

# **Initial Study/Mitigated Negative Declaration**

## **Kindred Church Expansion Project**

**Development Project Number: DEV2020-00016**

### **Appendix A – Air Quality Calculations**

Prepared for | Planning Services Division  
City of Anaheim  
200 South Anaheim Boulevard  
Anaheim, California 92805

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March 2022

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Kindred Church**

**Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Place of Worship	15.00	1000sqft	0.34	15,000.00	0
Other Non-Asphalt Surfaces	0.75	Acre	0.75	32,670.00	0
Parking Lot	1.85	Acre	1.85	80,586.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Anaheim Public Utilities				
<b>CO2 Intensity (lb/MWhr)</b>	1047.47	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - From APUD  
 Land Use - Building size estimated for painting  
 Parking lot for 3 lots to be paved  
 Non-asphalt surfaces are new plazas

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase -

Schedule by owner

Demo includes site prep for plazas and moving modulares

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment -

Demolition -

Grading -

Vehicle Trips - Trip rates based on Trip Generation letter

Energy Use - No gas service

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Trips and VMT -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	6.00	30.00

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tblConstructionPhase	NumDays	220.00	100.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	T24NG	13.90	0.00
tblGrading	MaterialImported	0.00	2,600.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1543.28	1047.47
tblVehicleTrips	ST_TR	5.99	18.13
tblVehicleTrips	SU_TR	27.63	18.13
tblVehicleTrips	WD_TR	6.95	5.33

**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 Not 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					
2021	0.0535	0.5532	0.3623	6.5000e-004	0.0559	0.0281	0.0840	0.0255	0.0259	0.0513			58.2556	0.0166	8.7000e-004	58.9306
2022	0.1477	0.5793	0.5400	1.3200e-003	0.0997	0.0247	0.1244	0.0399	0.0228	0.0626			119.3600	0.0231	4.5100e-003	121.2830
<b>Maximum</b>	<b>0.1477</b>	<b>0.5793</b>	<b>0.5400</b>	<b>1.3200e-003</b>	<b>0.0997</b>	<b>0.0281</b>	<b>0.1244</b>	<b>0.0399</b>	<b>0.0259</b>	<b>0.0626</b>			<b>119.3600</b>	<b>0.0231</b>	<b>4.5100e-003</b>	<b>121.2830</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					
2021	0.0535	0.5532	0.3623	6.5000e-004	0.0278	0.0281	0.0560	0.0122	0.0259	0.0381			58.2556	0.0166	8.7000e-004	58.9305
2022	0.1477	0.5793	0.5400	1.3200e-003	0.0670	0.0247	0.0916	0.0239	0.0228	0.0467			119.3599	0.0231	4.5100e-003	121.2829
<b>Maximum</b>	<b>0.1477</b>	<b>0.5793</b>	<b>0.5400</b>	<b>1.3200e-003</b>	<b>0.0670</b>	<b>0.0281</b>	<b>0.0916</b>	<b>0.0239</b>	<b>0.0259</b>	<b>0.0467</b>			<b>119.3599</b>	<b>0.0231</b>	<b>4.5100e-003</b>	<b>121.2829</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	39.07	0.00	29.18	44.79	0.00	25.68	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	10-4-2021	1-3-2022	0.6102	0.6102
2	1-4-2022	4-3-2022	0.3426	0.3426
3	4-4-2022	7-3-2022	0.3117	0.3117
4	7-4-2022	9-30-2022	0.0602	0.0602
		Highest	0.6102	0.6102

**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	0.0701	0.0000	2.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000			4.4000e-004	0.0000	0.0000	4.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			72.3401	2.0000e-003	4.1000e-004	72.5137
Mobile	0.0614	0.0688	0.5631	1.1000e-003	0.1080	9.6000e-004	0.1090	0.0288	9.0000e-004	0.0297			101.4072	8.0300e-003	5.0000e-003	103.0970
Waste						0.0000	0.0000		0.0000	0.0000			17.3557	1.0257	0.0000	42.9981
Water						0.0000	0.0000		0.0000	0.0000			6.9274	0.0155	4.0000e-004	7.4337
<b>Total</b>	<b>0.1315</b>	<b>0.0688</b>	<b>0.5633</b>	<b>1.1000e-003</b>	<b>0.1080</b>	<b>9.6000e-004</b>	<b>0.1090</b>	<b>0.0288</b>	<b>9.0000e-004</b>	<b>0.0297</b>			<b>198.0310</b>	<b>1.0512</b>	<b>5.8100e-003</b>	<b>226.0428</b>

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**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	0.0701	0.0000	2.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000			4.4000e-004	0.0000	0.0000	4.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			72.3401	2.0000e-003	4.1000e-004	72.5137
Mobile	0.0614	0.0688	0.5631	1.1000e-003	0.1080	9.6000e-004	0.1090	0.0288	9.0000e-004	0.0297			101.4072	8.0300e-003	5.0000e-003	103.0970
Waste						0.0000	0.0000		0.0000	0.0000			8.6779	0.5129	0.0000	21.4990
Water						0.0000	0.0000		0.0000	0.0000			6.9274	0.0155	4.0000e-004	7.4337
<b>Total</b>	<b>0.1315</b>	<b>0.0688</b>	<b>0.5633</b>	<b>1.1000e-003</b>	<b>0.1080</b>	<b>9.6000e-004</b>	<b>0.1090</b>	<b>0.0288</b>	<b>9.0000e-004</b>	<b>0.0297</b>			<b>189.3531</b>	<b>0.5384</b>	<b>5.8100e-003</b>	<b>204.5438</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>4.38</b>	<b>48.79</b>	<b>0.00</b>	<b>9.51</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	10/4/2021	12/13/2021	5	50	
2	Grading	Grading	12/14/2021	1/25/2022	5	30	
3	Building Construction	Building Construction	1/26/2022	6/14/2022	5	100	

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4	Paving	Paving	6/15/2022	6/28/2022	5	10
5	Architectural Coating	Architectural Coating	6/29/2022	7/12/2022	5	10

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

**Acres of Grading (Grading Phase): 15**

**Acres of Paving: 2.6**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 6,795 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	0	0.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48



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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	325.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	54.00	21.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2021**

**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					4.6000e-004	0.0000	4.6000e-004	7.0000e-005	0.0000	7.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0410	0.4248	0.2759	4.6000e-004		0.0221	0.0221		0.0204	0.0204			40.0217	0.0129	0.0000	40.3453
<b>Total</b>	<b>0.0410</b>	<b>0.4248</b>	<b>0.2759</b>	<b>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0221</b>	<b>0.0226</b>	<b>7.0000e-005</b>	<b>0.0204</b>	<b>0.0204</b>			<b>40.0217</b>	<b>0.0129</b>	<b>0.0000</b>	<b>40.3453</b>

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**3.2 Demolition - 2021**

**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	1.0000e-005	4.1000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.1294	1.0000e-005	2.0000e-005	0.1357
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
Worker	9.5000e-004	8.3000e-004	0.0104	3.0000e-005	2.7900e-003	2.0000e-005	2.8100e-003	7.4000e-004	2.0000e-005	7.6000e-004			2.3722	7.0000e-005	7.0000e-005	2.3944
<b>Total</b>	<b>9.6000e-004</b>	<b>1.2400e-003</b>	<b>0.0104</b>	<b>3.0000e-005</b>	<b>2.8300e-003</b>	<b>2.0000e-005</b>	<b>2.8500e-003</b>	<b>7.5000e-004</b>	<b>2.0000e-005</b>	<b>7.7000e-004</b>			<b>2.5016</b>	<b>8.0000e-005</b>	<b>9.0000e-005</b>	<b>2.5301</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					2.1000e-004	0.0000	2.1000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0410	0.4248	0.2759	4.6000e-004		0.0221	0.0221		0.0204	0.0204			40.0216	0.0129	0.0000	40.3452
<b>Total</b>	<b>0.0410</b>	<b>0.4248</b>	<b>0.2759</b>	<b>4.6000e-004</b>	<b>2.1000e-004</b>	<b>0.0221</b>	<b>0.0223</b>	<b>3.0000e-005</b>	<b>0.0204</b>	<b>0.0204</b>			<b>40.0216</b>	<b>0.0129</b>	<b>0.0000</b>	<b>40.3452</b>

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**3.2 Demolition - 2021**

**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	1.0000e-005	4.1000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.1294	1.0000e-005	2.0000e-005	0.1357
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
Worker	9.5000e-004	8.3000e-004	0.0104	3.0000e-005	2.7900e-003	2.0000e-005	2.8100e-003	7.4000e-004	2.0000e-005	7.6000e-004			2.3722	7.0000e-005	7.0000e-005	2.3944
<b>Total</b>	<b>9.6000e-004</b>	<b>1.2400e-003</b>	<b>0.0104</b>	<b>3.0000e-005</b>	<b>2.8300e-003</b>	<b>2.0000e-005</b>	<b>2.8500e-003</b>	<b>7.5000e-004</b>	<b>2.0000e-005</b>	<b>7.7000e-004</b>			<b>2.5016</b>	<b>8.0000e-005</b>	<b>9.0000e-005</b>	<b>2.5301</b>

**3.3 Grading - 2021**

**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					0.0505	0.0000	0.0505	0.0241	0.0000	0.0241			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1116	0.0698	1.2000e-004		5.7800e-003	5.7800e-003		5.3200e-003	5.3200e-003			10.2698	3.3200e-003	0.0000	10.3528
<b>Total</b>	<b>0.0108</b>	<b>0.1116</b>	<b>0.0698</b>	<b>1.2000e-004</b>	<b>0.0505</b>	<b>5.7800e-003</b>	<b>0.0563</b>	<b>0.0241</b>	<b>5.3200e-003</b>	<b>0.0294</b>			<b>10.2698</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>10.3528</b>

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**3.3 Grading - 2021**

**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-004	0.0153	3.3600e-003	5.0000e-005	1.3000e-003	1.7000e-004	1.4700e-003	3.6000e-004	1.6000e-004	5.2000e-004			4.8114	2.5000e-004	7.6000e-004	5.0451
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
Worker	2.6000e-004	2.3000e-004	2.8400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	0.0000	2.1000e-004			0.6512	2.0000e-005	2.0000e-005	0.6573
<b>Total</b>	<b>7.6000e-004</b>	<b>0.0155</b>	<b>6.2000e-003</b>	<b>6.0000e-005</b>	<b>2.0700e-003</b>	<b>1.8000e-004</b>	<b>2.2400e-003</b>	<b>5.6000e-004</b>	<b>1.6000e-004</b>	<b>7.3000e-004</b>			<b>5.4626</b>	<b>2.7000e-004</b>	<b>7.8000e-004</b>	<b>5.7024</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					0.0227	0.0000	0.0227	0.0108	0.0000	0.0108			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1116	0.0698	1.2000e-004		5.7800e-003	5.7800e-003		5.3200e-003	5.3200e-003			10.2698	3.3200e-003	0.0000	10.3528
<b>Total</b>	<b>0.0108</b>	<b>0.1116</b>	<b>0.0698</b>	<b>1.2000e-004</b>	<b>0.0227</b>	<b>5.7800e-003</b>	<b>0.0285</b>	<b>0.0108</b>	<b>5.3200e-003</b>	<b>0.0162</b>			<b>10.2698</b>	<b>3.3200e-003</b>	<b>0.0000</b>	<b>10.3528</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2021**

**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-004	0.0153	3.3600e-003	5.0000e-005	1.3000e-003	1.7000e-004	1.4700e-003	3.6000e-004	1.6000e-004	5.2000e-004			4.8114	2.5000e-004	7.6000e-004	5.0451
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
Worker	2.6000e-004	2.3000e-004	2.8400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	0.0000	2.1000e-004			0.6512	2.0000e-005	2.0000e-005	0.6573
<b>Total</b>	<b>7.6000e-004</b>	<b>0.0155</b>	<b>6.2000e-003</b>	<b>6.0000e-005</b>	<b>2.0700e-003</b>	<b>1.8000e-004</b>	<b>2.2400e-003</b>	<b>5.6000e-004</b>	<b>1.6000e-004</b>	<b>7.3000e-004</b>			<b>5.4626</b>	<b>2.7000e-004</b>	<b>7.8000e-004</b>	<b>5.7024</b>

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0596	0.0000	0.0596	0.0291	0.0000	0.0291			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1121	0.0804	1.4000e-004		5.5600e-003	5.5600e-003		5.1100e-003	5.1100e-003			12.4749	4.0300e-003	0.0000	12.5757
<b>Total</b>	<b>0.0108</b>	<b>0.1121</b>	<b>0.0804</b>	<b>1.4000e-004</b>	<b>0.0596</b>	<b>5.5600e-003</b>	<b>0.0651</b>	<b>0.0291</b>	<b>5.1100e-003</b>	<b>0.0342</b>			<b>12.4749</b>	<b>4.0300e-003</b>	<b>0.0000</b>	<b>12.5757</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2000e-004	0.0163	3.6300e-003	6.0000e-005	1.5800e-003	1.1000e-004	1.7000e-003	4.4000e-004	1.1000e-004	5.5000e-004			5.6877	3.0000e-004	9.0000e-004	5.9642
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
Worker	2.9000e-004	2.4000e-004	3.1500e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.5000e-004			0.7661	2.0000e-005	2.0000e-005	0.7728
<b>Total</b>	<b>7.1000e-004</b>	<b>0.0165</b>	<b>6.7800e-003</b>	<b>7.0000e-005</b>	<b>2.5100e-003</b>	<b>1.2000e-004</b>	<b>2.6400e-003</b>	<b>6.9000e-004</b>	<b>1.2000e-004</b>	<b>8.0000e-004</b>			<b>6.4537</b>	<b>3.2000e-004</b>	<b>9.2000e-004</b>	<b>6.7370</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					0.0268	0.0000	0.0268	0.0131	0.0000	0.0131			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1121	0.0804	1.4000e-004		5.5600e-003	5.5600e-003		5.1100e-003	5.1100e-003			12.4749	4.0300e-003	0.0000	12.5757
<b>Total</b>	<b>0.0108</b>	<b>0.1121</b>	<b>0.0804</b>	<b>1.4000e-004</b>	<b>0.0268</b>	<b>5.5600e-003</b>	<b>0.0324</b>	<b>0.0131</b>	<b>5.1100e-003</b>	<b>0.0182</b>			<b>12.4749</b>	<b>4.0300e-003</b>	<b>0.0000</b>	<b>12.5757</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2000e-004	0.0163	3.6300e-003	6.0000e-005	1.5800e-003	1.1000e-004	1.7000e-003	4.4000e-004	1.1000e-004	5.5000e-004			5.6877	3.0000e-004	9.0000e-004	5.9642
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
Worker	2.9000e-004	2.4000e-004	3.1500e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.5000e-004			0.7661	2.0000e-005	2.0000e-005	0.7728
<b>Total</b>	<b>7.1000e-004</b>	<b>0.0165</b>	<b>6.7800e-003</b>	<b>7.0000e-005</b>	<b>2.5100e-003</b>	<b>1.2000e-004</b>	<b>2.6400e-003</b>	<b>6.9000e-004</b>	<b>1.2000e-004</b>	<b>8.0000e-004</b>			<b>6.4537</b>	<b>3.2000e-004</b>	<b>9.2000e-004</b>	<b>6.7370</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0310	0.3349	0.2625	5.2000e-004		0.0155	0.0155		0.0142	0.0142			45.8441	0.0148	0.0000	46.2147
<b>Total</b>	<b>0.0310</b>	<b>0.3349</b>	<b>0.2625</b>	<b>5.2000e-004</b>		<b>0.0155</b>	<b>0.0155</b>		<b>0.0142</b>	<b>0.0142</b>			<b>45.8441</b>	<b>0.0148</b>	<b>0.0000</b>	<b>46.2147</b>

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**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	2.0500e-003	0.0540	0.0179	2.1000e-004	6.6200e-003	4.9000e-004	7.1100e-003	1.9100e-003	4.7000e-004	2.3800e-003			20.0506	6.7000e-004	2.8900e-003	20.9292
Worker	9.2500e-003	7.7100e-003	0.1001	2.7000e-004	0.0296	1.9000e-004	0.0298	7.8600e-003	1.8000e-004	8.0400e-003			24.3335	7.0000e-004	6.7000e-004	24.5492
<b>Total</b>	<b>0.0113</b>	<b>0.0617</b>	<b>0.1180</b>	<b>4.8000e-004</b>	<b>0.0362</b>	<b>6.8000e-004</b>	<b>0.0369</b>	<b>9.7700e-003</b>	<b>6.5000e-004</b>	<b>0.0104</b>			<b>44.3841</b>	<b>1.3700e-003</b>	<b>3.5600e-003</b>	<b>45.4784</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	0.0310	0.3349	0.2625	5.2000e-004		0.0155	0.0155		0.0142	0.0142			45.8440	0.0148	0.0000	46.2147
<b>Total</b>	<b>0.0310</b>	<b>0.3349</b>	<b>0.2625</b>	<b>5.2000e-004</b>		<b>0.0155</b>	<b>0.0155</b>		<b>0.0142</b>	<b>0.0142</b>			<b>45.8440</b>	<b>0.0148</b>	<b>0.0000</b>	<b>46.2147</b>



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**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Vendor	2.0500e-003	0.0540	0.0179	2.1000e-004	6.6200e-003	4.9000e-004	7.1100e-003	1.9100e-003	4.7000e-004	2.3800e-003			20.0506	6.7000e-004	2.8900e-003	20.9292
Worker	9.2500e-003	7.7100e-003	0.1001	2.7000e-004	0.0296	1.9000e-004	0.0298	7.8600e-003	1.8000e-004	8.0400e-003			24.3335	7.0000e-004	6.7000e-004	24.5492
<b>Total</b>	<b>0.0113</b>	<b>0.0617</b>	<b>0.1180</b>	<b>4.8000e-004</b>	<b>0.0362</b>	<b>6.8000e-004</b>	<b>0.0369</b>	<b>9.7700e-003</b>	<b>6.5000e-004</b>	<b>0.0104</b>			<b>44.3841</b>	<b>1.3700e-003</b>	<b>3.5600e-003</b>	<b>45.4784</b>

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003			7.7550	2.4600e-003	0.0000	7.8165
Paving	2.4200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.1300e-003</b>	<b>0.0467</b>	<b>0.0585</b>	<b>9.0000e-005</b>		<b>2.4400e-003</b>	<b>2.4400e-003</b>		<b>2.2500e-003</b>	<b>2.2500e-003</b>			<b>7.7550</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8165</b>

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**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	2.6000e-004	2.1000e-004	2.7800e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	0.0000	2.2000e-004			0.6759	2.0000e-005	2.0000e-005	0.6819
<b>Total</b>	<b>2.6000e-004</b>	<b>2.1000e-004</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>			<b>0.6759</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6819</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	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003			7.7550	2.4600e-003	0.0000	7.8165
Paving	2.4200e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.1300e-003</b>	<b>0.0467</b>	<b>0.0585</b>	<b>9.0000e-005</b>		<b>2.4400e-003</b>	<b>2.4400e-003</b>		<b>2.2500e-003</b>	<b>2.2500e-003</b>			<b>7.7550</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8165</b>

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**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	2.6000e-004	2.1000e-004	2.7800e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	0.0000	2.2000e-004			0.6759	2.0000e-005	2.0000e-005	0.6819
<b>Total</b>	<b>2.6000e-004</b>	<b>2.1000e-004</b>	<b>2.7800e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>1.0000e-005</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>			<b>0.6759</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.6819</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0853					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004			1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.0863</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>			<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</b>

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**3.6 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	1.9000e-004	1.6000e-004	2.0400e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004			0.4957	1.0000e-005	1.0000e-005	0.5001
<b>Total</b>	<b>1.9000e-004</b>	<b>1.6000e-004</b>	<b>2.0400e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>			<b>0.4957</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5001</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	0.0853					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004			1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.0863</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>			<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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
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
Worker	1.9000e-004	1.6000e-004	2.0400e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004			0.4957	1.0000e-005	1.0000e-005	0.5001
<b>Total</b>	<b>1.9000e-004</b>	<b>1.6000e-004</b>	<b>2.0400e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>			<b>0.4957</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5001</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0614	0.0688	0.5631	1.1000e-003	0.1080	9.6000e-004	0.1090	0.0288	9.0000e-004	0.0297			101.4072	8.0300e-003	5.0000e-003	103.0970
Unmitigated	0.0614	0.0688	0.5631	1.1000e-003	0.1080	9.6000e-004	0.1090	0.0288	9.0000e-004	0.0297			101.4072	8.0300e-003	5.0000e-003	103.0970

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Place of Worship	79.95	271.95	271.95	287,515	287,515
Total	79.95	271.95	271.95	287,515	287,515

**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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Place of Worship	16.60	8.40	6.90	0.00	95.00	5.00	64	25	11

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Place of Worship	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
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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			72.3401	2.0000e-003	4.1000e-004	72.5137
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			72.3401	2.0000e-003	4.1000e-004	72.5137
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Place of Worship	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Place of Worship	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28205.1	13.4009	3.7000e-004	8.0000e-005	13.4331
Place of Worship	124050	58.9392	1.6300e-003	3.4000e-004	59.0806
<b>Total</b>		<b>72.3401</b>	<b>2.0000e-003</b>	<b>4.2000e-004</b>	<b>72.5137</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	28205.1	13.4009	3.7000e-004	8.0000e-005	13.4331
Place of Worship	124050	58.9392	1.6300e-003	3.4000e-004	59.0806
<b>Total</b>		<b>72.3401</b>	<b>2.0000e-003</b>	<b>4.2000e-004</b>	<b>72.5137</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0701	0.0000	2.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000			4.4000e-004	0.0000	0.0000	4.7000e-004
Unmitigated	0.0701	0.0000	2.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000			4.4000e-004	0.0000	0.0000	4.7000e-004

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.5300e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0615					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000			4.4000e-004	0.0000	0.0000	4.7000e-004
<b>Total</b>	<b>0.0701</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>4.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.7000e-004</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.5300e-003					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0615					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000			4.4000e-004	0.0000	0.0000	4.7000e-004
<b>Total</b>	<b>0.0701</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>4.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.7000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.9274	0.0155	4.0000e-004	7.4337
Unmitigated	6.9274	0.0155	4.0000e-004	7.4337

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	0.469334 / 0.734086	6.9274	0.0155	4.0000e-004	7.4337
<b>Total</b>		<b>6.9274</b>	<b>0.0155</b>	<b>4.0000e-004</b>	<b>7.4337</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Place of Worship	0.469334 / 0.734086	6.9274	0.0155	4.0000e-004	7.4337
<b>Total</b>		<b>6.9274</b>	<b>0.0155</b>	<b>4.0000e-004</b>	<b>7.4337</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.6779	0.5129	0.0000	21.4990
Unmitigated	17.3557	1.0257	0.0000	42.9981

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	85.5	17.3557	1.0257	0.0000	42.9981
<b>Total</b>		<b>17.3557</b>	<b>1.0257</b>	<b>0.0000</b>	<b>42.9981</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Place of Worship	42.75	8.6779	0.5129	0.0000	21.4990
<b>Total</b>		<b>8.6779</b>	<b>0.5129</b>	<b>0.0000</b>	<b>21.4990</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**11.0 Vegetation**

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Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Kindred Church**

**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Place of Worship	15.00	1000sqft	0.34	15,000.00	0
Other Non-Asphalt Surfaces	0.75	Acre	0.75	32,670.00	0
Parking Lot	1.85	Acre	1.85	80,586.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Anaheim Public Utilities				
<b>CO2 Intensity (lb/MW hr)</b>	1047.47	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - From APUD  
 Land Use - Building size estimated for painting  
 Parking lot for 3 lots to be paved  
 Non-asphalt surfaces are new plazas

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase -

Schedule by owner

Demo includes site prep for plazas and moving modulars

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment -

Demolition -

Grading -

Vehicle Trips - Trip rates based on Trip Generation letter

Energy Use - No gas service

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Trips and VMT -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	6.00	30.00

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	NumDays	220.00	100.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	T24NG	13.90	0.00
tblGrading	MaterialImported	0.00	2,600.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1543.28	1047.47
tblVehicleTrips	ST_TR	5.99	18.13
tblVehicleTrips	SU_TR	27.63	18.13
tblVehicleTrips	WD_TR	6.95	5.33

**2.0 Emissions Summary**

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Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2021	1.6470	18.0462	11.2532	0.0247	6.8635	0.8687	7.7142	3.4506	0.7992	4.2341			2,481.5327	0.5659	0.1229	2,532.2937
2022	17.2971	15.0369	12.2874	0.0245	6.8635	0.6682	7.5317	3.4506	0.6152	4.0658			2,458.6387	0.5652	0.1195	2,508.3852
<b>Maximum</b>	<b>17.2971</b>	<b>18.0462</b>	<b>12.2874</b>	<b>0.0247</b>	<b>6.8635</b>	<b>0.8687</b>	<b>7.7142</b>	<b>3.4506</b>	<b>0.7992</b>	<b>4.2341</b>			<b>2,481.5327</b>	<b>0.5659</b>	<b>0.1229</b>	<b>2,532.2937</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					
2021	1.6470	18.0462	11.2532	0.0247	3.2544	0.8687	4.1050	1.5977	0.7992	2.3811			2,481.5327	0.5659	0.1229	2,532.2937
2022	17.2971	15.0369	12.2874	0.0245	3.2544	0.6682	3.9225	1.5977	0.6152	2.2129			2,458.6387	0.5652	0.1195	2,508.3852
<b>Maximum</b>	<b>17.2971</b>	<b>18.0462</b>	<b>12.2874</b>	<b>0.0247</b>	<b>3.2544</b>	<b>0.8687</b>	<b>4.1050</b>	<b>1.5977</b>	<b>0.7992</b>	<b>2.3811</b>			<b>2,481.5327</b>	<b>0.5659</b>	<b>0.1229</b>	<b>2,532.2937</b>

## Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	52.58	0.00	47.35	53.70	0.00	44.65	0.00	0.00	0.00	0.00	0.00	0.00

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.3840	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.7119	0.6991	6.2637	0.0126	1.2211	0.0107	1.2318	0.3253	9.9400e-003	0.3352			1,280.0477	0.0949	0.0581	1,299.7246
<b>Total</b>	<b>1.0959</b>	<b>0.6992</b>	<b>6.2655</b>	<b>0.0126</b>	<b>1.2211</b>	<b>0.0107</b>	<b>1.2318</b>	<b>0.3253</b>	<b>9.9500e-003</b>	<b>0.3352</b>			<b>1,280.0516</b>	<b>0.0949</b>	<b>0.0581</b>	<b>1,299.7287</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	0.3840	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.7119	0.6991	6.2637	0.0126	1.2211	0.0107	1.2318	0.3253	9.9400e-003	0.3352			1,280.0477	0.0949	0.0581	1,299.7246
<b>Total</b>	<b>1.0959</b>	<b>0.6992</b>	<b>6.2655</b>	<b>0.0126</b>	<b>1.2211</b>	<b>0.0107</b>	<b>1.2318</b>	<b>0.3253</b>	<b>9.9500e-003</b>	<b>0.3352</b>			<b>1,280.0516</b>	<b>0.0949</b>	<b>0.0581</b>	<b>1,299.7287</b>



Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	10/4/2021	12/13/2021	5	50	
2	Grading	Grading	12/14/2021	1/25/2022	5	30	
3	Building Construction	Building Construction	1/26/2022	6/14/2022	5	100	
4	Paving	Paving	6/15/2022	6/28/2022	5	10	
5	Architectural Coating	Architectural Coating	6/29/2022	7/12/2022	5	10	

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

**Acres of Grading (Grading Phase): 15**

**Acres of Paving: 2.6**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 6,795 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	0	0.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	325.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	54.00	21.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2021**

**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					0.0179	0.0000	0.0179	2.7200e-003	0.0000	2.7200e-003			0.0000			0.0000
Off-Road	1.6082	16.6587	10.8185	0.0179		0.8678	0.8678		0.7984	0.7984			1,730.0524	0.5595		1,744.0408
<b>Total</b>	<b>1.6082</b>	<b>16.6587</b>	<b>10.8185</b>	<b>0.0179</b>	<b>0.0179</b>	<b>0.8678</b>	<b>0.8857</b>	<b>2.7200e-003</b>	<b>0.7984</b>	<b>0.8011</b>			<b>1,730.0524</b>	<b>0.5595</b>		<b>1,744.0408</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	5.3000e-004	0.0153	3.5300e-003	5.0000e-005	1.4000e-003	1.8000e-004	1.5800e-003	3.8000e-004	1.7000e-004	5.5000e-004			5.5948	2.9000e-004	8.9000e-004	5.8665
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
Worker	0.0376	0.0288	0.4312	1.0600e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304			106.6845	3.1500e-003	2.7300e-003	107.5760
<b>Total</b>	<b>0.0381</b>	<b>0.0440</b>	<b>0.4347</b>	<b>1.1100e-003</b>	<b>0.1132</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>0.0300</b>	<b>8.8000e-004</b>	<b>0.0309</b>			<b>112.2793</b>	<b>3.4400e-003</b>	<b>3.6200e-003</b>	<b>113.4425</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2021**

**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					8.0700e-003	0.0000	8.0700e-003	1.2200e-003	0.0000	1.2200e-003			0.0000			0.0000
Off-Road	1.6082	16.6587	10.8185	0.0179		0.8678	0.8678		0.7984	0.7984			1,730.0524	0.5595		1,744.0408
<b>Total</b>	<b>1.6082</b>	<b>16.6587</b>	<b>10.8185</b>	<b>0.0179</b>	<b>8.0700e-003</b>	<b>0.8678</b>	<b>0.8759</b>	<b>1.2200e-003</b>	<b>0.7984</b>	<b>0.7996</b>			<b>1,730.0524</b>	<b>0.5595</b>		<b>1,744.0408</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	5.3000e-004	0.0153	3.5300e-003	5.0000e-005	1.4000e-003	1.8000e-004	1.5800e-003	3.8000e-004	1.7000e-004	5.5000e-004			5.5948	2.9000e-004	8.9000e-004	5.8665
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
Worker	0.0376	0.0288	0.4312	1.0600e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304			106.6845	3.1500e-003	2.7300e-003	107.5760
<b>Total</b>	<b>0.0381</b>	<b>0.0440</b>	<b>0.4347</b>	<b>1.1100e-003</b>	<b>0.1132</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>0.0300</b>	<b>8.8000e-004</b>	<b>0.0309</b>			<b>112.2793</b>	<b>3.4400e-003</b>	<b>3.6200e-003</b>	<b>113.4425</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2021**

**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					6.5621	0.0000	6.5621	3.3690	0.0000	3.3690			0.0000			0.0000
Off-Road	1.5380	15.9478	9.9709	0.0167		0.8259	0.8259		0.7598	0.7598			1,617.2149	0.5230		1,630.2909
<b>Total</b>	<b>1.5380</b>	<b>15.9478</b>	<b>9.9709</b>	<b>0.0167</b>	<b>6.5621</b>	<b>0.8259</b>	<b>7.3880</b>	<b>3.3690</b>	<b>0.7598</b>	<b>4.1288</b>			<b>1,617.2149</b>	<b>0.5230</b>		<b>1,630.2909</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	0.0715	2.0697	0.4774	6.9300e-003	0.1896	0.0240	0.2136	0.0520	0.0230	0.0750			757.6334	0.0397	0.1201	794.4268
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
Worker	0.0376	0.0288	0.4312	1.0600e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304			106.6845	3.1500e-003	2.7300e-003	107.5760
<b>Total</b>	<b>0.1091</b>	<b>2.0984</b>	<b>0.9086</b>	<b>7.9900e-003</b>	<b>0.3014</b>	<b>0.0248</b>	<b>0.3262</b>	<b>0.0816</b>	<b>0.0237</b>	<b>0.1053</b>			<b>864.3178</b>	<b>0.0428</b>	<b>0.1229</b>	<b>902.0028</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2021**

**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					2.9530	0.0000	2.9530	1.5160	0.0000	1.5160			0.0000			0.0000
Off-Road	1.5380	15.9478	9.9709	0.0167		0.8259	0.8259		0.7598	0.7598			1,617.2149	0.5230		1,630.2909
<b>Total</b>	<b>1.5380</b>	<b>15.9478</b>	<b>9.9709</b>	<b>0.0167</b>	<b>2.9530</b>	<b>0.8259</b>	<b>3.7788</b>	<b>1.5160</b>	<b>0.7598</b>	<b>2.2758</b>			<b>1,617.2149</b>	<b>0.5230</b>		<b>1,630.2909</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	0.0715	2.0697	0.4774	6.9300e-003	0.1896	0.0240	0.2136	0.0520	0.0230	0.0750			757.6334	0.0397	0.1201	794.4268
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
Worker	0.0376	0.0288	0.4312	1.0600e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304			106.6845	3.1500e-003	2.7300e-003	107.5760
<b>Total</b>	<b>0.1091</b>	<b>2.0984</b>	<b>0.9086</b>	<b>7.9900e-003</b>	<b>0.3014</b>	<b>0.0248</b>	<b>0.3262</b>	<b>0.0816</b>	<b>0.0237</b>	<b>0.1053</b>			<b>864.3178</b>	<b>0.0428</b>	<b>0.1229</b>	<b>902.0028</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5621	0.0000	6.5621	3.3690	0.0000	3.3690			0.0000			0.0000
Off-Road	1.2695	13.1922	9.4566	0.0167		0.6539	0.6539		0.6016	0.6016			1,617.7876	0.5232		1,630.8682
<b>Total</b>	<b>1.2695</b>	<b>13.1922</b>	<b>9.4566</b>	<b>0.0167</b>	<b>6.5621</b>	<b>0.6539</b>	<b>7.2161</b>	<b>3.3690</b>	<b>0.6016</b>	<b>3.9706</b>			<b>1,617.7876</b>	<b>0.5232</b>		<b>1,630.8682</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	0.0505	1.8195	0.4242	6.7300e-003	0.1896	0.0135	0.2031	0.0520	0.0129	0.0649			737.5069	0.0392	0.1170	773.3567
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
Worker	0.0346	0.0253	0.3936	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303			103.3442	2.8200e-003	2.5000e-003	104.1603
<b>Total</b>	<b>0.0851</b>	<b>1.8447</b>	<b>0.8178</b>	<b>7.7500e-003</b>	<b>0.3014</b>	<b>0.0142</b>	<b>0.3156</b>	<b>0.0816</b>	<b>0.0136</b>	<b>0.0952</b>			<b>840.8511</b>	<b>0.0420</b>	<b>0.1195</b>	<b>877.5169</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9530	0.0000	2.9530	1.5160	0.0000	1.5160			0.0000			0.0000
Off-Road	1.2695	13.1922	9.4566	0.0167		0.6539	0.6539		0.6016	0.6016			1,617.7876	0.5232		1,630.8682
<b>Total</b>	<b>1.2695</b>	<b>13.1922</b>	<b>9.4566</b>	<b>0.0167</b>	<b>2.9530</b>	<b>0.6539</b>	<b>3.6069</b>	<b>1.5160</b>	<b>0.6016</b>	<b>2.1176</b>			<b>1,617.7876</b>	<b>0.5232</b>		<b>1,630.8682</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	0.0505	1.8195	0.4242	6.7300e-003	0.1896	0.0135	0.2031	0.0520	0.0129	0.0649			737.5069	0.0392	0.1170	773.3567
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
Worker	0.0346	0.0253	0.3936	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303			103.3442	2.8200e-003	2.5000e-003	104.1603
<b>Total</b>	<b>0.0851</b>	<b>1.8447</b>	<b>0.8178</b>	<b>7.7500e-003</b>	<b>0.3014</b>	<b>0.0142</b>	<b>0.3156</b>	<b>0.0816</b>	<b>0.0136</b>	<b>0.0952</b>			<b>840.8511</b>	<b>0.0420</b>	<b>0.1195</b>	<b>877.5169</b>



Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6201	6.6977	5.2493	0.0104		0.3089	0.3089		0.2842	0.2842			1,010.6888	0.3269		1,018.8607
<b>Total</b>	<b>0.6201</b>	<b>6.6977</b>	<b>5.2493</b>	<b>0.0104</b>		<b>0.3089</b>	<b>0.3089</b>		<b>0.2842</b>	<b>0.2842</b>			<b>1,010.6888</b>	<b>0.3269</b>		<b>1,018.8607</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
Vendor	0.0413	1.0287	0.3527	4.1100e-003	0.1345	9.8000e-003	0.1443	0.0387	9.3700e-003	0.0481			441.9694	0.0148	0.0637	461.3178
Worker	0.1868	0.1364	2.1253	5.5200e-003	0.6036	3.8600e-003	0.6075	0.1601	3.5600e-003	0.1636			558.0586	0.0152	0.0135	562.4654
<b>Total</b>	<b>0.2282</b>	<b>1.1651</b>	<b>2.4780</b>	<b>9.6300e-003</b>	<b>0.7381</b>	<b>0.0137</b>	<b>0.7518</b>	<b>0.1988</b>	<b>0.0129</b>	<b>0.2117</b>			<b>1,000.0280</b>	<b>0.0300</b>	<b>0.0772</b>	<b>1,023.7832</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 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	0.6201	6.6977	5.2493	0.0104		0.3089	0.3089		0.2842	0.2842			1,010.6888	0.3269		1,018.8607
<b>Total</b>	<b>0.6201</b>	<b>6.6977</b>	<b>5.2493</b>	<b>0.0104</b>		<b>0.3089</b>	<b>0.3089</b>		<b>0.2842</b>	<b>0.2842</b>			<b>1,010.6888</b>	<b>0.3269</b>		<b>1,018.8607</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
Vendor	0.0413	1.0287	0.3527	4.1100e-003	0.1345	9.8000e-003	0.1443	0.0387	9.3700e-003	0.0481			441.9694	0.0148	0.0637	461.3178
Worker	0.1868	0.1364	2.1253	5.5200e-003	0.6036	3.8600e-003	0.6075	0.1601	3.5600e-003	0.1636			558.0586	0.0152	0.0135	562.4654
<b>Total</b>	<b>0.2282</b>	<b>1.1651</b>	<b>2.4780</b>	<b>9.6300e-003</b>	<b>0.7381</b>	<b>0.0137</b>	<b>0.7518</b>	<b>0.1988</b>	<b>0.0129</b>	<b>0.2117</b>			<b>1,000.0280</b>	<b>0.0300</b>	<b>0.0772</b>	<b>1,023.7832</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500			1,709.689 2	0.5419		1,723.235 6
Paving	0.4847					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4259</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>			<b>1,709.689 2</b>	<b>0.5419</b>		<b>1,723.235 6</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
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
Worker	0.0519	0.0379	0.5904	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455			155.0163	4.2200e-003	3.7500e-003	156.2404
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5904</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>			<b>155.0163</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>156.2404</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500			1,709.689 2	0.5419		1,723.235 6
Paving	0.4847					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4259</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>			<b>1,709.689 2</b>	<b>0.5419</b>		<b>1,723.235 6</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
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
Worker	0.0519	0.0379	0.5904	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455			155.0163	4.2200e-003	3.7500e-003	156.2404
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5904</b>	<b>1.5300e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>			<b>155.0163</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>156.2404</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.0545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817			281.4481	0.0183		281.9062
<b>Total</b>	<b>17.2590</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>			<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
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
Worker	0.0381	0.0278	0.4329	1.1200e-003	0.1230	7.9000e-004	0.1237	0.0326	7.2000e-004	0.0333			113.6786	3.1000e-003	2.7500e-003	114.5763
<b>Total</b>	<b>0.0381</b>	<b>0.0278</b>	<b>0.4329</b>	<b>1.1200e-003</b>	<b>0.1230</b>	<b>7.9000e-004</b>	<b>0.1237</b>	<b>0.0326</b>	<b>7.2000e-004</b>	<b>0.0333</b>			<b>113.6786</b>	<b>3.1000e-003</b>	<b>2.7500e-003</b>	<b>114.5763</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.0545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817			281.4481	0.0183		281.9062
<b>Total</b>	<b>17.2590</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>			<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
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
Worker	0.0381	0.0278	0.4329	1.1200e-003	0.1230	7.9000e-004	0.1237	0.0326	7.2000e-004	0.0333			113.6786	3.1000e-003	2.7500e-003	114.5763
<b>Total</b>	<b>0.0381</b>	<b>0.0278</b>	<b>0.4329</b>	<b>1.1200e-003</b>	<b>0.1230</b>	<b>7.9000e-004</b>	<b>0.1237</b>	<b>0.0326</b>	<b>7.2000e-004</b>	<b>0.0333</b>			<b>113.6786</b>	<b>3.1000e-003</b>	<b>2.7500e-003</b>	<b>114.5763</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.7119	0.6991	6.2637	0.0126	1.2211	0.0107	1.2318	0.3253	9.9400e-003	0.3352			1,280.0477	0.0949	0.0581	1,299.7246
Unmitigated	0.7119	0.6991	6.2637	0.0126	1.2211	0.0107	1.2318	0.3253	9.9400e-003	0.3352			1,280.0477	0.0949	0.0581	1,299.7246

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Place of Worship	79.95	271.95	271.95	287,515	287,515
Total	79.95	271.95	271.95	287,515	287,515

**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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Place of Worship	16.60	8.40	6.90	0.00	95.00	5.00	64	25	11

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Place of Worship	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000



Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

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

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Place of Worship	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Place of Worship	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3840	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
Unmitigated	0.3840	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
<b>Total</b>	<b>0.3840</b>	<b>2.0000e-005</b>	<b>1.8000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>3.8500e-003</b>	<b>1.0000e-005</b>		<b>4.1100e-003</b>

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
<b>Total</b>	<b>0.3840</b>	<b>2.0000e-005</b>	<b>1.8000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>3.8500e-003</b>	<b>1.0000e-005</b>		<b>4.1100e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Kindred Church - Los Angeles-South Coast County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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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Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**Kindred Church**

**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Place of Worship	15.00	1000sqft	0.34	15,000.00	0
Other Non-Asphalt Surfaces	0.75	Acre	0.75	32,670.00	0
Parking Lot	1.85	Acre	1.85	80,586.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Anaheim Public Utilities				
<b>CO2 Intensity (lb/MWhr)</b>	1047.47	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - From APUD  
 Land Use - Building size estimated for painting  
 Parking lot for 3 lots to be paved  
 Non-asphalt surfaces are new plazas

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Construction Phase -

Schedule by owner

Demo includes site prep for plazas and moving modulars

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment - Off-road equipment by Applicant

Off-road Equipment -

Demolition -

Grading -

Vehicle Trips - Trip rates based on Trip Generation letter

Energy Use - No gas service

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Trips and VMT -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	6.00	30.00

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblConstructionPhase	NumDays	220.00	100.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	T24NG	13.90	0.00
tblGrading	MaterialImported	0.00	2,600.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	1543.28	1047.47
tblVehicleTrips	ST_TR	5.99	18.13
tblVehicleTrips	SU_TR	27.63	18.13
tblVehicleTrips	WD_TR	6.95	5.33

**2.0 Emissions Summary**

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Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2021	1.6488	18.1312	11.2174	0.0246	6.8635	0.8687	7.7142	3.4506	0.7992	4.2341			2,475.9591	0.5658	0.1231	2,526.7808
2022	17.2998	15.1134	12.2390	0.0244	6.8635	0.6682	7.5317	3.4506	0.6152	4.0658			2,453.3910	0.5652	0.1197	2,503.1992
<b>Maximum</b>	<b>17.2998</b>	<b>18.1312</b>	<b>12.2390</b>	<b>0.0246</b>	<b>6.8635</b>	<b>0.8687</b>	<b>7.7142</b>	<b>3.4506</b>	<b>0.7992</b>	<b>4.2341</b>			<b>2,475.9591</b>	<b>0.5658</b>	<b>0.1231</b>	<b>2,526.7808</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					
2021	1.6488	18.1312	11.2174	0.0246	3.2544	0.8687	4.1050	1.5977	0.7992	2.3812			2,475.9591	0.5658	0.1231	2,526.7808
2022	17.2998	15.1134	12.2390	0.0244	3.2544	0.6682	3.9226	1.5977	0.6152	2.2129			2,453.3910	0.5652	0.1197	2,503.1992
<b>Maximum</b>	<b>17.2998</b>	<b>18.1312</b>	<b>12.2390</b>	<b>0.0246</b>	<b>3.2544</b>	<b>0.8687</b>	<b>4.1050</b>	<b>1.5977</b>	<b>0.7992</b>	<b>2.3812</b>			<b>2,475.9591</b>	<b>0.5658</b>	<b>0.1231</b>	<b>2,526.7808</b>

## Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	52.58	0.00	47.35	53.70	0.00	44.65	0.00	0.00	0.00	0.00	0.00	0.00

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.3840	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.6957	0.7534	6.2015	0.0120	1.2211	0.0107	1.2318	0.3253	9.9500e-003	0.3352			1,225.9661	0.0989	0.0608	1,246.5576
<b>Total</b>	<b>1.0797</b>	<b>0.7534</b>	<b>6.2033</b>	<b>0.0120</b>	<b>1.2211</b>	<b>0.0107</b>	<b>1.2318</b>	<b>0.3253</b>	<b>9.9600e-003</b>	<b>0.3352</b>			<b>1,225.9699</b>	<b>0.0989</b>	<b>0.0608</b>	<b>1,246.5617</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	0.3840	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.6957	0.7534	6.2015	0.0120	1.2211	0.0107	1.2318	0.3253	9.9500e-003	0.3352			1,225.9661	0.0989	0.0608	1,246.5576
<b>Total</b>	<b>1.0797</b>	<b>0.7534</b>	<b>6.2033</b>	<b>0.0120</b>	<b>1.2211</b>	<b>0.0107</b>	<b>1.2318</b>	<b>0.3253</b>	<b>9.9600e-003</b>	<b>0.3352</b>			<b>1,225.9699</b>	<b>0.0989</b>	<b>0.0608</b>	<b>1,246.5617</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	10/4/2021	12/13/2021	5	50	
2	Grading	Grading	12/14/2021	1/25/2022	5	30	
3	Building Construction	Building Construction	1/26/2022	6/14/2022	5	100	
4	Paving	Paving	6/15/2022	6/28/2022	5	10	
5	Architectural Coating	Architectural Coating	6/29/2022	7/12/2022	5	10	

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

**Acres of Grading (Grading Phase): 15**

**Acres of Paving: 2.6**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 22,500; Non-Residential Outdoor: 7,500; Striped Parking Area: 6,795 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	0.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	0	0.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	7.00	97	0.37

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	0	0.00	89	0.20
Building Construction	Generator Sets	0	0.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	0	0.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	4.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	325.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	54.00	21.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2021**

**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					0.0179	0.0000	0.0179	2.7200e-003	0.0000	2.7200e-003			0.0000			0.0000
Off-Road	1.6082	16.6587	10.8185	0.0179		0.8678	0.8678		0.7984	0.7984			1,730.0524	0.5595		1,744.0408
<b>Total</b>	<b>1.6082</b>	<b>16.6587</b>	<b>10.8185</b>	<b>0.0179</b>	<b>0.0179</b>	<b>0.8678</b>	<b>0.8857</b>	<b>2.7200e-003</b>	<b>0.7984</b>	<b>0.8011</b>			<b>1,730.0524</b>	<b>0.5595</b>		<b>1,744.0408</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	5.2000e-004	0.0159	3.5900e-003	5.0000e-005	1.4000e-003	1.8000e-004	1.5800e-003	3.8000e-004	1.7000e-004	5.5000e-004			5.5955	2.9000e-004	8.9000e-004	5.8672
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
Worker	0.0401	0.0318	0.3953	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304			101.0263	3.1800e-003	2.9200e-003	101.9747
<b>Total</b>	<b>0.0406</b>	<b>0.0477</b>	<b>0.3989</b>	<b>1.0500e-003</b>	<b>0.1132</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>0.0300</b>	<b>8.8000e-004</b>	<b>0.0309</b>			<b>106.6218</b>	<b>3.4700e-003</b>	<b>3.8100e-003</b>	<b>107.8419</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.2 Demolition - 2021**

**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					8.0700e-003	0.0000	8.0700e-003	1.2200e-003	0.0000	1.2200e-003			0.0000			0.0000
Off-Road	1.6082	16.6587	10.8185	0.0179		0.8678	0.8678		0.7984	0.7984			1,730.0524	0.5595		1,744.0408
<b>Total</b>	<b>1.6082</b>	<b>16.6587</b>	<b>10.8185</b>	<b>0.0179</b>	<b>8.0700e-003</b>	<b>0.8678</b>	<b>0.8759</b>	<b>1.2200e-003</b>	<b>0.7984</b>	<b>0.7996</b>			<b>1,730.0524</b>	<b>0.5595</b>		<b>1,744.0408</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	5.2000e-004	0.0159	3.5900e-003	5.0000e-005	1.4000e-003	1.8000e-004	1.5800e-003	3.8000e-004	1.7000e-004	5.5000e-004			5.5955	2.9000e-004	8.9000e-004	5.8672
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
Worker	0.0401	0.0318	0.3953	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304			101.0263	3.1800e-003	2.9200e-003	101.9747
<b>Total</b>	<b>0.0406</b>	<b>0.0477</b>	<b>0.3989</b>	<b>1.0500e-003</b>	<b>0.1132</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>0.0300</b>	<b>8.8000e-004</b>	<b>0.0309</b>			<b>106.6218</b>	<b>3.4700e-003</b>	<b>3.8100e-003</b>	<b>107.8419</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2021**

**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					6.5621	0.0000	6.5621	3.3690	0.0000	3.3690			0.0000			0.0000
Off-Road	1.5380	15.9478	9.9709	0.0167		0.8259	0.8259		0.7598	0.7598			1,617.2149	0.5230		1,630.2909
<b>Total</b>	<b>1.5380</b>	<b>15.9478</b>	<b>9.9709</b>	<b>0.0167</b>	<b>6.5621</b>	<b>0.8259</b>	<b>7.3880</b>	<b>3.3690</b>	<b>0.7598</b>	<b>4.1288</b>			<b>1,617.2149</b>	<b>0.5230</b>		<b>1,630.2909</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	0.0704	2.1517	0.4856	6.9300e-003	0.1896	0.0240	0.2137	0.0520	0.0230	0.0750			757.7179	0.0396	0.1202	794.5152
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
Worker	0.0401	0.0318	0.3953	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304			101.0263	3.1800e-003	2.9200e-003	101.9747
<b>Total</b>	<b>0.1105</b>	<b>2.1834</b>	<b>0.8809</b>	<b>7.9300e-003</b>	<b>0.3014</b>	<b>0.0248</b>	<b>0.3262</b>	<b>0.0816</b>	<b>0.0237</b>	<b>0.1053</b>			<b>858.7443</b>	<b>0.0428</b>	<b>0.1231</b>	<b>896.4899</b>



Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2021**

**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					2.9530	0.0000	2.9530	1.5160	0.0000	1.5160			0.0000			0.0000
Off-Road	1.5380	15.9478	9.9709	0.0167		0.8259	0.8259		0.7598	0.7598			1,617.2149	0.5230		1,630.2909
<b>Total</b>	<b>1.5380</b>	<b>15.9478</b>	<b>9.9709</b>	<b>0.0167</b>	<b>2.9530</b>	<b>0.8259</b>	<b>3.7788</b>	<b>1.5160</b>	<b>0.7598</b>	<b>2.2758</b>			<b>1,617.2149</b>	<b>0.5230</b>		<b>1,630.2909</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	0.0704	2.1517	0.4856	6.9300e-003	0.1896	0.0240	0.2137	0.0520	0.0230	0.0750			757.7179	0.0396	0.1202	794.5152
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
Worker	0.0401	0.0318	0.3953	1.0000e-003	0.1118	7.7000e-004	0.1125	0.0296	7.1000e-004	0.0304			101.0263	3.1800e-003	2.9200e-003	101.9747
<b>Total</b>	<b>0.1105</b>	<b>2.1834</b>	<b>0.8809</b>	<b>7.9300e-003</b>	<b>0.3014</b>	<b>0.0248</b>	<b>0.3262</b>	<b>0.0816</b>	<b>0.0237</b>	<b>0.1053</b>			<b>858.7443</b>	<b>0.0428</b>	<b>0.1231</b>	<b>896.4899</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5621	0.0000	6.5621	3.3690	0.0000	3.3690			0.0000			0.0000
Off-Road	1.2695	13.1922	9.4566	0.0167		0.6539	0.6539		0.6016	0.6016			1,617.7876	0.5232		1,630.8682
<b>Total</b>	<b>1.2695</b>	<b>13.1922</b>	<b>9.4566</b>	<b>0.0167</b>	<b>6.5621</b>	<b>0.6539</b>	<b>7.2161</b>	<b>3.3690</b>	<b>0.6016</b>	<b>3.9706</b>			<b>1,617.7876</b>	<b>0.5232</b>		<b>1,630.8682</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	0.0493	1.8933	0.4317	6.7300e-003	0.1896	0.0136	0.2032	0.0520	0.0130	0.0650			737.7231	0.0391	0.1171	773.5826
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
Worker	0.0370	0.0279	0.3614	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303			97.8803	2.8500e-003	2.6700e-003	98.7483
<b>Total</b>	<b>0.0863</b>	<b>1.9212</b>	<b>0.7931</b>	<b>7.7000e-003</b>	<b>0.3014</b>	<b>0.0143</b>	<b>0.3157</b>	<b>0.0816</b>	<b>0.0136</b>	<b>0.0953</b>			<b>835.6034</b>	<b>0.0420</b>	<b>0.1197</b>	<b>872.3309</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.3 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9530	0.0000	2.9530	1.5160	0.0000	1.5160			0.0000			0.0000
Off-Road	1.2695	13.1922	9.4566	0.0167		0.6539	0.6539		0.6016	0.6016			1,617.7876	0.5232		1,630.8682
<b>Total</b>	<b>1.2695</b>	<b>13.1922</b>	<b>9.4566</b>	<b>0.0167</b>	<b>2.9530</b>	<b>0.6539</b>	<b>3.6069</b>	<b>1.5160</b>	<b>0.6016</b>	<b>2.1176</b>			<b>1,617.7876</b>	<b>0.5232</b>		<b>1,630.8682</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	0.0493	1.8933	0.4317	6.7300e-003	0.1896	0.0136	0.2032	0.0520	0.0130	0.0650			737.7231	0.0391	0.1171	773.5826
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
Worker	0.0370	0.0279	0.3614	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303			97.8803	2.8500e-003	2.6700e-003	98.7483
<b>Total</b>	<b>0.0863</b>	<b>1.9212</b>	<b>0.7931</b>	<b>7.7000e-003</b>	<b>0.3014</b>	<b>0.0143</b>	<b>0.3157</b>	<b>0.0816</b>	<b>0.0136</b>	<b>0.0953</b>			<b>835.6034</b>	<b>0.0420</b>	<b>0.1197</b>	<b>872.3309</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6201	6.6977	5.2493	0.0104		0.3089	0.3089		0.2842	0.2842			1,010.6888	0.3269		1,018.8607
<b>Total</b>	<b>0.6201</b>	<b>6.6977</b>	<b>5.2493</b>	<b>0.0104</b>		<b>0.3089</b>	<b>0.3089</b>		<b>0.2842</b>	<b>0.2842</b>			<b>1,010.6888</b>	<b>0.3269</b>		<b>1,018.8607</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
Vendor	0.0408	1.0711	0.3649	4.1100e-003	0.1345	9.8300e-003	0.1444	0.0387	9.4100e-003	0.0481			442.1354	0.0147	0.0638	461.5071
Worker	0.2000	0.1507	1.9514	5.2300e-003	0.6036	3.8600e-003	0.6075	0.1601	3.5600e-003	0.1636			528.5537	0.0154	0.0144	533.2411
<b>Total</b>	<b>0.2408</b>	<b>1.2218</b>	<b>2.3163</b>	<b>9.3400e-003</b>	<b>0.7381</b>	<b>0.0137</b>	<b>0.7518</b>	<b>0.1988</b>	<b>0.0130</b>	<b>0.2118</b>			<b>970.6891</b>	<b>0.0301</b>	<b>0.0782</b>	<b>994.7482</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.4 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	0.6201	6.6977	5.2493	0.0104		0.3089	0.3089		0.2842	0.2842			1,010.6888	0.3269		1,018.8607
<b>Total</b>	<b>0.6201</b>	<b>6.6977</b>	<b>5.2493</b>	<b>0.0104</b>		<b>0.3089</b>	<b>0.3089</b>		<b>0.2842</b>	<b>0.2842</b>			<b>1,010.6888</b>	<b>0.3269</b>		<b>1,018.8607</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
Vendor	0.0408	1.0711	0.3649	4.1100e-003	0.1345	9.8300e-003	0.1444	0.0387	9.4100e-003	0.0481			442.1354	0.0147	0.0638	461.5071
Worker	0.2000	0.1507	1.9514	5.2300e-003	0.6036	3.8600e-003	0.6075	0.1601	3.5600e-003	0.1636			528.5537	0.0154	0.0144	533.2411
<b>Total</b>	<b>0.2408</b>	<b>1.2218</b>	<b>2.3163</b>	<b>9.3400e-003</b>	<b>0.7381</b>	<b>0.0137</b>	<b>0.7518</b>	<b>0.1988</b>	<b>0.0130</b>	<b>0.2118</b>			<b>970.6891</b>	<b>0.0301</b>	<b>0.0782</b>	<b>994.7482</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500			1,709.6892	0.5419		1,723.2356
Paving	0.4847					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4259</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>			<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</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
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
Worker	0.0556	0.0419	0.5421	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455			146.8205	4.2700e-003	4.0100e-003	148.1225
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5421</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>			<b>146.8205</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>148.1225</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.5 Paving - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500			1,709.6892	0.5419		1,723.2356
Paving	0.4847					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4259</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>			<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</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
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
Worker	0.0556	0.0419	0.5421	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455			146.8205	4.2700e-003	4.0100e-003	148.1225
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5421</b>	<b>1.4500e-003</b>	<b>0.1677</b>	<b>1.0700e-003</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.9000e-004</b>	<b>0.0455</b>			<b>146.8205</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>148.1225</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.0545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817			281.4481	0.0183		281.9062
<b>Total</b>	<b>17.2590</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>			<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
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
Worker	0.0407	0.0307	0.3975	1.0700e-003	0.1230	7.9000e-004	0.1237	0.0326	7.2000e-004	0.0333			107.6684	3.1300e-003	2.9400e-003	108.6232
<b>Total</b>	<b>0.0407</b>	<b>0.0307</b>	<b>0.3975</b>	<b>1.0700e-003</b>	<b>0.1230</b>	<b>7.9000e-004</b>	<b>0.1237</b>	<b>0.0326</b>	<b>7.2000e-004</b>	<b>0.0333</b>			<b>107.6684</b>	<b>3.1300e-003</b>	<b>2.9400e-003</b>	<b>108.6232</b>



Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**3.6 Architectural Coating - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.0545					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817			281.4481	0.0183		281.9062
<b>Total</b>	<b>17.2590</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>			<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</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
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
Worker	0.0407	0.0307	0.3975	1.0700e-003	0.1230	7.9000e-004	0.1237	0.0326	7.2000e-004	0.0333			107.6684	3.1300e-003	2.9400e-003	108.6232
<b>Total</b>	<b>0.0407</b>	<b>0.0307</b>	<b>0.3975</b>	<b>1.0700e-003</b>	<b>0.1230</b>	<b>7.9000e-004</b>	<b>0.1237</b>	<b>0.0326</b>	<b>7.2000e-004</b>	<b>0.0333</b>			<b>107.6684</b>	<b>3.1300e-003</b>	<b>2.9400e-003</b>	<b>108.6232</b>

Kindred Church - Los Angeles-South Coast County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.6957	0.7534	6.2015	0.0120	1.2211	0.0107	1.2318	0.3253	9.9500e-003	0.3352			1,225.9661	0.0989	0.0608	1,246.5576
Unmitigated	0.6957	0.7534	6.2015	0.0120	1.2211	0.0107	1.2318	0.3253	9.9500e-003	0.3352			1,225.9661	0.0989	0.0608	1,246.5576

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Place of Worship	79.95	271.95	271.95	287,515	287,515
Total	79.95	271.95	271.95	287,515	287,515

**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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Place of Worship	16.60	8.40	6.90	0.00	95.00	5.00	64	25	11

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Parking Lot	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Place of Worship	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Place of Worship	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Place of Worship	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3840	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
Unmitigated	0.3840	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
<b>Total</b>	<b>0.3840</b>	<b>2.0000e-005</b>	<b>1.8000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>3.8500e-003</b>	<b>1.0000e-005</b>		<b>4.1100e-003</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0467					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3371					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			3.8500e-003	1.0000e-005		4.1100e-003
<b>Total</b>	<b>0.3840</b>	<b>2.0000e-005</b>	<b>1.8000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>			<b>3.8500e-003</b>	<b>1.0000e-005</b>		<b>4.1100e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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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