING TRIPS</b>				
Demolition	7.5	23	10.8	33.12
Site Prep Phase	7.5	0	10.8	0.00
Grading Phase	7.5	0	10.8	0.00
Building Phase	7.5	0	10.8	0.00
Paving Phase	7.5	0	10.8	0.00
Architectural Coating Phase	7.5	0	10.8	0.00
<b>Total</b>				<b>33.12</b>

**VENDOR TRIPS**

Demolition	7.5	0	10.8	0.00
Site Prep Phase	7.5	0	10.8	0.00
Grading Phase	7.5	0	10.8	0.00
Building Phase	7.5	2	10.8	829.44
Paving Phase	7.5	0	10.8	0.00
Architectural Coating Phase	7.5	0	10.8	0.00
<b>Total</b>				<b>8.00</b>

<b>Total Gasoline Consumption (gallons)</b>	<b>3,425.98</b>
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<b>Total Diesel Consumption (gallons)</b>
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<b>74,607.88</b>
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**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?Dockey=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>.

# 730 Central Avenue

Last Updated: 10/21/2021

Populate one of the following tables (Leave the other blank):

<b>Annual VMT</b>	<b>OR</b>	<b>Daily Vehicle Trips</b>
Annual VMT: 250,823		Daily Vehicle Trips: Average Trip Distance:

Fleet Class	Fleet Mix	Fuel Economy (MPG)	
Light Duty Auto (LDA)	0.552821	Passenger Vehicles	24.1
Light Duty Truck 1 (LDT1)	0.058334	Light-Med Duty Trucks	17.6
Light Duty Truck 2 (LDT2)	0.189005	Heavy Trucks/Other	7.5
Medium Duty Vehicle (MDV)	0.121481	Motorcycles	52.1
Light Heavy Duty 1 (LHD1)	0.023262		
Light Heavy Duty 2 (LHD2)	0.005577		
Medium Heavy Duty (MHD)	0.010166		
Heavy Heavy Duty (HHD)	0.007476		
Other Bus (OBUS)	0.001000		
Urban Bus (UBUS)	0.000579		
School Bus (SBUS)	0.000826		
Motorhome (MH)	0.002928		
Motorcycle (MCY)	0.026545		

Fleet Mix					
Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Passenger Vehicles	55.28%	Gasoline	138660	0.00	5753.54
Light-Medium Duty Trucks	36.88%	Gasoline	92509	0.00	5256.17
Heavy Trucks/Other	5.18%	Diesel	12996	0.00	1732.82
Motorcycle	2.65%	Gasoline	6658	0.00	127.79

<b>Total Gasoline Consumption (gallons)</b>	<b>11137.50</b>
<b>Total Diesel Consumption (gallons)</b>	<b>1732.82</b>