

# **Appendix B**

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Air Quality and GHG Modeling Data



Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

**Bellflower HE Existing Commercial - Operational**

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

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	723.76	1000sqft	42.28	723,760.00	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>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Acreage adjusted based on existing lot square footage

Energy Use - Historical Data used

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	16.62	42.28

**2.0 Emissions Summary**

**2.2 Overall Operational**

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

**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	2.9516	9.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0180	0.0180	5.0000e-005	0.0000	0.0192
Energy	7.1000e-003	0.0646	0.0542	3.9000e-004		4.9100e-003	4.9100e-003		4.9100e-003	4.9100e-003	0.0000	2,118.8487	2,118.8487	0.1743	0.0223	2,129.8345
Mobile	13.4945	15.5055	119.6209	0.2207	20.9944	0.2312	21.2256	5.6010	0.2161	5.8171	0.0000	20,445.9416	20,445.9416	1.7200	1.0558	20,803.5533
Waste						0.0000	0.0000		0.0000	0.0000	154.2630	0.0000	154.2630	9.1167	0.0000	382.1800
Water						0.0000	0.0000		0.0000	0.0000	17.0082	188.5396	205.5478	1.7628	0.0432	262.4850
<b>Total</b>	<b>16.4532</b>	<b>15.5702</b>	<b>119.6844</b>	<b>0.2211</b>	<b>20.9944</b>	<b>0.2362</b>	<b>21.2306</b>	<b>5.6010</b>	<b>0.2210</b>	<b>5.8220</b>	<b>171.2712</b>	<b>22,753.3478</b>	<b>22,924.6190</b>	<b>12.7738</b>	<b>1.1212</b>	<b>23,578.0721</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	tons/yr										MT/yr					
Area	2.9516	9.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0180	0.0180	5.0000e-005	0.0000	0.0192
Energy	7.1000e-003	0.0646	0.0542	3.9000e-004		4.9100e-003	4.9100e-003		4.9100e-003	4.9100e-003	0.0000	2,118.8487	2,118.8487	0.1743	0.0223	2,129.8345
Mobile	13.4945	15.5055	119.6209	0.2207	20.9944	0.2312	21.2256	5.6010	0.2161	5.8171	0.0000	20,445.9416	20,445.9416	1.7200	1.0558	20,803.5533

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

Waste						0.0000	0.0000		0.0000	0.0000	154.2630	0.0000	154.2630	9.1167	0.0000	382.1800
Water						0.0000	0.0000		0.0000	0.0000	17.0082	188.5396	205.5478	1.7628	0.0432	262.4850
<b>Total</b>	<b>16.4532</b>	<b>15.5702</b>	<b>119.6844</b>	<b>0.2211</b>	<b>20.9944</b>	<b>0.2362</b>	<b>21.2306</b>	<b>5.6010</b>	<b>0.2210</b>	<b>5.8220</b>	<b>171.2712</b>	<b>22,753.3478</b>	<b>22,924.6190</b>	<b>12.7738</b>	<b>1.1212</b>	<b>23,578.0721</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	13.4945	15.5055	119.6209	0.2207	20.9944	0.2312	21.2256	5.6010	0.2161	5.8171	0.0000	20,445.9416	20,445.9416	1.7200	1.0558	20,803.5533
Unmitigated	13.4945	15.5055	119.6209	0.2207	20.9944	0.2312	21.2256	5.6010	0.2161	5.8171	0.0000	20,445.9416	20,445.9416	1.7200	1.0558	20,803.5533

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	32,077.04	30,426.87	14,786.42	55,881,533	55,881,533
Total	32,077.04	30,426.87	14,786.42	55,881,533	55,881,533

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.0034

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,048.5556	2,048.5556	0.1729	0.0210	2,059.1237

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

Electricity Unmitigated						0.0000	0.0000			0.0000	0.0000	0.0000	2,048.5556	2,048.5556	0.1729	0.0210	2,059.1237
NaturalGas Mitigated	7.1000e-003	0.0646	0.0542	3.9000e-004		4.9100e-003	4.9100e-003			4.9100e-003	4.9100e-003	0.0000	70.2931	70.2931	1.3500e-003	1.2900e-003	70.7108
NaturalGas Unmitigated	7.1000e-003	0.0646	0.0542	3.9000e-004		4.9100e-003	4.9100e-003			4.9100e-003	4.9100e-003	0.0000	70.2931	70.2931	1.3500e-003	1.2900e-003	70.7108

**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					
Strip Mall	1.31724e+006	7.1000e-003	0.0646	0.0542	3.9000e-004		4.9100e-003	4.9100e-003		4.9100e-003	4.9100e-003	0.0000	70.2931	70.2931	1.3500e-003	1.2900e-003	70.7108
<b>Total</b>		<b>7.1000e-003</b>	<b>0.0646</b>	<b>0.0542</b>	<b>3.9000e-004</b>		<b>4.9100e-003</b>	<b>4.9100e-003</b>		<b>4.9100e-003</b>	<b>4.9100e-003</b>	<b>0.0000</b>	<b>70.2931</b>	<b>70.2931</b>	<b>1.3500e-003</b>	<b>1.2900e-003</b>	<b>70.7108</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Strip Mall	1.31724e+006	7.1000e-003	0.0646	0.0542	3.9000e-004		4.9100e-003	4.9100e-003		4.9100e-003	4.9100e-003	0.0000	70.2931	70.2931	1.3500e-003	1.2900e-003	70.7108

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

Total		7.1000e-003	0.0646	0.0542	3.9000e-004		4.9100e-003	4.9100e-003		4.9100e-003	4.9100e-003	0.0000	70.2931	70.2931	1.3500e-003	1.2900e-003	70.7108
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**5.3 Energy by Land Use - Electricity**

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.15512e+07	2,048.5556	0.1729	0.0210	2,059.1237
<b>Total</b>		<b>2,048.5556</b>	<b>0.1729</b>	<b>0.0210</b>	<b>2,059.1237</b>

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	1.15512e+07	2,048.5556	0.1729	0.0210	2,059.1237
<b>Total</b>		<b>2,048.5556</b>	<b>0.1729</b>	<b>0.0210</b>	<b>2,059.1237</b>



Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9516	9.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0180	0.0180	5.0000e-005	0.0000	0.0192
Unmitigated	2.9516	9.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0180	0.0180	5.0000e-005	0.0000	0.0192

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.7000e-004	9.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0180	0.0180	5.0000e-005	0.0000	0.0192

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

<b>Total</b>	2.9516	9.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0180	0.0180	5.0000e-005	0.0000	0.0192
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**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3355					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.6153					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.7000e-004	9.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0180	0.0180	5.0000e-005	0.0000	0.0192
<b>Total</b>	<b>2.9516</b>	<b>9.0000e-005</b>	<b>9.2700e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0180</b>	<b>0.0180</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0192</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

Category	MT/yr			
Mitigated	205.5478	1.7628	0.0432	262.4850
Unmitigated	205.5478	1.7628	0.0432	262.4850

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	53.6107 / 32.8582	205.5478	1.7628	0.0432	262.4850
<b>Total</b>		<b>205.5478</b>	<b>1.7628</b>	<b>0.0432</b>	<b>262.4850</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	53.6107 / 32.8582	205.5478	1.7628	0.0432	262.4850

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

Total		205.5478	1.7628	0.0432	262.4850
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**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	154.2630	9.1167	0.0000	382.1800
Unmitigated	154.2630	9.1167	0.0000	382.1800

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	759.95	154.2630	9.1167	0.0000	382.1800

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

Total		154.2630	9.1167	0.0000	382.1800
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**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	759.95	154.2630	9.1167	0.0000	382.1800
<b>Total</b>		<b>154.2630</b>	<b>9.1167</b>	<b>0.0000</b>	<b>382.1800</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**

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Annual

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

Equipment Type	Number
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**11.0 Vegetation**

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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Summer

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

**Bellflower HE Existing Commercial - Operational**

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

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	723.76	1000sqft	42.28	723,760.00	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>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Acreage adjusted based on existing lot square footage

Energy Use - Historical Data used

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	16.62	42.28

**2.0 Emissions Summary**

**2.2 Overall Operational**

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Summer

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

**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	16.1755	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689
Energy	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
Mobile	84.7905	85.4165	718.9715	1.3689	128.4862	1.3884	129.8746	34.2245	1.2977	35.5222		139,729.5056	139,729.5056	10.9563	6.6384	141,981.6706
<b>Total</b>	<b>101.0049</b>	<b>85.7710</b>	<b>719.3429</b>	<b>1.3710</b>	<b>128.4862</b>	<b>1.4156</b>	<b>129.9017</b>	<b>34.2245</b>	<b>1.3248</b>	<b>35.5494</b>		<b>140,154.2388</b>	<b>140,154.2388</b>	<b>10.9649</b>	<b>6.6462</b>	<b>142,408.9373</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	16.1755	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689
Energy	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
Mobile	84.7905	85.4165	718.9715	1.3689	128.4862	1.3884	129.8746	34.2245	1.2977	35.5222		139,729.5056	139,729.5056	10.9563	6.6384	141,981.6706
<b>Total</b>	<b>101.0049</b>	<b>85.7710</b>	<b>719.3429</b>	<b>1.3710</b>	<b>128.4862</b>	<b>1.4156</b>	<b>129.9017</b>	<b>34.2245</b>	<b>1.3248</b>	<b>35.5494</b>		<b>140,154.2388</b>	<b>140,154.2388</b>	<b>10.9649</b>	<b>6.6462</b>	<b>142,408.9373</b>



Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Summer

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

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

**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	84.7905	85.4165	718.9715	1.3689	128.4862	1.3884	129.8746	34.2245	1.2977	35.5222	139,729.505	139,729.505	10.9563	6.6384	141,981.670	
Unmitigated	84.7905	85.4165	718.9715	1.3689	128.4862	1.3884	129.8746	34.2245	1.2977	35.5222	139,729.505	139,729.505	10.9563	6.6384	141,981.670	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	32,077.04	30,426.87	14,786.42	55,881,533	55,881,533
Total	32,077.04	30,426.87	14,786.42	55,881,533	55,881,533

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Summer

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.0034

**5.0 Energy Detail**

Historical Energy Use: Y

**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	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
NaturalGas Unmitigated	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978

**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
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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Summer

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

Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3608.89	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
<b>Total</b>		<b>0.0389</b>	<b>0.3538</b>	<b>0.2972</b>	<b>2.1200e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>		<b>424.5748</b>	<b>424.5748</b>	<b>8.1400e-003</b>	<b>7.7800e-003</b>	<b>427.0978</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3.60889	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
<b>Total</b>		<b>0.0389</b>	<b>0.3538</b>	<b>0.2972</b>	<b>2.1200e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>		<b>424.5748</b>	<b>424.5748</b>	<b>8.1400e-003</b>	<b>7.7800e-003</b>	<b>427.0978</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Summer

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

Category	lb/day										lb/day					
Mitigated	16.1755	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689
Unmitigated	16.1755	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689

**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	1.8382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.3305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.9300e-003	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004			0.1584	0.1584	4.2000e-004	0.1689
<b>Total</b>	<b>16.1755</b>	<b>6.8000e-004</b>	<b>0.0742</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>			<b>0.1584</b>	<b>0.1584</b>	<b>4.2000e-004</b>	<b>0.1689</b>

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
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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Summer

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

SubCategory	lb/day								lb/day						
Architectural Coating	1.8382					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Consumer Products	14.3305					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	6.9300e-003	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004	0.1689
<b>Total</b>	<b>16.1755</b>	<b>6.8000e-004</b>	<b>0.0742</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>0.1584</b>	<b>0.1584</b>	<b>4.2000e-004</b>	<b>0.1689</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**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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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Summer

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Winter

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

**Bellflower HE Existing Commercial - Operational**

Los Angeles-South Coast County, Winter

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	723.76	1000sqft	42.28	723,760.00	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>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Acreage adjusted based on existing lot square footage

Energy Use - Historical Data used

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	16.62	42.28

**2.0 Emissions Summary**

**2.2 Overall Operational**

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Winter

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

**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	16.1755	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689
Energy	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
Mobile	82.8552	91.9172	713.4864	1.3105	128.4862	1.3900	129.8761	34.2245	1.2992	35.5237		133,811.5202	133,811.5202	11.4682	6.9588	136,171.9601
<b>Total</b>	<b>99.0696</b>	<b>92.2717</b>	<b>713.8578</b>	<b>1.3126</b>	<b>128.4862</b>	<b>1.4172</b>	<b>129.9033</b>	<b>34.2245</b>	<b>1.3263</b>	<b>35.5509</b>		<b>134,236.2533</b>	<b>134,236.2533</b>	<b>11.4768</b>	<b>6.9666</b>	<b>136,599.2268</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	16.1755	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689
Energy	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
Mobile	82.8552	91.9172	713.4864	1.3105	128.4862	1.3900	129.8761	34.2245	1.2992	35.5237		133,811.5202	133,811.5202	11.4682	6.9588	136,171.9601
<b>Total</b>	<b>99.0696</b>	<b>92.2717</b>	<b>713.8578</b>	<b>1.3126</b>	<b>128.4862</b>	<b>1.4172</b>	<b>129.9033</b>	<b>34.2245</b>	<b>1.3263</b>	<b>35.5509</b>		<b>134,236.2533</b>	<b>134,236.2533</b>	<b>11.4768</b>	<b>6.9666</b>	<b>136,599.2268</b>



Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Winter

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

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

**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	82.8552	91.9172	713.4864	1.3105	128.4862	1.3900	129.8761	34.2245	1.2992	35.5237	133,811.520	133,811.520	11.4682	6.9588	136,171.960	
Unmitigated	82.8552	91.9172	713.4864	1.3105	128.4862	1.3900	129.8761	34.2245	1.2992	35.5237	133,811.520	133,811.520	11.4682	6.9588	136,171.960	

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	32,077.04	30,426.87	14,786.42	55,881,533	55,881,533
Total	32,077.04	30,426.87	14,786.42	55,881,533	55,881,533

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Winter

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

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.0034

**5.0 Energy Detail**

Historical Energy Use: Y

**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	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
NaturalGas Unmitigated	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978

**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
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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Winter

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

Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3608.89	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
<b>Total</b>		<b>0.0389</b>	<b>0.3538</b>	<b>0.2972</b>	<b>2.1200e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>		<b>424.5748</b>	<b>424.5748</b>	<b>8.1400e-003</b>	<b>7.7800e-003</b>	<b>427.0978</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	3.60889	0.0389	0.3538	0.2972	2.1200e-003		0.0269	0.0269		0.0269	0.0269		424.5748	424.5748	8.1400e-003	7.7800e-003	427.0978
<b>Total</b>		<b>0.0389</b>	<b>0.3538</b>	<b>0.2972</b>	<b>2.1200e-003</b>		<b>0.0269</b>	<b>0.0269</b>		<b>0.0269</b>	<b>0.0269</b>		<b>424.5748</b>	<b>424.5748</b>	<b>8.1400e-003</b>	<b>7.7800e-003</b>	<b>427.0978</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Winter

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

Category	lb/day										lb/day					
Mitigated	16.1755	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689
Unmitigated	16.1755	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689

**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	1.8382					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.3305					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.9300e-003	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004		0.1689
<b>Total</b>	<b>16.1755</b>	<b>6.8000e-004</b>	<b>0.0742</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>0.1584</b>	<b>0.1584</b>	<b>4.2000e-004</b>		<b>0.1689</b>

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
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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Winter

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

SubCategory	lb/day								lb/day						
Architectural Coating	1.8382					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Consumer Products	14.3305					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	6.9300e-003	6.8000e-004	0.0742	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1584	0.1584	4.2000e-004	0.1689
<b>Total</b>	<b>16.1755</b>	<b>6.8000e-004</b>	<b>0.0742</b>	<b>1.0000e-005</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>2.7000e-004</b>	<b>2.7000e-004</b>		<b>0.1584</b>	<b>0.1584</b>	<b>4.2000e-004</b>	<b>0.1689</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**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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Bellflower HE Existing Commercial - Operational - Los Angeles-South Coast County, Winter

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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

**Bellflower HE - Construction  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	414.00	Dwelling Unit	11.73	414,000.00	1184
Apartments Mid Rise	105.00	Dwelling Unit	7.18	105,000.00	300

**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>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Acreage updated to reflect project description.
- Construction Phase - Construction schedule adjusted to reflect one year of activity.
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation - Rule 403; 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

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

tblConstructionPhase	NumDays	20.00	220.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	10.00	7.00
tblLandUse	LotAcreage	6.68	11.73
tblLandUse	LotAcreage	2.76	7.18

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	2.0571	3.1171	4.2163	0.0106	1.0742	0.1294	1.2036	0.2748	0.1217	0.3965	0.0000	969.1874	969.1874	0.1083	0.0420	984.4195
Maximum	2.0571	3.1171	4.2163	0.0106	1.0742	0.1294	1.2036	0.2748	0.1217	0.3965	0.0000	969.1874	969.1874	0.1083	0.0420	984.4195

**Mitigated Construction**



Bellflower HE - Construction - Los Angeles-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	2.0571	3.1171	4.2163	0.0106	0.7355	0.1294	0.8649	0.1923	0.1217	0.3140	0.0000	969.1870	969.1870	0.1083	0.0420	984.4191
Maximum	2.0571	3.1171	4.2163	0.0106	0.7355	0.1294	0.8649	0.1923	0.1217	0.3140	0.0000	969.1870	969.1870	0.1083	0.0420	984.4191

	ROG	NOx	CO	SO2	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	31.53	0.00	28.14	30.02	0.00	20.81	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	1-1-2022	3-31-2022	1.4654	1.4654
2	4-1-2022	6-30-2022	1.2736	1.2736
3	7-1-2022	9-30-2022	1.2876	1.2876
		Highest	1.4654	1.4654

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/19/2022	5	13	
2	Site Preparation	Site Preparation	1/20/2022	1/28/2022	5	7	
3	Grading	Grading	1/31/2022	2/25/2022	5	20	
4	Building Construction	Building Construction	2/28/2022	11/25/2022	5	195	
5	Architectural Coating	Architectural Coating	2/28/2022	12/30/2022	5	220	

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

6	Paving	Paving	11/28/2022	12/14/2022	5	13
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**Acres of Grading (Site Preparation Phase): 10.5**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

**Residential Indoor: 1,050,975; Residential Outdoor: 350,325; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38



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

Off-Road	0.0172	0.1672	0.1339	2.5000e-004		8.0800e-003	8.0800e-003		7.5100e-003	7.5100e-003	0.0000	22.0937	22.0937	6.2100e-003	0.0000	22.2488
<b>Total</b>	<b>0.0172</b>	<b>0.1672</b>	<b>0.1339</b>	<b>2.5000e-004</b>	<b>0.3562</b>	<b>8.0800e-003</b>	<b>0.3643</b>	<b>0.0539</b>	<b>7.5100e-003</b>	<b>0.0614</b>	<b>0.0000</b>	<b>22.0937</b>	<b>22.0937</b>	<b>6.2100e-003</b>	<b>0.0000</b>	<b>22.2488</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5900e-003	0.2912	0.0649	1.0200e-003	0.0283	2.0600e-003	0.0304	7.7800e-003	1.9700e-003	9.7500e-003	0.0000	101.6677	101.6677	5.4000e-003	0.0161	106.6098
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.8000e-004	3.6200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8844	0.8844	3.0000e-005	2.0000e-005	0.8922
<b>Total</b>	<b>7.9200e-003</b>	<b>0.2914</b>	<b>0.0685</b>	<b>1.0300e-003</b>	<b>0.0294</b>	<b>2.0700e-003</b>	<b>0.0315</b>	<b>8.0600e-003</b>	<b>1.9800e-003</b>	<b>0.0100</b>	<b>0.0000</b>	<b>102.5521</b>	<b>102.5521</b>	<b>5.4300e-003</b>	<b>0.0162</b>	<b>107.5020</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					

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

Fugitive Dust					0.1523	0.0000	0.1523	0.0231	0.0000	0.0231	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0172	0.1672	0.1339	2.5000e-004	8.0800e-003	8.0800e-003		7.5100e-003	7.5100e-003	0.0000	22.0936	22.0936	6.2100e-003	0.0000	22.2488	
<b>Total</b>	<b>0.0172</b>	<b>0.1672</b>	<b>0.1339</b>	<b>2.5000e-004</b>	<b>0.1523</b>	<b>8.0800e-003</b>	<b>0.1604</b>	<b>0.0231</b>	<b>7.5100e-003</b>	<b>0.0306</b>	<b>0.0000</b>	<b>22.0936</b>	<b>22.0936</b>	<b>6.2100e-003</b>	<b>0.0000</b>	<b>22.2488</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.5900e-003	0.2912	0.0649	1.0200e-003	0.0264	2.0600e-003	0.0285	7.3100e-003	1.9700e-003	9.2800e-003	0.0000	101.6677	101.6677	5.4000e-003	0.0161	106.6098
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.8000e-004	3.6200e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8844	0.8844	3.0000e-005	2.0000e-005	0.8922
<b>Total</b>	<b>7.9200e-003</b>	<b>0.2914</b>	<b>0.0685</b>	<b>1.0300e-003</b>	<b>0.0274</b>	<b>2.0700e-003</b>	<b>0.0295</b>	<b>7.5700e-003</b>	<b>1.9800e-003</b>	<b>9.5500e-003</b>	<b>0.0000</b>	<b>102.5521</b>	<b>102.5521</b>	<b>5.4300e-003</b>	<b>0.0162</b>	<b>107.5020</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category	tons/yr										MT/yr					
	Fugitive Dust					0.0688	0.0000	0.0688	0.0354	0.0000	0.0354	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1158	0.0689	1.3000e-004	5.6400e-003	5.6400e-003			5.1900e-003	5.1900e-003	0.0000	11.7038	11.7038	3.7900e-003	0.0000	11.7984
<b>Total</b>	<b>0.0111</b>	<b>0.1158</b>	<b>0.0689</b>	<b>1.3000e-004</b>	<b>0.0688</b>	<b>5.6400e-003</b>	<b>0.0744</b>	<b>0.0354</b>	<b>5.1900e-003</b>	<b>0.0406</b>	<b>0.0000</b>	<b>11.7038</b>	<b>11.7038</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>11.7984</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.8000e-004	2.3400e-003	1.0000e-005	6.9000e-004	0.0000	6.9000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5715	0.5715	2.0000e-005	2.0000e-005	0.5765
<b>Total</b>	<b>2.2000e-004</b>	<b>1.8000e-004</b>	<b>2.3400e-003</b>	<b>1.0000e-005</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>6.9000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>0.5715</b>	<b>0.5715</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5765</b>

Mitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0294	0.0000	0.0294	0.0151	0.0000	0.0151	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1158	0.0689	1.3000e-004		5.6400e-003	5.6400e-003		5.1900e-003	5.1900e-003	0.0000	11.7038	11.7038	3.7900e-003	0.0000	11.7984
<b>Total</b>	<b>0.0111</b>	<b>0.1158</b>	<b>0.0689</b>	<b>1.3000e-004</b>	<b>0.0294</b>	<b>5.6400e-003</b>	<b>0.0351</b>	<b>0.0151</b>	<b>5.1900e-003</b>	<b>0.0203</b>	<b>0.0000</b>	<b>11.7038</b>	<b>11.7038</b>	<b>3.7900e-003</b>	<b>0.0000</b>	<b>11.7984</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.8000e-004	2.3400e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5715	0.5715	2.0000e-005	2.0000e-005	0.5765
<b>Total</b>	<b>2.2000e-004</b>	<b>1.8000e-004</b>	<b>2.3400e-003</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.5715</b>	<b>0.5715</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5765</b>

**3.4 Grading - 2022**

Unmitigated Construction On-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0920	0.0000	0.0920	0.0365	0.0000	0.0365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3884	0.2904	6.2000e-004		0.0164	0.0164		0.0150	0.0150	0.0000	54.5346	54.5346	0.0176	0.0000	54.9755
<b>Total</b>	<b>0.0363</b>	<b>0.3884</b>	<b>0.2904</b>	<b>6.2000e-004</b>	<b>0.0920</b>	<b>0.0164</b>	<b>0.1084</b>	<b>0.0365</b>	<b>0.0150</b>	<b>0.0516</b>	<b>0.0000</b>	<b>54.5346</b>	<b>54.5346</b>	<b>0.0176</b>	<b>0.0000</b>	<b>54.9755</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	5.7000e-004	7.4200e-003	2.0000e-005	2.1900e-003	1.0000e-005	2.2100e-003	5.8000e-004	1.0000e-005	6.0000e-004	0.0000	1.8141	1.8141	5.0000e-005	5.0000e-005	1.8301
<b>Total</b>	<b>6.9000e-004</b>	<b>5.7000e-004</b>	<b>7.4200e-003</b>	<b>2.0000e-005</b>	<b>2.1900e-003</b>	<b>1.0000e-005</b>	<b>2.2100e-003</b>	<b>5.8000e-004</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>1.8141</b>	<b>1.8141</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.8301</b>



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

**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					0.0394	0.0000	0.0394	0.0156	0.0000	0.0156	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0363	0.3884	0.2904	6.2000e-004		0.0164	0.0164		0.0150	0.0150	0.0000	54.5345	54.5345	0.0176	0.0000	54.9755
<b>Total</b>	<b>0.0363</b>	<b>0.3884</b>	<b>0.2904</b>	<b>6.2000e-004</b>	<b>0.0394</b>	<b>0.0164</b>	<b>0.0557</b>	<b>0.0156</b>	<b>0.0150</b>	<b>0.0307</b>	<b>0.0000</b>	<b>54.5345</b>	<b>54.5345</b>	<b>0.0176</b>	<b>0.0000</b>	<b>54.9755</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	5.7000e-004	7.4200e-003	2.0000e-005	2.0200e-003	1.0000e-005	2.0300e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.8141	1.8141	5.0000e-005	5.0000e-005	1.8301
<b>Total</b>	<b>6.9000e-004</b>	<b>5.7000e-004</b>	<b>7.4200e-003</b>	<b>2.0000e-005</b>	<b>2.0200e-003</b>	<b>1.0000e-005</b>	<b>2.0300e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>1.8141</b>	<b>1.8141</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.8301</b>

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

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1664	1.5225	1.5954	2.6300e-003		0.0789	0.0789		0.0742	0.0742	0.0000	225.9321	225.9321	0.0541	0.0000	227.2853
<b>Total</b>	<b>0.1664</b>	<b>1.5225</b>	<b>1.5954</b>	<b>2.6300e-003</b>		<b>0.0789</b>	<b>0.0789</b>		<b>0.0742</b>	<b>0.0742</b>	<b>0.0000</b>	<b>225.9321</b>	<b>225.9321</b>	<b>0.0541</b>	<b>0.0000</b>	<b>227.2853</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0105	0.2758	0.0915	1.0500e-003	0.0338	2.5100e-003	0.0363	9.7500e-003	2.4000e-003	0.0122	0.0000	102.4012	102.4012	3.4200e-003	0.0148	106.8884
Worker	0.1250	0.1041	1.3538	3.5800e-003	0.3996	2.6100e-003	0.4022	0.1061	2.4100e-003	0.1085	0.0000	330.7631	330.7631	9.4300e-003	8.9800e-003	333.6754
<b>Total</b>	<b>0.1354</b>	<b>0.3799</b>	<b>1.4452</b>	<b>4.6300e-003</b>	<b>0.4334</b>	<b>5.1200e-003</b>	<b>0.4385</b>	<b>0.1159</b>	<b>4.8100e-003</b>	<b>0.1207</b>	<b>0.0000</b>	<b>433.1643</b>	<b>433.1643</b>	<b>0.0129</b>	<b>0.0238</b>	<b>440.5639</b>

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

**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	0.1664	1.5225	1.5954	2.6300e-003		0.0789	0.0789		0.0742	0.0742	0.0000	225.9318	225.9318	0.0541	0.0000	227.2850
<b>Total</b>	<b>0.1664</b>	<b>1.5225</b>	<b>1.5954</b>	<b>2.6300e-003</b>		<b>0.0789</b>	<b>0.0789</b>		<b>0.0742</b>	<b>0.0742</b>	<b>0.0000</b>	<b>225.9318</b>	<b>225.9318</b>	<b>0.0541</b>	<b>0.0000</b>	<b>227.2850</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0105	0.2758	0.0915	1.0500e-003	0.0316	2.5100e-003	0.0342	9.2300e-003	2.4000e-003	0.0116	0.0000	102.4012	102.4012	3.4200e-003	0.0148	106.8884
Worker	0.1250	0.1041	1.3538	3.5800e-003	0.3684	2.6100e-003	0.3710	0.0985	2.4100e-003	0.1009	0.0000	330.7631	330.7631	9.4300e-003	8.9800e-003	333.6754
<b>Total</b>	<b>0.1354</b>	<b>0.3799</b>	<b>1.4452</b>	<b>4.6300e-003</b>	<b>0.4001</b>	<b>5.1200e-003</b>	<b>0.4052</b>	<b>0.1077</b>	<b>4.8100e-003</b>	<b>0.1125</b>	<b>0.0000</b>	<b>433.1643</b>	<b>433.1643</b>	<b>0.0129</b>	<b>0.0238</b>	<b>440.5639</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.6238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0225	0.1549	0.1995	3.3000e-004		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	28.0858	28.0858	1.8300e-003	0.0000	28.1315
<b>Total</b>	<b>1.6463</b>	<b>0.1549</b>	<b>0.1995</b>	<b>3.3000e-004</b>		<b>8.9900e-003</b>	<b>8.9900e-003</b>		<b>8.9900e-003</b>	<b>8.9900e-003</b>	<b>0.0000</b>	<b>28.0858</b>	<b>28.0858</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>28.1315</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0283	0.0236	0.3063	8.1000e-004	0.0904	5.9000e-004	0.0910	0.0240	5.4000e-004	0.0246	0.0000	74.8333	74.8333	2.1300e-003	2.0300e-003	75.4922
<b>Total</b>	<b>0.0283</b>	<b>0.0236</b>	<b>0.3063</b>	<b>8.1000e-004</b>	<b>0.0904</b>	<b>5.9000e-004</b>	<b>0.0910</b>	<b>0.0240</b>	<b>5.4000e-004</b>	<b>0.0246</b>	<b>0.0000</b>	<b>74.8333</b>	<b>74.8333</b>	<b>2.1300e-003</b>	<b>2.0300e-003</b>	<b>75.4922</b>

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

**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	1.6238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0225	0.1549	0.1995	3.3000e-004		8.9900e-003	8.9900e-003		8.9900e-003	8.9900e-003	0.0000	28.0858	28.0858	1.8300e-003	0.0000	28.1315
<b>Total</b>	<b>1.6463</b>	<b>0.1549</b>	<b>0.1995</b>	<b>3.3000e-004</b>		<b>8.9900e-003</b>	<b>8.9900e-003</b>		<b>8.9900e-003</b>	<b>8.9900e-003</b>	<b>0.0000</b>	<b>28.0858</b>	<b>28.0858</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>28.1315</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0283	0.0236	0.3063	8.1000e-004	0.0834	5.9000e-004	0.0839	0.0223	5.4000e-004	0.0228	0.0000	74.8333	74.8333	2.1300e-003	2.0300e-003	75.4922
<b>Total</b>	<b>0.0283</b>	<b>0.0236</b>	<b>0.3063</b>	<b>8.1000e-004</b>	<b>0.0834</b>	<b>5.9000e-004</b>	<b>0.0839</b>	<b>0.0223</b>	<b>5.4000e-004</b>	<b>0.0228</b>	<b>0.0000</b>	<b>74.8333</b>	<b>74.8333</b>	<b>2.1300e-003</b>	<b>2.0300e-003</b>	<b>75.4922</b>

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

3.7 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	7.1700e-003	0.0723	0.0948	1.5000e-004		3.6900e-003	3.6900e-003		3.4000e-003	3.4000e-003	0.0000	13.0179	13.0179	4.2100e-003	0.0000	13.1232
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.1700e-003</b>	<b>0.0723</b>	<b>0.0948</b>	<b>1.5000e-004</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>3.4000e-003</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>13.0179</b>	<b>13.0179</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1232</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.8000e-004	3.6200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8844	0.8844	3.0000e-005	2.0000e-005	0.8922
<b>Total</b>	<b>3.3000e-004</b>	<b>2.8000e-004</b>	<b>3.6200e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>1.0000e-005</b>	<b>1.0800e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.8844</b>	<b>0.8844</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8922</b>

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

**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	7.1700e-003	0.0723	0.0948	1.5000e-004		3.6900e-003	3.6900e-003		3.4000e-003	3.4000e-003	0.0000	13.0179	13.0179	4.2100e-003	0.0000	13.1232
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.1700e-003</b>	<b>0.0723</b>	<b>0.0948</b>	<b>1.5000e-004</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>3.4000e-003</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>13.0179</b>	<b>13.0179</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1232</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.8000e-004	3.6200e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8844	0.8844	3.0000e-005	2.0000e-005	0.8922
<b>Total</b>	<b>3.3000e-004</b>	<b>2.8000e-004</b>	<b>3.6200e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8844</b>	<b>0.8844</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8922</b>

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

**Bellflower HE - Construction  
Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	414.00	Dwelling Unit	11.73	414,000.00	1184
Apartments Mid Rise	105.00	Dwelling Unit	7.18	105,000.00	300

**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>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Acreage updated to reflect project description.

Construction Phase - Construction schedule adjusted to reflect one year of activity.

Demolition -

Grading -

Construction Off-road Equipment Mitigation - Rule 403; 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15



Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

tblConstructionPhase	NumDays	20.00	220.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	10.00	7.00
tblLandUse	LotAcreage	6.68	11.73
tblLandUse	LotAcreage	2.76	7.18

**2.0 Emissions Summary**

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

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	18.3344	68.2871	36.7972	0.1977	59.4033	1.6363	60.9630	10.1558	1.5054	11.6406	0.0000	21,142.1330	21,142.1330	1.9723	2.7390	22,007.6614
<b>Maximum</b>	<b>18.3344</b>	<b>68.2871</b>	<b>36.7972</b>	<b>0.1977</b>	<b>59.4033</b>	<b>1.6363</b>	<b>60.9630</b>	<b>10.1558</b>	<b>1.5054</b>	<b>11.6406</b>	<b>0.0000</b>	<b>21,142.1330</b>	<b>21,142.1330</b>	<b>1.9723</b>	<b>2.7390</b>	<b>22,007.6614</b>

Mitigated Construction

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	18.3344	68.2871	36.7972	0.1977	27.7141	1.6363	29.2737	4.7298	1.5054	6.1883	0.0000	21,142.1330	21,142.1330	1.9723	2.7390	22,007.6614
Maximum	18.3344	68.2871	36.7972	0.1977	27.7141	1.6363	29.2737	4.7298	1.5054	6.1883	0.0000	21,142.1330	21,142.1330	1.9723	2.7390	22,007.6614

	ROG	NOx	CO	SO2	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	53.35	0.00	51.98	53.43	0.00	46.84	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/19/2022	5	13	
2	Site Preparation	Site Preparation	1/20/2022	1/28/2022	5	7	
3	Grading	Grading	1/31/2022	2/25/2022	5	20	
4	Building Construction	Building Construction	2/28/2022	11/25/2022	5	195	
5	Architectural Coating	Architectural Coating	2/28/2022	12/30/2022	5	220	
6	Paving	Paving	11/28/2022	12/14/2022	5	13	

**Acres of Grading (Site Preparation Phase): 10.5**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

**Residential Indoor: 1,050,975; Residential Outdoor: 350,325; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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	6	15.00	0.00	3,292.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	374.00	55.00	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	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					54.8032	0.0000	54.8032	8.2977	0.0000	8.2977			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>54.8032</b>	<b>1.2427</b>	<b>56.0458</b>	<b>8.2977</b>	<b>1.1553</b>	<b>9.4530</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

**Unmitigated Construction Off-Site**

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1798	42.5298	9.9164	0.1574	4.4325	0.3160	4.7484	1.2152	0.3023	1.5176		17,239.3328	17,239.3328	0.9157	2.7352	18,077.3262
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>1.2317</b>	<b>42.5677</b>	<b>10.5076</b>	<b>0.1589</b>	<b>4.6001</b>	<b>0.3170</b>	<b>4.9172</b>	<b>1.2597</b>	<b>0.3033</b>	<b>1.5630</b>		<b>17,395.3518</b>	<b>17,395.3518</b>	<b>0.9199</b>	<b>2.7390</b>	<b>18,234.5694</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.4284	0.0000	23.4284	3.5473	0.0000	3.5473			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>23.4284</b>	<b>1.2427</b>	<b>24.6710</b>	<b>3.5473</b>	<b>1.1553</b>	<b>4.7025</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

**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	1.1798	42.5298	9.9164	0.1574	4.1312	0.3160	4.4471	1.1413	0.3023	1.4436		17,239.3328	17,239.3328	0.9157	2.7352	18,077.3262
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1546	1.0700e-003	0.1556	0.0413	9.9000e-004	0.0422		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>1.2317</b>	<b>42.5677</b>	<b>10.5076</b>	<b>0.1589</b>	<b>4.2857</b>	<b>0.3170</b>	<b>4.6027</b>	<b>1.1825</b>	<b>0.3033</b>	<b>1.4858</b>		<b>17,395.3518</b>	<b>17,395.3518</b>	<b>0.9199</b>	<b>2.7390</b>	<b>18,234.5694</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>8.4034</b>	<b>1.6126</b>	<b>10.0159</b>	<b>4.3188</b>	<b>1.4836</b>	<b>5.8024</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0623	0.0455	0.7094	1.8400e-003	0.1855	1.2900e-003	0.1867	0.0495	1.1900e-003	0.0507		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
<b>Total</b>	<b>0.0623</b>	<b>0.0455</b>	<b>0.7094</b>	<b>1.8400e-003</b>	<b>0.1855</b>	<b>1.2900e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1900e-003</b>	<b>0.0507</b>		<b>187.2229</b>	<b>187.2229</b>	<b>5.0700e-003</b>	<b>4.5000e-003</b>	<b>188.6918</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>



Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0692	0.0505	0.7883	2.0400e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		208.0254	208.0254	5.6300e-003	5.0000e-003	209.6576
<b>Total</b>	<b>0.0692</b>	<b>0.0505</b>	<b>0.7883</b>	<b>2.0400e-003</b>	<b>0.2236</b>	<b>1.4300e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3200e-003</b>	<b>0.0606</b>		<b>208.0254</b>	<b>208.0254</b>	<b>5.6300e-003</b>	<b>5.0000e-003</b>	<b>209.6576</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

Total	3.6248	38.8435	29.0415	0.0621	3.9345	1.6349	5.5694	1.5620	1.5041	3.0661	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0692	0.0505	0.7883	2.0400e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		208.0254	208.0254	5.6300e-003	5.0000e-003	209.6576
<b>Total</b>	<b>0.0692</b>	<b>0.0505</b>	<b>0.7883</b>	<b>2.0400e-003</b>	<b>0.2061</b>	<b>1.4300e-003</b>	<b>0.2075</b>	<b>0.0550</b>	<b>1.3200e-003</b>	<b>0.0563</b>		<b>208.0254</b>	<b>208.0254</b>	<b>5.6300e-003</b>	<b>5.0000e-003</b>	<b>209.6576</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1082	2.6941	0.9237	0.0108	0.3523	0.0257	0.3780	0.1014	0.0246	0.1260		1,157.5388	1,157.5388	0.0387	0.1668	1,208.2133
Worker	1.2944	0.9450	14.7405	0.0382	4.1804	0.0268	4.2072	1.1087	0.0247	1.1333		3,890.0752	3,890.0752	0.1053	0.0936	3,920.5964
<b>Total</b>	<b>1.4026</b>	<b>3.6392</b>	<b>15.6643</b>	<b>0.0490</b>	<b>4.5327</b>	<b>0.0525</b>	<b>4.5852</b>	<b>1.2101</b>	<b>0.0492</b>	<b>1.2593</b>		<b>5,047.6140</b>	<b>5,047.6140</b>	<b>0.1440</b>	<b>0.2604</b>	<b>5,128.8096</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

<b>Total</b>	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1082	2.6941	0.9237	0.0108	0.3297	0.0257	0.3554	0.0959	0.0246	0.1204		1,157.5388	1,157.5388	0.0387	0.1668	1,208.2133
Worker	1.2944	0.9450	14.7405	0.0382	3.8534	0.0268	3.8801	1.0284	0.0247	1.0531		3,890.0752	3,890.0752	0.1053	0.0936	3,920.5964
<b>Total</b>	<b>1.4026</b>	<b>3.6392</b>	<b>15.6643</b>	<b>0.0490</b>	<b>4.1831</b>	<b>0.0525</b>	<b>4.2355</b>	<b>1.1243</b>	<b>0.0492</b>	<b>1.1735</b>		<b>5,047.6140</b>	<b>5,047.6140</b>	<b>0.1440</b>	<b>0.2604</b>	<b>5,128.8096</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.7614					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>14.9660</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2596	0.1895	2.9560	7.6700e-003	0.8383	5.3700e-003	0.8437	0.2223	4.9500e-003	0.2273		780.0953	780.0953	0.0211	0.0188	786.2159
<b>Total</b>	<b>0.2596</b>	<b>0.1895</b>	<b>2.9560</b>	<b>7.6700e-003</b>	<b>0.8383</b>	<b>5.3700e-003</b>	<b>0.8437</b>	<b>0.2223</b>	<b>4.9500e-003</b>	<b>0.2273</b>		<b>780.0953</b>	<b>780.0953</b>	<b>0.0211</b>	<b>0.0188</b>	<b>786.2159</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

Archit. Coating	14.7614					0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183	281.9062
<b>Total</b>	<b>14.9660</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>	<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2596	0.1895	2.9560	7.6700e-003	0.7727	5.3700e-003	0.7781	0.2062	4.9500e-003	0.2112		780.0953	780.0953	0.0211	0.0188	786.2159
<b>Total</b>	<b>0.2596</b>	<b>0.1895</b>	<b>2.9560</b>	<b>7.6700e-003</b>	<b>0.7727</b>	<b>5.3700e-003</b>	<b>0.7781</b>	<b>0.2062</b>	<b>4.9500e-003</b>	<b>0.2112</b>		<b>780.0953</b>	<b>780.0953</b>	<b>0.0211</b>	<b>0.0188</b>	<b>786.2159</b>

**3.7 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
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Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</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>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>

**Mitigated Construction On-Site**

Bellflower HE - Construction - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0519	0.0379	0.5912	1.5300e-003	0.1546	1.0700e-003	0.1556	0.0413	9.9000e-004	0.0422		156.0191	156.0191	4.2200e-003	3.7500e-003	157.2432
<b>Total</b>	<b>0.0519</b>	<b>0.0379</b>	<b>0.5912</b>	<b>1.5300e-003</b>	<b>0.1546</b>	<b>1.0700e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.9000e-004</b>	<b>0.0422</b>		<b>156.0191</b>	<b>156.0191</b>	<b>4.2200e-003</b>	<b>3.7500e-003</b>	<b>157.2432</b>



Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

**Bellflower HE - Construction  
Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	414.00	Dwelling Unit	11.73	414,000.00	1184
Apartments Mid Rise	105.00	Dwelling Unit	7.18	105,000.00	300

**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>	9			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Acreage updated to reflect project description.
- Construction Phase - Construction schedule adjusted to reflect one year of activity.
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation - Rule 403; 1186

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

tblConstructionPhase	NumDays	20.00	220.00
tblConstructionPhase	NumDays	300.00	195.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	10.00	7.00
tblLandUse	LotAcreage	6.68	11.73
tblLandUse	LotAcreage	2.76	7.18

**2.0 Emissions Summary**

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

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	18.4427	70.0170	35.3807	0.1977	59.4033	1.6363	60.9636	10.1558	1.5054	11.6406	0.0000	21,138.9376	21,138.9376	1.9708	2.7402	22,004.7718
<b>Maximum</b>	<b>18.4427</b>	<b>70.0170</b>	<b>35.3807</b>	<b>0.1977</b>	<b>59.4033</b>	<b>1.6363</b>	<b>60.9636</b>	<b>10.1558</b>	<b>1.5054</b>	<b>11.6406</b>	<b>0.0000</b>	<b>21,138.9376</b>	<b>21,138.9376</b>	<b>1.9708</b>	<b>2.7402</b>	<b>22,004.7718</b>

Mitigated Construction

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	18.4427	70.0170	35.3807	0.1977	27.7141	1.6363	29.2744	4.7298	1.5054	6.1890	0.0000	21,138.9376	21,138.9376	1.9708	2.7402	22,004.7718
Maximum	18.4427	70.0170	35.3807	0.1977	27.7141	1.6363	29.2744	4.7298	1.5054	6.1890	0.0000	21,138.9376	21,138.9376	1.9708	2.7402	22,004.7718

	ROG	NOx	CO	SO2	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	53.35	0.00	51.98	53.43	0.00	46.83	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/19/2022	5	13	
2	Site Preparation	Site Preparation	1/20/2022	1/28/2022	5	7	
3	Grading	Grading	1/31/2022	2/25/2022	5	20	
4	Building Construction	Building Construction	2/28/2022	11/25/2022	5	195	
5	Architectural Coating	Architectural Coating	2/28/2022	12/30/2022	5	220	
6	Paving	Paving	11/28/2022	12/14/2022	5	13	

**Acres of Grading (Site Preparation Phase): 10.5**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 0**

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

**Residential Indoor: 1,050,975; Residential Outdoor: 350,325; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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	6	15.00	0.00	3,292.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	374.00	55.00	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	75.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					54.8032	0.0000	54.8032	8.2977	0.0000	8.2977			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>54.8032</b>	<b>1.2427</b>	<b>56.0458</b>	<b>8.2977</b>	<b>1.1553</b>	<b>9.4530</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

**Unmitigated Construction Off-Site**

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1514	44.2557	10.0909	0.1574	4.4325	0.3166	4.7491	1.2152	0.3029	1.5182		17,244.3865	17,244.3865	0.9141	2.7361	18,082.6078
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>1.2070</b>	<b>44.2976</b>	<b>10.6337</b>	<b>0.1589</b>	<b>4.6001</b>	<b>0.3177</b>	<b>4.9178</b>	<b>1.2597</b>	<b>0.3039</b>	<b>1.5636</b>		<b>17,392.1565</b>	<b>17,392.1565</b>	<b>0.9184</b>	<b>2.7402</b>	<b>18,231.6798</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					23.4284	0.0000	23.4284	3.5473	0.0000	3.5473			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
<b>Total</b>	<b>2.6392</b>	<b>25.7194</b>	<b>20.5941</b>	<b>0.0388</b>	<b>23.4284</b>	<b>1.2427</b>	<b>24.6710</b>	<b>3.5473</b>	<b>1.1553</b>	<b>4.7025</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

**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	1.1514	44.2557	10.0909	0.1574	4.1312	0.3166	4.4478	1.1413	0.3029	1.4442		17,244.3865	17,244.3865	0.9141	2.7361	18,082.6078
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1546	1.0700e-003	0.1556	0.0413	9.9000e-004	0.0422		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>1.2070</b>	<b>44.2976</b>	<b>10.6337</b>	<b>0.1589</b>	<b>4.2857</b>	<b>0.3177</b>	<b>4.6034</b>	<b>1.1825</b>	<b>0.3039</b>	<b>1.4864</b>		<b>17,392.1565</b>	<b>17,392.1565</b>	<b>0.9184</b>	<b>2.7402</b>	<b>18,231.6798</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>		<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
<b>Total</b>	<b>0.0667</b>	<b>0.0503</b>	<b>0.6514</b>	<b>1.7400e-003</b>	<b>0.2012</b>	<b>1.2900e-003</b>	<b>0.2025</b>	<b>0.0534</b>	<b>1.1900e-003</b>	<b>0.0546</b>		<b>177.3240</b>	<b>177.3240</b>	<b>5.1300e-003</b>	<b>4.8100e-003</b>	<b>178.8864</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
<b>Total</b>	<b>3.1701</b>	<b>33.0835</b>	<b>19.6978</b>	<b>0.0380</b>	<b>8.4034</b>	<b>1.6126</b>	<b>10.0159</b>	<b>4.3188</b>	<b>1.4836</b>	<b>5.8024</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>



Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0667	0.0503	0.6514	1.7400e-003	0.1855	1.2900e-003	0.1867	0.0495	1.1900e-003	0.0507		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
<b>Total</b>	<b>0.0667</b>	<b>0.0503</b>	<b>0.6514</b>	<b>1.7400e-003</b>	<b>0.1855</b>	<b>1.2900e-003</b>	<b>0.1867</b>	<b>0.0495</b>	<b>1.1900e-003</b>	<b>0.0507</b>		<b>177.3240</b>	<b>177.3240</b>	<b>5.1300e-003</b>	<b>4.8100e-003</b>	<b>178.8864</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
<b>Total</b>	<b>3.6248</b>	<b>38.8435</b>	<b>29.0415</b>	<b>0.0621</b>	<b>9.2036</b>	<b>1.6349</b>	<b>10.8385</b>	<b>3.6538</b>	<b>1.5041</b>	<b>5.1579</b>		<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0741	0.0558	0.7237	1.9400e-003	0.2236	1.4300e-003	0.2250	0.0593	1.3200e-003	0.0606		197.0266	197.0266	5.7000e-003	5.3500e-003	198.7627
<b>Total</b>	<b>0.0741</b>	<b>0.0558</b>	<b>0.7237</b>	<b>1.9400e-003</b>	<b>0.2236</b>	<b>1.4300e-003</b>	<b>0.2250</b>	<b>0.0593</b>	<b>1.3200e-003</b>	<b>0.0606</b>		<b>197.0266</b>	<b>197.0266</b>	<b>5.7000e-003</b>	<b>5.3500e-003</b>	<b>198.7627</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.9345	0.0000	3.9345	1.5620	0.0000	1.5620			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

Total	3.6248	38.8435	29.0415	0.0621	3.9345	1.6349	5.5694	1.5620	1.5041	3.0661	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0741	0.0558	0.7237	1.9400e-003	0.2061	1.4300e-003	0.2075	0.0550	1.3200e-003	0.0563		197.0266	197.0266	5.7000e-003	5.3500e-003	198.7627
<b>Total</b>	<b>0.0741</b>	<b>0.0558</b>	<b>0.7237</b>	<b>1.9400e-003</b>	<b>0.2061</b>	<b>1.4300e-003</b>	<b>0.2075</b>	<b>0.0550</b>	<b>1.3200e-003</b>	<b>0.0563</b>		<b>197.0266</b>	<b>197.0266</b>	<b>5.7000e-003</b>	<b>5.3500e-003</b>	<b>198.7627</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1069	2.8052	0.9557	0.0108	0.3523	0.0258	0.3781	0.1014	0.0246	0.1261		1,157.9737	1,157.9737	0.0386	0.1670	1,208.7091
Worker	1.3857	1.0442	13.5340	0.0362	4.1804	0.0268	4.2072	1.1087	0.0247	1.1333		3,684.3980	3,684.3980	0.1066	0.1000	3,716.8622
<b>Total</b>	<b>1.4927</b>	<b>3.8494</b>	<b>14.4897</b>	<b>0.0470</b>	<b>4.5327</b>	<b>0.0526</b>	<b>4.5853</b>	<b>1.2101</b>	<b>0.0493</b>	<b>1.2594</b>		<b>4,842.3717</b>	<b>4,842.3717</b>	<b>0.1451</b>	<b>0.2670</b>	<b>4,925.5714</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1069	2.8052	0.9557	0.0108	0.3297	0.0258	0.3555	0.0959	0.0246	0.1205		1,157.9737	1,157.9737	0.0386	0.1670	1,208.7091
Worker	1.3857	1.0442	13.5340	0.0362	3.8534	0.0268	3.8801	1.0284	0.0247	1.0531		3,684.3980	3,684.3980	0.1066	0.1000	3,716.8622
<b>Total</b>	<b>1.4927</b>	<b>3.8494</b>	<b>14.4897</b>	<b>0.0470</b>	<b>4.1831</b>	<b>0.0526</b>	<b>4.2356</b>	<b>1.1243</b>	<b>0.0493</b>	<b>1.1736</b>		<b>4,842.3717</b>	<b>4,842.3717</b>	<b>0.1451</b>	<b>0.2670</b>	<b>4,925.5714</b>

**3.6 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	14.7614					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>14.9660</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2779	0.2094	2.7140	7.2600e-003	0.8383	5.3700e-003	0.8437	0.2223	4.9500e-003	0.2273		738.8499	738.8499	0.0214	0.0201	745.3601
<b>Total</b>	<b>0.2779</b>	<b>0.2094</b>	<b>2.7140</b>	<b>7.2600e-003</b>	<b>0.8383</b>	<b>5.3700e-003</b>	<b>0.8437</b>	<b>0.2223</b>	<b>4.9500e-003</b>	<b>0.2273</b>		<b>738.8499</b>	<b>738.8499</b>	<b>0.0214</b>	<b>0.0201</b>	<b>745.3601</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

Archit. Coating	14.7614					0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>14.9660</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.2779	0.2094	2.7140	7.2600e-003	0.7727	5.3700e-003	0.7781	0.2062	4.9500e-003	0.2112		738.8499	738.8499	0.0214	0.0201	745.3601
<b>Total</b>	<b>0.2779</b>	<b>0.2094</b>	<b>2.7140</b>	<b>7.2600e-003</b>	<b>0.7727</b>	<b>5.3700e-003</b>	<b>0.7781</b>	<b>0.2062</b>	<b>4.9500e-003</b>	<b>0.2112</b>		<b>738.8499</b>	<b>738.8499</b>	<b>0.0214</b>	<b>0.0201</b>	<b>745.3601</b>

**3.7 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
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Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1677	1.0700e-003	0.1687	0.0445	9.9000e-004	0.0455		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5428</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>147.7700</b>	<b>147.7700</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>149.0720</b>

**Mitigated Construction On-Site**



Bellflower HE - Construction - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1028</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0556	0.0419	0.5428	1.4500e-003	0.1546	1.0700e-003	0.1556	0.0413	9.9000e-004	0.0422		147.7700	147.7700	4.2700e-003	4.0100e-003	149.0720
<b>Total</b>	<b>0.0556</b>	<b>0.0419</b>	<b>0.5428</b>	<b>1.4500e-003</b>	<b>0.1546</b>	<b>1.0700e-003</b>	<b>0.1556</b>	<b>0.0413</b>	<b>9.9000e-004</b>	<b>0.0422</b>		<b>147.7700</b>	<b>147.7700</b>	<b>4.2700e-003</b>	<b>4.0100e-003</b>	<b>149.0720</b>

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

**Bellflower HE - Operations  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	3,309.00	Dwelling Unit	93.88	3,309,000.00	9464
Apartments Mid Rise	838.00	Dwelling Unit	57.41	838,000.00	2397

**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>	9			<b>Operational Year</b>	2030
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Lot acreage adjusted to meet project description
- Vehicle Trips - Trips adjusted to meet project annual VMT of 56,121,351
- Woodstoves - Rule 445 no woodburning stoves or fireplaces

Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	2,812.65	2,978.10
tblFireplaces	NumberGas	712.30	754.20
tblFireplaces	NumberWood	165.45	0.00
tblFireplaces	NumberWood	41.90	0.00

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

tblLandUse	LotAcreage	53.37	93.88
tblLandUse	LotAcreage	22.05	57.41
tblVehicleTrips	HO_TL	8.70	7.89
tblVehicleTrips	HO_TL	8.70	7.89
tblVehicleTrips	HS_TL	5.90	4.50
tblVehicleTrips	HS_TL	5.90	4.50
tblVehicleTrips	HW_TL	14.70	13.00
tblVehicleTrips	HW_TL	14.70	12.99
tblWoodstoves	NumberCatalytic	165.45	0.00
tblWoodstoves	NumberCatalytic	41.90	0.00
tblWoodstoves	NumberNoncatalytic	165.45	0.00
tblWoodstoves	NumberNoncatalytic	41.90	0.00

**2.0 Emissions Summary**

**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	17.6490	1.2656	42.9829	7.2000e-003		0.2997	0.2997		0.2997	0.2997	0.0000	966.1223	966.1223	0.0837	0.0164	973.1123
Energy	0.2922	2.4969	1.0625	0.0159		0.2019	0.2019		0.2019	0.2019	0.0000	6,801.5254	6,801.5254	0.2944	0.0820	6,833.3137
Mobile	7.9992	8.0904	78.9425	0.1711	21.0950	0.1130	21.2079	5.6292	0.1050	5.7342	0.0000	16,742.0698	16,742.0698	1.1361	0.7010	16,979.3778
Waste						0.0000	0.0000		0.0000	0.0000	387.2296	0.0000	387.2296	22.8846	0.0000	959.3450



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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.9992	8.0904	78.9425	0.1711	21.0950	0.1130	21.2079	5.6292	0.1050	5.7342	0.0000	16,742.0698	16,742.0698	1.1361	0.7010	16,979.3778
Unmitigated	7.9992	8.0904	78.9425	0.1711	21.0950	0.1130	21.2079	5.6292	0.1050	5.7342	0.0000	16,742.0698	16,742.0698	1.1361	0.7010	16,979.3778

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	14,725.05	14,989.77	11879.31	43,116,453	43,116,453
Apartments Mid Rise	4,558.72	4,114.58	3427.42	13,009,668	13,009,668
Total	19,283.77	19,104.35	15,306.73	56,126,122	56,126,122

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	13.00	4.50	7.89	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	12.99	4.50	7.89	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.529534	0.067658	0.193471	0.126518	0.024260	0.006985	0.011675	0.007885	0.000939	0.000569	0.026493	0.000724	0.0032
Apartments Mid Rise	0.529534	0.067658	0.193471	0.126518	0.024260	0.006985	0.011675	0.007885	0.000939	0.000569	0.026493	0.000724	0.0032

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,909.8928	3,909.8928	0.2390	0.0290	3,924.4975
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,909.8928	3,909.8928	0.2390	0.0290	3,924.4975
Natural Gas Mitigated	0.2922	2.4969	1.0625	0.0159		0.2019	0.2019		0.2019	0.2019	0.0000	2,891.6326	2,891.6326	0.0554	0.0530	2,908.8161
Natural Gas Unmitigated	0.2922	2.4969	1.0625	0.0159		0.2019	0.2019		0.2019	0.2019	0.0000	2,891.6326	2,891.6326	0.0554	0.0530	2,908.8161

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

Unmitigated

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	4.32373e+07	0.2331	1.9923	0.8478	0.0127		0.1611	0.1611		0.1611	0.1611	0.0000	2,307.3095	2,307.3095	0.0442	0.0423	2,321.0206
Apartments Mid Rise	1.09498e+07	0.0590	0.5046	0.2147	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	584.3232	584.3232	0.0112	0.0107	587.7955
<b>Total</b>		<b>0.2922</b>	<b>2.4969</b>	<b>1.0625</b>	<b>0.0159</b>		<b>0.2019</b>	<b>0.2019</b>		<b>0.2019</b>	<b>0.2019</b>	<b>0.0000</b>	<b>2,891.6326</b>	<b>2,891.6326</b>	<b>0.0554</b>	<b>0.0530</b>	<b>2,908.8161</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	4.32373e+07	0.2331	1.9923	0.8478	0.0127		0.1611	0.1611		0.1611	0.1611	0.0000	2,307.3095	2,307.3095	0.0442	0.0423	2,321.0206
Apartments Mid Rise	1.09498e+07	0.0590	0.5046	0.2147	3.2200e-003		0.0408	0.0408		0.0408	0.0408	0.0000	584.3232	584.3232	0.0112	0.0107	587.7955
<b>Total</b>		<b>0.2922</b>	<b>2.4969</b>	<b>1.0625</b>	<b>0.0159</b>		<b>0.2019</b>	<b>0.2019</b>		<b>0.2019</b>	<b>0.2019</b>	<b>0.0000</b>	<b>2,891.6326</b>	<b>2,891.6326</b>	<b>0.0554</b>	<b>0.0530</b>	<b>2,908.8161</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.27375e+07	3,119.8060	0.1907	0.0231	3,131.4594
Apartments Mid Rise	3.22576e+06	790.0869	0.0483	5.8500e-003	793.0381
<b>Total</b>		<b>3,909.8928</b>	<b>0.2389</b>	<b>0.0290</b>	<b>3,924.4975</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	1.27375e+07	3,119.8060	0.1907	0.0231	3,131.4594
Apartments Mid Rise	3.22576e+06	790.0869	0.0483	5.8500e-003	793.0381
<b>Total</b>		<b>3,909.8928</b>	<b>0.2389</b>	<b>0.0290</b>	<b>3,924.4975</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 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	17.6490	1.2656	42.9829	7.2000e-003		0.2997	0.2997		0.2997	0.2997	0.0000	966.1223	966.1223	0.0837	0.0164	973.1123
Unmitigated	17.6490	1.2656	42.9829	7.2000e-003		0.2997	0.2997		0.2997	0.2997	0.0000	966.1223	966.1223	0.0837	0.0164	973.1123

**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	1.2974					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.9852					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0906	0.7739	0.3293	4.9400e-003		0.0626	0.0626		0.0626	0.0626	0.0000	896.2638	896.2638	0.0172	0.0164	901.5899
Landscaping	1.2758	0.4917	42.6536	2.2600e-003		0.2372	0.2372		0.2372	0.2372	0.0000	69.8585	69.8585	0.0666	0.0000	71.5224
<b>Total</b>	<b>17.6490</b>	<b>1.2656</b>	<b>42.9829</b>	<b>7.2000e-003</b>		<b>0.2997</b>	<b>0.2997</b>		<b>0.2997</b>	<b>0.2997</b>	<b>0.0000</b>	<b>966.1223</b>	<b>966.1223</b>	<b>0.0837</b>	<b>0.0164</b>	<b>973.1123</b>

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

**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	1.2974					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.9852					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0906	0.7739	0.3293	4.9400e-003		0.0626	0.0626		0.0626	0.0626	0.0000	896.2638	896.2638	0.0172	0.0164	901.5899
Landscaping	1.2758	0.4917	42.6536	2.2600e-003		0.2372	0.2372		0.2372	0.2372	0.0000	69.8585	69.8585	0.0666	0.0000	71.5224
<b>Total</b>	<b>17.6490</b>	<b>1.2656</b>	<b>42.9829</b>	<b>7.2000e-003</b>		<b>0.2997</b>	<b>0.2997</b>		<b>0.2997</b>	<b>0.2997</b>	<b>0.0000</b>	<b>966.1223</b>	<b>966.1223</b>	<b>0.0837</b>	<b>0.0164</b>	<b>973.1123</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			

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

Mitigated	1,410.9586	8.8853	0.2177	1,697.9660
Unmitigated	1,410.9586	8.8853	0.2177	1,697.9660

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	215.595 / 135.918	1,125.8408	7.0898	0.1737	1,354.8516
Apartments Mid Rise	54.5991 / 34.4212	285.1177	1.7955	0.0440	343.1144
<b>Total</b>		<b>1,410.9586</b>	<b>8.8853</b>	<b>0.2177</b>	<b>1,697.9660</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	215.595 / 135.918	1,125.8408	7.0898	0.1737	1,354.8516

Bellflower HE - Operations - Los Angeles-South Coast County, Annual

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

Apartments Mid Rise	54.5991 / 34.4212	285.1177	1.7955	0.0440	343.1144
<b>Total</b>		<b>1,410.9586</b>	<b>8.8853</b>	<b>0.2177</b>	<b>1,697.9660</b>

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	387.2296	22.8846	0.0000	959.3450
Unmitigated	387.2296	22.8846	0.0000	959.3450

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

Bellflower HE - Operations - Los Angeles-South Coast County, Annual

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

Apartments High Rise	1522.14	308.9807	18.2602	0.0000	765.4865
Apartments Mid Rise	385.48	78.2490	4.6244	0.0000	193.8585
<b>Total</b>		<b>387.2296</b>	<b>22.8846</b>	<b>0.0000</b>	<b>959.3450</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	1522.14	308.9807	18.2602	0.0000	765.4865
Apartments Mid Rise	385.48	78.2490	4.6244	0.0000	193.8585
<b>Total</b>		<b>387.2296</b>	<b>22.8846</b>	<b>0.0000</b>	<b>959.3450</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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Bellflower HE - Operations - Los Angeles-South Coast County, Annual

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

**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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Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

**Bellflower HE - Operations  
Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	3,309.00	Dwelling Unit	93.88	3,309,000.00	9464
Apartments Mid Rise	838.00	Dwelling Unit	57.41	838,000.00	2397

**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>	9			<b>Operational Year</b>	2030
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted to meet project description

Vehicle Trips - Trips adjusted to meet project annual VMT of 56,121,351

Woodstoves - Rule 445 no woodburning stoves or fireplaces

Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	2,812.65	2,978.10
tblFireplaces	NumberGas	712.30	754.20
tblFireplaces	NumberWood	165.45	0.00
tblFireplaces	NumberWood	41.90	0.00

Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

tblLandUse	LotAcreage	53.37	93.88
tblLandUse	LotAcreage	22.05	57.41
tblVehicleTrips	HO_TL	8.70	7.89
tblVehicleTrips	HO_TL	8.70	7.89
tblVehicleTrips	HS_TL	5.90	4.50
tblVehicleTrips	HS_TL	5.90	4.50
tblVehicleTrips	HW_TL	14.70	13.00
tblVehicleTrips	HW_TL	14.70	12.99
tblWoodstoves	NumberCatalytic	165.45	0.00
tblWoodstoves	NumberCatalytic	41.90	0.00
tblWoodstoves	NumberNoncatalytic	165.45	0.00
tblWoodstoves	NumberNoncatalytic	41.90	0.00

**2.0 Emissions Summary**

**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	106.6713	65.8460	367.5743	0.4133		6.9030	6.9030		6.9030	6.9030	0.0000	79,652.9876	79,652.9876	2.1018	1.4490	80,137.3380
Energy	1.6010	13.6814	5.8219	0.0873		1.1062	1.1062		1.1062	1.1062		17,465.6402	17,465.6402	0.3348	0.3202	17,569.4298
Mobile	47.7154	42.6007	455.4335	1.0152	123.6401	0.6498	124.2900	32.9416	0.6040	33.5456		109,507.5387	109,507.5387	7.0395	4.2434	110,948.0593



Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

<b>Total</b>	155.9877	122.1281	828.8297	1.5158	123.6401	8.6590	132.2991	32.9416	8.6132	41.5548	0.0000	206,626.166 4	206,626.166 4	9.4761	6.0126	208,654.827 1
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**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	106.6713	65.8460	367.5743	0.4133		6.9030	6.9030		6.9030	6.9030	0.0000	79,652.9876	79,652.9876	2.1018	1.4490	80,137.3380
Energy	1.6010	13.6814	5.8219	0.0873		1.1062	1.1062		1.1062	1.1062		17,465.6402	17,465.6402	0.3348	0.3202	17,569.4298
Mobile	47.7154	42.6007	455.4335	1.0152	123.6401	0.6498	124.2900	32.9416	0.6040	33.5456		109,507.538 7	109,507.538 7	7.0395	4.2434	110,948.059 3
<b>Total</b>	<b>155.9877</b>	<b>122.1281</b>	<b>828.8297</b>	<b>1.5158</b>	<b>123.6401</b>	<b>8.6590</b>	<b>132.2991</b>	<b>32.9416</b>	<b>8.6132</b>	<b>41.5548</b>	<b>0.0000</b>	<b>206,626.166 4</b>	<b>206,626.166 4</b>	<b>9.4761</b>	<b>6.0126</b>	<b>208,654.827 1</b>

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	47.7154	42.6007	455.4335	1.0152	123.6401	0.6498	124.2900	32.9416	0.6040	33.5456		109,507.538	109,507.538	7.0395	4.2434	110,948.059
Unmitigated	47.7154	42.6007	455.4335	1.0152	123.6401	0.6498	124.2900	32.9416	0.6040	33.5456		109,507.538	109,507.538	7.0395	4.2434	110,948.059

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	14,725.05	14,989.77	11879.31	43,116,453	43,116,453
Apartments Mid Rise	4,558.72	4,114.58	3427.42	13,009,668	13,009,668
Total	19,283.77	19,104.35	15,306.73	56,126,122	56,126,122

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	13.00	4.50	7.89	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	12.99	4.50	7.89	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.529534	0.067658	0.193471	0.126518	0.024260	0.006985	0.011675	0.007885	0.000939	0.000569	0.026493	0.000724	0.0032
Apartments Mid Rise	0.529534	0.067658	0.193471	0.126518	0.024260	0.006985	0.011675	0.007885	0.000939	0.000569	0.026493	0.000724	0.0032

**5.0 Energy Detail**

Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive 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	1.6010	13.6814	5.8219	0.0873		1.1062	1.1062		1.1062	1.1062		17,465.6402	17,465.6402	0.3348	0.3202	17,569.4298
NaturalGas Unmitigated	1.6010	13.6814	5.8219	0.0873		1.1062	1.1062		1.1062	1.1062		17,465.6402	17,465.6402	0.3348	0.3202	17,569.4298

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	118458	1.2775	10.9168	4.6454	0.0697		0.8826	0.8826		0.8826	0.8826		13,936.2921	13,936.2921	0.2671	0.2555	14,019.1085
Apartments Mid Rise	29999.5	0.3235	2.7647	1.1765	0.0177		0.2235	0.2235		0.2235	0.2235		3,529.3481	3,529.3481	0.0677	0.0647	3,550.3212
<b>Total</b>		<b>1.6010</b>	<b>13.6814</b>	<b>5.8219</b>	<b>0.0873</b>		<b>1.1062</b>	<b>1.1062</b>		<b>1.1062</b>	<b>1.1062</b>		<b>17,465.6402</b>	<b>17,465.6402</b>	<b>0.3348</b>	<b>0.3202</b>	<b>17,569.4298</b>

Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	118.458	1.2775	10.9168	4.6454	0.0697		0.8826	0.8826		0.8826	0.8826		13,936.2921	13,936.2921	0.2671	0.2555	14,019.1085
Apartments Mid Rise	29.9995	0.3235	2.7647	1.1765	0.0177		0.2235	0.2235		0.2235	0.2235		3,529.3481	3,529.3481	0.0677	0.0647	3,550.3212
<b>Total</b>		<b>1.6010</b>	<b>13.6814</b>	<b>5.8219</b>	<b>0.0873</b>		<b>1.1062</b>	<b>1.1062</b>		<b>1.1062</b>	<b>1.1062</b>		<b>17,465.6402</b>	<b>17,465.6402</b>	<b>0.3348</b>	<b>0.3202</b>	<b>17,569.4298</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	106.6713	65.8460	367.5743	0.4133		6.9030	6.9030		6.9030	6.9030	0.0000	79,652.9876	79,652.9876	2.1018	1.4490	80,137.3380

Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

Unmitigated	106.6713	65.8460	367.5743	0.4133		6.9030	6.9030		6.9030	6.9030	0.0000	79,652.9876	79,652.9876	2.1018	1.4490	80,137.3380
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**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	7.1093					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	82.1106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.2451	61.9123	26.3457	0.3952		5.0057	5.0057		5.0057	5.0057	0.0000	79,036.9412	79,036.9412	1.5149	1.4490	79,506.6182
Landscaping	10.2064	3.9337	341.2286	0.0181		1.8974	1.8974		1.8974	1.8974		616.0464	616.0464	0.5869		630.7198
<b>Total</b>	<b>106.6713</b>	<b>65.8460</b>	<b>367.5743</b>	<b>0.4133</b>		<b>6.9030</b>	<b>6.9030</b>		<b>6.9030</b>	<b>6.9030</b>	<b>0.0000</b>	<b>79,652.9876</b>	<b>79,652.9876</b>	<b>2.1018</b>	<b>1.4490</b>	<b>80,137.3380</b>

**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					

Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

Architectural Coating	7.1093				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	82.1106				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.2451	61.9123	26.3457	0.3952	5.0057	5.0057		5.0057	5.0057	0.0000	79,036.9412	79,036.9412	1.5149	1.4490	79,506.6182
Landscaping	10.2064	3.9337	341.2286	0.0181	1.8974	1.8974		1.8974	1.8974		616.0464	616.0464	0.5869		630.7198
<b>Total</b>	<b>106.6713</b>	<b>65.8460</b>	<b>367.5743</b>	<b>0.4133</b>	<b>6.9030</b>	<b>6.9030</b>		<b>6.9030</b>	<b>6.9030</b>	<b>0.0000</b>	<b>79,652.9876</b>	<b>79,652.9876</b>	<b>2.1018</b>	<b>1.4490</b>	<b>80,137.3380</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**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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Bellflower HE - Operations - Los Angeles-South Coast County, Summer

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

**Bellflower HE - Operations  
Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments High Rise	3,309.00	Dwelling Unit	93.88	3,309,000.00	9464
Apartments Mid Rise	838.00	Dwelling Unit	57.41	838,000.00	2397

**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>	9			<b>Operational Year</b>	2030
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MWhr)</b>	539.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

Project Characteristics -

Land Use - Lot acreage adjusted to meet project description

Vehicle Trips - Trips adjusted to meet project annual VMT of 56,121,351

Woodstoves - Rule 445 no woodburning stoves or fireplaces

Table Name	Column Name	Default Value	New Value
tblFireplaces	NumberGas	2,812.65	2,978.10
tblFireplaces	NumberGas	712.30	754.20
tblFireplaces	NumberWood	165.45	0.00
tblFireplaces	NumberWood	41.90	0.00



Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

tblLandUse	LotAcreage	53.37	93.88
tblLandUse	LotAcreage	22.05	57.41
tblVehicleTrips	HO_TL	8.70	7.89
tblVehicleTrips	HO_TL	8.70	7.89
tblVehicleTrips	HS_TL	5.90	4.50
tblVehicleTrips	HS_TL	5.90	4.50
tblVehicleTrips	HW_TL	14.70	13.00
tblVehicleTrips	HW_TL	14.70	12.99
tblWoodstoves	NumberCatalytic	165.45	0.00
tblWoodstoves	NumberCatalytic	41.90	0.00
tblWoodstoves	NumberNoncatalytic	165.45	0.00
tblWoodstoves	NumberNoncatalytic	41.90	0.00

**2.0 Emissions Summary**

**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	106.6713	65.8460	367.5743	0.4133		6.9030	6.9030		6.9030	6.9030	0.0000	79,652.9876	79,652.9876	2.1018	1.4490	80,137.3380
Energy	1.6010	13.6814	5.8219	0.0873		1.1062	1.1062		1.1062	1.1062		17,465.6402	17,465.6402	0.3348	0.3202	17,569.4298
Mobile	46.7293	45.9364	450.9790	0.9732	123.6401	0.6501	124.2902	32.9416	0.6042	33.5459		104,969.2763	104,969.2763	7.2343	4.4189	106,466.9604

Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

<b>Total</b>	155.0017	125.4639	824.3751	1.4738	123.6401	8.6593	132.2994	32.9416	8.6134	41.5550	0.0000	202,087.904 0	202,087.904 0	9.6708	6.1881	204,173.728 1
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**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	106.6713	65.8460	367.5743	0.4133		6.9030	6.9030		6.9030	6.9030	0.0000	79,652.9876	79,652.9876	2.1018	1.4490	80,137.3380
Energy	1.6010	13.6814	5.8219	0.0873		1.1062	1.1062		1.1062	1.1062		17,465.6402	17,465.6402	0.3348	0.3202	17,569.4298
Mobile	46.7293	45.9364	450.9790	0.9732	123.6401	0.6501	124.2902	32.9416	0.6042	33.5459		104,969.276 3	104,969.276 3	7.2343	4.4189	106,466.960 4
<b>Total</b>	155.0017	125.4639	824.3751	1.4738	123.6401	8.6593	132.2994	32.9416	8.6134	41.5550	0.0000	202,087.904 0	202,087.904 0	9.6708	6.1881	204,173.728 1

	ROG	NOx	CO	SO2	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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	46.7293	45.9364	450.9790	0.9732	123.6401	0.6501	124.2902	32.9416	0.6042	33.5459		104,969.276	104,969.276	7.2343	4.4189	106,466.960
Unmitigated	46.7293	45.9364	450.9790	0.9732	123.6401	0.6501	124.2902	32.9416	0.6042	33.5459		104,969.276	104,969.276	7.2343	4.4189	106,466.960

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	14,725.05	14,989.77	11879.31	43,116,453	43,116,453
Apartments Mid Rise	4,558.72	4,114.58	3427.42	13,009,668	13,009,668
Total	19,283.77	19,104.35	15,306.73	56,126,122	56,126,122

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	13.00	4.50	7.89	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	12.99	4.50	7.89	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments High Rise	0.529534	0.067658	0.193471	0.126518	0.024260	0.006985	0.011675	0.007885	0.000939	0.000569	0.026493	0.000724	0.0032
Apartments Mid Rise	0.529534	0.067658	0.193471	0.126518	0.024260	0.006985	0.011675	0.007885	0.000939	0.000569	0.026493	0.000724	0.0032

**5.0 Energy Detail**

Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive 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	1.6010	13.6814	5.8219	0.0873		1.1062	1.1062		1.1062	1.1062		17,465.6402	17,465.6402	0.3348	0.3202	17,569.4298
NaturalGas Unmitigated	1.6010	13.6814	5.8219	0.0873		1.1062	1.1062		1.1062	1.1062		17,465.6402	17,465.6402	0.3348	0.3202	17,569.4298

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	118458	1.2775	10.9168	4.6454	0.0697		0.8826	0.8826		0.8826	0.8826		13,936.2921	13,936.2921	0.2671	0.2555	14,019.1085
Apartments Mid Rise	29999.5	0.3235	2.7647	1.1765	0.0177		0.2235	0.2235		0.2235	0.2235		3,529.3481	3,529.3481	0.0677	0.0647	3,550.3212
<b>Total</b>		<b>1.6010</b>	<b>13.6814</b>	<b>5.8219</b>	<b>0.0873</b>		<b>1.1062</b>	<b>1.1062</b>		<b>1.1062</b>	<b>1.1062</b>		<b>17,465.6402</b>	<b>17,465.6402</b>	<b>0.3348</b>	<b>0.3202</b>	<b>17,569.4298</b>

Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	118.458	1.2775	10.9168	4.6454	0.0697		0.8826	0.8826		0.8826	0.8826		13,936.2921	13,936.2921	0.2671	0.2555	14,019.1085
Apartments Mid Rise	29.9995	0.3235	2.7647	1.1765	0.0177		0.2235	0.2235		0.2235	0.2235		3,529.3481	3,529.3481	0.0677	0.0647	3,550.3212
<b>Total</b>		<b>1.6010</b>	<b>13.6814</b>	<b>5.8219</b>	<b>0.0873</b>		<b>1.1062</b>	<b>1.1062</b>		<b>1.1062</b>	<b>1.1062</b>		<b>17,465.6402</b>	<b>17,465.6402</b>	<b>0.3348</b>	<b>0.3202</b>	<b>17,569.4298</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	106.6713	65.8460	367.5743	0.4133		6.9030	6.9030		6.9030	6.9030	0.0000	79,652.9876	79,652.9876	2.1018	1.4490	80,137.3380

Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

Unmitigated	106.6713	65.8460	367.5743	0.4133		6.9030	6.9030		6.9030	6.9030	0.0000	79,652.9876	79,652.9876	2.1018	1.4490	80,137.3380
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**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	7.1093					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	82.1106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.2451	61.9123	26.3457	0.3952		5.0057	5.0057		5.0057	5.0057	0.0000	79,036.9412	79,036.9412	1.5149	1.4490	79,506.6182
Landscaping	10.2064	3.9337	341.2286	0.0181		1.8974	1.8974		1.8974	1.8974		616.0464	616.0464	0.5869		630.7198
<b>Total</b>	<b>106.6713</b>	<b>65.8460</b>	<b>367.5743</b>	<b>0.4133</b>		<b>6.9030</b>	<b>6.9030</b>		<b>6.9030</b>	<b>6.9030</b>	<b>0.0000</b>	<b>79,652.9876</b>	<b>79,652.9876</b>	<b>2.1018</b>	<b>1.4490</b>	<b>80,137.3380</b>

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					

Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

Architectural Coating	7.1093				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	82.1106				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	7.2451	61.9123	26.3457	0.3952	5.0057	5.0057		5.0057	5.0057	0.0000	79,036.9412	79,036.9412	1.5149	1.4490	79,506.6182
Landscaping	10.2064	3.9337	341.2286	0.0181	1.8974	1.8974		1.8974	1.8974		616.0464	616.0464	0.5869		630.7198
<b>Total</b>	<b>106.6713</b>	<b>65.8460</b>	<b>367.5743</b>	<b>0.4133</b>	<b>6.9030</b>	<b>6.9030</b>		<b>6.9030</b>	<b>6.9030</b>	<b>0.0000</b>	<b>79,652.9876</b>	<b>79,652.9876</b>	<b>2.1018</b>	<b>1.4490</b>	<b>80,137.3380</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**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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Bellflower HE - Operations - Los Angeles-South Coast County, Winter

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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**CALEMOD VMT Calculator (UNMITIGATED SCENARIO)**

This calculator was created based on the default trip inputs for the unmitigated CALEMOT run. The calculator calculates the annual VMT from the proposed project using the same methodology from CALEMOT described in Appendix A, for the UNMITIGATED SCENARIO. This calculator can be used to adjust land use trip rates for the MITIGATED PROJECT scenario which is based on the traffic study conducted for the project.

**Daily VMT Provided by City**

161,733.00  
56,121,351.00

347 days per year

<https://www3.arb.ca.gov/calinventow/>

**Trip Type**

CALEMOD defaults based on land uses inputted

Land Use	Miles				Trip %				Trip Purpose		
	H-W or C-W	H-S or C-C	H-O or C-O	Total	H-W or C-W	H-S or C-C	H-O or C-O	Total	Primary	Diversed	Pass-by
Apartments Mid Rise	12.99	4.49	7.89	25.37	40.2%	19.2%	40.6%	60.0%	86.0%	11.0%	3.0%
Apartments High Rise	13.00	4.90	7.89	25.79	40.2%	19.2%	40.6%	60.0%	86.0%	11.0%	3.0%

**Total Trips**

Total Trips = (Triphome weekday x 5 + Trip Str + Trip Sun)

Average Daily Trips Based on CALEMOT Trip Gen Defaults per land use unit. Total trips Calculated

Land Use	Average Daily Trip Rate			Total Trips (Weekly)
	weekday	Saturday	Sunday	
Apartments Mid Rise	4,556.84	4,112.89	3426.009573	30323,11651
Apartments High Rise	14,726.58	14,991.33	11880.548	100504,403

**Trip Length Calc**

**AVG Trip Length = Link % primary x trip length primary / link % diverted + 25x length trip primary / link % passby + 0.1**

Trip length calculated for each trip type based on trip purpose % and length defaults from CALEMOT

Land Use

Apartments Mid Rise	link % primary	trip length		link % diverted	Constant (0.25)	link % passby	constant	Trip Length
		primary	diverted					
H-W or C-W	86.0%	12.99	4.49	11.0%	0.25	3.0%	0.1	11.5
H-S or C-C	86.0%	4.49	7.89	11.0%	0.25	3.0%	0.1	4.0
H-O or C-O	86.0%	7.89	7.89	11.0%	0.25	3.0%	0.1	7.0
<b>Apartments High Rise</b>	<b>link % primary</b>	<b>primary</b>	<b>diverted</b>	<b>link % diverted</b>	<b>Constant (0.25)</b>	<b>link % passby</b>	<b>constant</b>	
H-W or C-W	86.0%	13.00	4.50	11.0%	0.25	3.0%	0.1	11.5
H-S or C-C	86.0%	4.50	7.89	11.0%	0.25	3.0%	0.1	4.0
H-O or C-O	86.0%	7.89	7.89	11.0%	0.25	3.0%	0.1	7.0

**VMT Calc Per Land Use Type (Weekly)**

VMT = #Trips x AVG Trip Length per land use and trip type

Trip number for each trip type are derived by multiplying the total trips for each land use calculated above in the Total Trip Calc by the trip % shown in the Trip Type table for each land use

Apartments Mid Rise	# Trips	trip length	Weekly VMT	Annual VMT
H-W or C-W	12,190	11.5	140,569	56,122,574
H-S or C-C	5,822	4.0	23,218	9,285,168
H-O or C-O	12,311	7.0	86,244	34,287,280
<b>Apartments High Rise</b>				
H-W or C-W	40,403	11.5	466,270	186,508,050
H-S or C-C	19,297	4.0	77,125	30,811,600
H-O or C-O	40,805	7.0	285,854	114,114,400
<b>Total VMT</b>			<b>1,079,280</b>	<b>56,122,574.44</b>

**Annual VMT Calc**

the calculated weekly VMT for each land use is summed. This value is multiplied by 50 weeks/year to equal the annual VMT number calculated by CALEMOT

Summed Weekly VMT from Each Land Use	1,079,280.28	52,000	52,142,857.14
Weeks per Year CALEMOT Uses for Annual VMT	52.00		
Calculated Annual VMT	56,122,574	56,122,574	1,223,441
			153,760

### Construction Emissions Worksheet - Unmitigated

\*CalEEMod, Version 2020.4.0

Summer		2022		ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
				18.33	68.29	36.80	0.20	29.27	6.19
	Max			18.33	68.29	36.80	0.20	29.27	6.19
Winter		2022		ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
				18.44	70.02	35.38	0.20	29.27	6.19
	Max			18.44	70.02	35.38	0.20	29.27	6.19
<b>MAX DAILY</b>		<b>18</b>	<b>70</b>	<b>37</b>	<b>0</b>	<b>29</b>	<b>6</b>		

### Regional Thresholds Exceeds Thresholds?

75 No 100 No 550 No 150 No 150 No 55 No

# Operation Emissions Worksheet - Unmitigated

\* CAIEMod, Version 2020.4.0

## Existing Land Use - 2021

### Summer

	ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
Area	16.18	0.00	0.07	0.00	0.00	0.00
Energy	0.04	0.35	0.30	0.00	0.03	0.03
Mobile	84.79	85.42	718.97	1.37	129.87	35.52
<b>Total</b>	<b>101.00</b>	<b>85.77</b>	<b>719.34</b>	<b>1.37</b>	<b>129.90</b>	<b>35.55</b>

### Winter

	ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
Area	16.18	0.00	0.07	0.00	0.00	0.00
Energy	0.04	0.35	0.30	0.00	0.03	0.03
Mobile	82.86	91.92	713.49	1.31	129.88	35.52
<b>Total</b>	<b>99.07</b>	<b>92.27</b>	<b>713.86</b>	<b>1.31</b>	<b>129.90</b>	<b>35.55</b>

### Max Daily

	ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
Area	16.18	0.00	0.07	0.00	0.00	0.00
Energy	0.04	0.35	0.30	0.00	0.03	0.03
Mobile	84.79	91.92	718.97	1.37	129.88	35.52
<b>Total</b>	<b>101.00</b>	<b>92.27</b>	<b>719.34</b>	<b>1.37</b>	<b>129.90</b>	<b>35.55</b>

## Proposed Project - 2030

### Summer

	ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
Area	106.67	65.85	367.57	0.41	6.90	6.90
Energy	1.60	13.68	5.82	0.09	1.11	1.11
Mobile	47.72	42.60	455.43	1.02	124.29	33.55
<b>Total</b>	<b>155.99</b>	<b>122.13</b>	<b>828.83</b>	<b>1.52</b>	<b>132.30</b>	<b>41.55</b>

### Winter

	ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
Area	106.67	65.85	367.57	0.41	6.90	6.90
Energy	1.60	13.68	5.82	0.09	1.11	1.11
Mobile	46.73	43.94	450.98	0.97	124.29	33.55
<b>Total</b>	<b>155.00</b>	<b>125.46</b>	<b>824.38</b>	<b>1.47</b>	<b>132.30</b>	<b>41.56</b>

### Max Daily

	ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
Area	106.67	65.85	367.57	0.41	6.90	6.90
Energy	1.60	13.68	5.82	0.09	1.11	1.11
Mobile	47.72	45.94	455.43	1.02	124.29	33.55
<b>Total</b>	<b>155.99</b>	<b>125.46</b>	<b>828.83</b>	<b>1.52</b>	<b>132.30</b>	<b>41.56</b>

## Net Difference

	ROG	NOX	CO	SO2	PM10 Total	PM2.5 Total
Area	90.50	65.85	367.50	0.41	6.90	6.90
Energy	1.56	13.33	5.52	0.09	1.08	1.08
Mobile	-37.08	-45.98	-263.54	-0.35	-5.59	-1.98
<b>Total</b>	<b>54.98</b>	<b>33.19</b>	<b>109.49</b>	<b>0.14</b>	<b>2.40</b>	<b>6.00</b>

Regional Thresholds	55	55	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

## Build-Out Scenario Greenhouse Gas Emissions Summary

### Existing Land Use - 2021

	MT/yr	Bio-CO2	NBio-CO2	CO2 Total	CH4	N2O	CO2e	
Area Sources	0	1.80E-02	1.80E-02	5.00E-05	0	0	0.01920	0%
Energy Use	0	2,118.85	2,118.85	1.74E-01	2.23E-02	0	2,130	9%
Mobile Sources	0	20,445.94	20,445.94	1.72E+00	1.0558	0	20,804	88%
Waste Generation	154.263	0	154.263	9.1167	0	0	382	2%
Water/Wastewater	1.70E+01	1.89E+02	2.06E+02	1.76E+00	4.32E-02	1	262	1%
Total	171	22753	22925	13	1	1	23,578	100%

### Proposed Project - 2030

	MT/yr	Bio-CO2	NBio-CO2	CO2 Total	CH4	N2O	CO2e	
Area Sources	0	9.66E+02	9.66E+02	8.37E-02	0.0164	0	973	4%
Energy Use	0	6,801.53	6,801.53	2.94E-01	8.20E-02	0	6,833	25%
Mobile Sources	0	16,742.07	16,742.07	1.14E+00	0.701	0	16,979	62%
Waste Generation	387.2296	0	387.2296	22.8846	0	0	959	3%
Water/Wastewater	8.57E+01	1.33E+03	1,410.96	8.89E+00	2.18E-01	1	1,698	6%
Total	473	25835	26308	33	1	1	27,443	100%

### Net Emission Rates from Proposed Project

	MT/yr	Bio-CO2	NBio-CO2	CO2 Total	CH4	N2O	CO2e	
Area Sources	0	966.1043	966.1043	0.08365	0.0164	0	973.09	25%
Energy Use	0	4682.677	4682.677	0.1201	0.0597	0	4,703	121%
Mobile Sources	0	-3703.87	-3703.87	-0.5839	-0.3548	0	-3,824	-98%
Waste Generation	232.9666	0	232.9666	13.7679	0	0	577	15%
Water/Wastewater	68,7118	1136.699	1205.411	7.1225	0.1745	1	1,435.5	37%
Amortized Construction							33	1%
<b>Total</b>	<b>301.68</b>	<b>3081.608</b>	<b>3383.287</b>	<b>20.5103</b>	<b>-0.1041</b>	<b>1</b>	<b>3,898</b>	<b>100%</b>

### SCAQMD 2035 Project Efficiency Threshold

Project Emissions	27,706
Project Population	13,644
Project Efficiency Metric	<b>2.0</b>
CAP Emissions Target (SB32)	170,130
CAP 2030 Population	79,733
CAP Efficiency Metric	<b>2.1</b>
Exceeds Threshold	<b>No</b>

### Construction

	Const.	Const.
Unmitigated	984	
2022		7,875
<b>Total Construction</b>	<b>984</b>	<b>7,875</b>
<b>30-Year Amortization</b>	<b>33</b>	<b>263</b>