

**Appendix 4.2-1**  
**Criteria Air Pollution Emissions**  
**Modeling for the Project**



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

**Construction  
Yolo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	480.00	1000sqft	5.70	480,000.00	0
Government Office Building	60.00	1000sqft	5.70	60,000.00	0
High Turnover (Sit Down Restaurant)	30.30	1000sqft	5.70	30,295.00	0
Apartments Low Rise	1,000.00	Dwelling Unit	5.70	1,000,000.00	2860
Strip Mall	30.18	1000sqft	5.70	30,175.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - See assumptions file for details.

Construction Phase - Assumes all activities overlap for modeling purposes.

Demolition -

Trips and VMT - Assumes 1 water truck and 4 trips per water truck per day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	4/26/2024	2/18/2022

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tblConstructionPhase	PhaseEndDate	1/19/2024	9/8/2023
tblConstructionPhase	PhaseEndDate	5/13/2022	3/4/2022
tblConstructionPhase	PhaseEndDate	3/8/2024	2/18/2022
tblConstructionPhase	PhaseEndDate	3/11/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	3/9/2024	1/3/2022
tblConstructionPhase	PhaseStartDate	5/14/2022	1/3/2022
tblConstructionPhase	PhaseStartDate	3/12/2022	1/3/2022
tblConstructionPhase	PhaseStartDate	1/20/2024	1/3/2022
tblConstructionPhase	PhaseStartDate	2/12/2022	1/3/2022
tblLandUse	LotAcreage	11.02	5.70
tblLandUse	LotAcreage	1.38	5.70
tblLandUse	LotAcreage	0.70	5.70
tblLandUse	LotAcreage	62.50	5.70
tblLandUse	LotAcreage	0.69	5.70
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

**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	6.4507	5.6312	6.7453	0.0206	1.8327	0.2067	2.0394	0.5300	0.1931	0.7231	0.0000	1,889.3314	1,889.3314	0.1752	0.1152	1,928.0267

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

2023	0.3784	2.2145	3.3945	0.0111	0.7228	0.0705	0.7932	0.1949	0.0663	0.2612	0.0000	1,028.4838	1,028.4838	0.0651	0.0659	1,049.7492
<b>Maximum</b>	<b>6.4507</b>	<b>5.6312</b>	<b>6.7453</b>	<b>0.0206</b>	<b>1.8327</b>	<b>0.2067</b>	<b>2.0394</b>	<b>0.5300</b>	<b>0.1931</b>	<b>0.7231</b>	<b>0.0000</b>	<b>1,889.3314</b>	<b>1,889.3314</b>	<b>0.1752</b>	<b>0.1152</b>	<b>1,928.0267</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	6.4507	5.6312	6.7453	0.0206	1.8327	0.2067	2.0394	0.5300	0.1931	0.7231	0.0000	1,889.3307	1,889.3307	0.1752	0.1152	1,928.0261
2023	0.3784	2.2145	3.3945	0.0111	0.7228	0.0705	0.7932	0.1949	0.0663	0.2612	0.0000	1,028.4836	1,028.4836	0.0651	0.0659	1,049.7490
<b>Maximum</b>	<b>6.4507</b>	<b>5.6312</b>	<b>6.7453</b>	<b>0.0206</b>	<b>1.8327</b>	<b>0.2067</b>	<b>2.0394</b>	<b>0.5300</b>	<b>0.1931</b>	<b>0.7231</b>	<b>0.0000</b>	<b>1,889.3307</b>	<b>1,889.3307</b>	<b>0.1752</b>	<b>0.1152</b>	<b>1,928.0261</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
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

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
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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2022	4-2-2022	8.6291	8.6291
2	4-3-2022	7-2-2022	1.0379	1.0379
3	7-3-2022	10-2-2022	1.0499	1.0499
4	10-3-2022	1-2-2023	1.0724	1.0724
5	1-3-2023	4-2-2023	0.9418	0.9418
6	4-3-2023	7-2-2023	0.9310	0.9310
7	7-3-2023	9-30-2023	0.6957	0.6957
		Highest	8.6291	8.6291

**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	99.9584	1.7244	122.2807	0.2079		16.1512	16.1512		16.1512	16.1512	1,535.4409	445.3469	1,980.7879	1.4466	0.1165	2,051.6670
Energy	0.1300	1.1476	0.7414	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,286.6150	1,286.6150	0.0247	0.0236	1,294.2607
Mobile	4.3657	7.3407	42.8713	0.0937	12.2262	0.0543	12.2805	3.2798	0.0510	3.3308	0.0000	9,444.9294	9,444.9294	0.6146	0.5613	9,627.5636
Waste						0.0000	0.0000		0.0000	0.0000	274.9431	0.0000	274.9431	16.2487	0.0000	681.1600
Water						0.0000	0.0000		0.0000	0.0000	55.1446	0.0000	55.1446	5.6639	0.1337	236.5949
<b>Total</b>	<b>104.4542</b>	<b>10.2127</b>	<b>165.8934</b>	<b>0.3087</b>	<b>12.2262</b>	<b>16.2953</b>	<b>28.5215</b>	<b>3.2798</b>	<b>16.2921</b>	<b>19.5718</b>	<b>1,865.5286</b>	<b>11,176.8913</b>	<b>13,042.4199</b>	<b>23.9984</b>	<b>0.8351</b>	<b>13,891.2462</b>

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

## Construction - Yolo County, Annual

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

**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	99.9584	1.7244	122.2807	0.2079		16.1512	16.1512		16.1512	16.1512	1,535.4409	445.3469	1,980.7879	1.4466	0.1165	2,051.6670
Energy	0.1300	1.1476	0.7414	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,286.6150	1,286.6150	0.0247	0.0236	1,294.2607
Mobile	4.3657	7.3407	42.8713	0.0937	12.2262	0.0543	12.2805	3.2798	0.0510	3.3308	0.0000	9,444.9294	9,444.9294	0.6146	0.5613	9,627.5636
Waste						0.0000	0.0000		0.0000	0.0000	274.9431	0.0000	274.9431	16.2487	0.0000	681.1600
Water						0.0000	0.0000		0.0000	0.0000	55.1446	0.0000	55.1446	5.6639	0.1337	236.5949
<b>Total</b>	<b>104.4542</b>	<b>10.2127</b>	<b>165.8934</b>	<b>0.3087</b>	<b>12.2262</b>	<b>16.2953</b>	<b>28.5215</b>	<b>3.2798</b>	<b>16.2921</b>	<b>19.5718</b>	<b>1,865.5286</b>	<b>11,176.8913</b>	<b>13,042.4199</b>	<b>23.9984</b>	<b>0.8351</b>	<b>13,891.2462</b>

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	2/11/2022	5	30	
2	Site Preparation	Site Preparation	1/3/2022	1/28/2022	5	20	
3	Grading	Grading	1/3/2022	3/4/2022	5	45	



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

4	Building Construction	Building Construction	1/3/2022	9/8/2023	5	440
5	Paving	Paving	1/3/2022	2/18/2022	5	35
6	Architectural Coating	Architectural Coating	1/3/2022	2/18/2022	5	35

**Acres of Grading (Site Preparation Phase): 30****Acres of Grading (Grading Phase): 135****Acres of Paving: 0****Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 900,705; Non-Residential Outdoor: 300,235; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37

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Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

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	4.00	3,017.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	4.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	915.00	205.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	183.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2022**Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3265	0.0000	0.3265	0.0494	0.0000	0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.3858	0.3089	5.8000e-004		0.0186	0.0186		0.0173	0.0173	0.0000	50.9853	50.9853	0.0143	0.0000	51.3434
<b>Total</b>	<b>0.0396</b>	<b>0.3858</b>	<b>0.3089</b>	<b>5.8000e-004</b>	<b>0.3265</b>	<b>0.0186</b>	<b>0.3451</b>	<b>0.0494</b>	<b>0.0173</b>	<b>0.0668</b>	<b>0.0000</b>	<b>50.9853</b>	<b>50.9853</b>	<b>0.0143</b>	<b>0.0000</b>	<b>51.3434</b>

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**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	tons/yr										MT/yr					
Hauling	5.5700e-003	0.2294	0.0431	9.6000e-004	0.0256	2.1300e-003	0.0277	7.0200e-003	2.0400e-003	9.0600e-003	0.0000	92.4105	92.4105	2.9000e-004	0.0145	96.7459
Vendor	9.0000e-005	2.9600e-003	7.8000e-004	1.0000e-005	3.8000e-004	3.0000e-005	4.0000e-004	1.1000e-004	3.0000e-005	1.3000e-004	0.0000	1.1389	1.1389	0.0000	1.8000e-004	1.1915
Worker	6.5000e-004	4.3000e-004	5.0800e-003	1.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3499	1.3499	4.0000e-005	4.0000e-005	1.3629
<b>Total</b>	<b>6.3100e-003</b>	<b>0.2328</b>	<b>0.0490</b>	<b>9.8000e-004</b>	<b>0.0276</b>	<b>2.1700e-003</b>	<b>0.0298</b>	<b>7.5700e-003</b>	<b>2.0800e-003</b>	<b>9.6400e-003</b>	<b>0.0000</b>	<b>94.8993</b>	<b>94.8993</b>	<b>3.3000e-004</b>	<b>0.0147</b>	<b>99.3003</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					0.3265	0.0000	0.3265	0.0494	0.0000	0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.3858	0.3089	5.8000e-004		0.0186	0.0186		0.0173	0.0173	0.0000	50.9853	50.9853	0.0143	0.0000	51.3433
<b>Total</b>	<b>0.0396</b>	<b>0.3858</b>	<b>0.3089</b>	<b>5.8000e-004</b>	<b>0.3265</b>	<b>0.0186</b>	<b>0.3451</b>	<b>0.0494</b>	<b>0.0173</b>	<b>0.0668</b>	<b>0.0000</b>	<b>50.9853</b>	<b>50.9853</b>	<b>0.0143</b>	<b>0.0000</b>	<b>51.3433</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	5.5700e-003	0.2294	0.0431	9.6000e-004	0.0256	2.1300e-003	0.0277	7.0200e-003	2.0400e-003	9.0600e-003	0.0000	92.4105	92.4105	2.9000e-004	0.0145	96.7459
Vendor	9.0000e-005	2.9600e-003	7.8000e-004	1.0000e-005	3.8000e-004	3.0000e-005	4.0000e-004	1.1000e-004	3.0000e-005	1.3000e-004	0.0000	1.1389	1.1389	0.0000	1.8000e-004	1.1915
Worker	6.5000e-004	4.3000e-004	5.0800e-003	1.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3499	1.3499	4.0000e-005	4.0000e-005	1.3629
<b>Total</b>	<b>6.3100e-003</b>	<b>0.2328</b>	<b>0.0490</b>	<b>9.8000e-004</b>	<b>0.0276</b>	<b>2.1700e-003</b>	<b>0.0298</b>	<b>7.5700e-003</b>	<b>2.0800e-003</b>	<b>9.6400e-003</b>	<b>0.0000</b>	<b>94.8993</b>	<b>94.8993</b>	<b>3.3000e-004</b>	<b>0.0147</b>	<b>99.3003</b>

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

## 3.3 Site Preparation - 2022

Unmitigated Construction 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					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3308	0.1970	3.8000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	33.4394	33.4394	0.0108	0.0000	33.7098
<b>Total</b>	<b>0.0317</b>	<b>0.3308</b>	<b>0.1970</b>	<b>3.8000e-004</b>	<b>0.1966</b>	<b>0.0161</b>	<b>0.2127</b>	<b>0.1010</b>	<b>0.0148</b>	<b>0.1159</b>	<b>0.0000</b>	<b>33.4394</b>	<b>33.4394</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7098</b>

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7593	0.7593	0.0000	1.2000e-004	0.7943
Worker	5.2000e-004	3.4000e-004	4.0600e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0799	1.0799	4.0000e-005	3.0000e-005	1.0903
<b>Total</b>	<b>5.8000e-004</b>	<b>2.3200e-003</b>	<b>4.5800e-003</b>	<b>2.0000e-005</b>	<b>1.5800e-003</b>	<b>3.0000e-005</b>	<b>1.6000e-003</b>	<b>4.2000e-004</b>	<b>3.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.8392</b>	<b>1.8392</b>	<b>4.0000e-005</b>	<b>1.5000e-004</b>	<b>1.8846</b>

## Construction - Yolo County, Annual

## 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					0.1966	0.0000	0.1966	0.1010	0.0000	0.1010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.3308	0.1970	3.8000e-004		0.0161	0.0161		0.0148	0.0148	0.0000	33.4394	33.4394	0.0108	0.0000	33.7097
<b>Total</b>	<b>0.0317</b>	<b>0.3308</b>	<b>0.1970</b>	<b>3.8000e-004</b>	<b>0.1966</b>	<b>0.0161</b>	<b>0.2127</b>	<b>0.1010</b>	<b>0.0148</b>	<b>0.1159</b>	<b>0.0000</b>	<b>33.4394</b>	<b>33.4394</b>	<b>0.0108</b>	<b>0.0000</b>	<b>33.7097</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7593	0.7593	0.0000	1.2000e-004	0.7943
Worker	5.2000e-004	3.4000e-004	4.0600e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0799	1.0799	4.0000e-005	3.0000e-005	1.0903
<b>Total</b>	<b>5.8000e-004</b>	<b>2.3200e-003</b>	<b>4.5800e-003</b>	<b>2.0000e-005</b>	<b>1.5800e-003</b>	<b>3.0000e-005</b>	<b>1.6000e-003</b>	<b>4.2000e-004</b>	<b>3.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.8392</b>	<b>1.8392</b>	<b>4.0000e-005</b>	<b>1.5000e-004</b>	<b>1.8846</b>

## Construction - Yolo County, Annual

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

## 3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2071	0.0000	0.2071	0.0822	0.0000	0.0822	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0816	0.8740	0.6534	1.4000e-003		0.0368	0.0368		0.0338	0.0338	0.0000	122.7029	122.7029	0.0397	0.0000	123.6950
<b>Total</b>	<b>0.0816</b>	<b>0.8740</b>	<b>0.6534</b>	<b>1.4000e-003</b>	<b>0.2071</b>	<b>0.0368</b>	<b>0.2439</b>	<b>0.0822</b>	<b>0.0338</b>	<b>0.1161</b>	<b>0.0000</b>	<b>122.7029</b>	<b>122.7029</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6950</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	1.4000e-004	4.4500e-003	1.1700e-003	2.0000e-005	5.7000e-004	4.0000e-005	6.1000e-004	1.6000e-004	4.0000e-005	2.0000e-004	0.0000	1.7084	1.7084	1.0000e-005	2.6000e-004	1.7872
Worker	1.3000e-003	8.6000e-004	0.0102	3.0000e-005	3.3100e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6998	2.6998	9.0000e-005	8.0000e-005	2.7259
<b>Total</b>	<b>1.4400e-003</b>	<b>5.3100e-003</b>	<b>0.0113</b>	<b>5.0000e-005</b>	<b>3.8800e-003</b>	<b>6.0000e-005</b>	<b>3.9400e-003</b>	<b>1.0400e-003</b>	<b>6.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>4.4082</b>	<b>4.4082</b>	<b>1.0000e-004</b>	<b>3.4000e-004</b>	<b>4.5130</b>

## Construction - Yolo County, Annual

## 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					0.2071	0.0000	0.2071	0.0822	0.0000	0.0822	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0816	0.8740	0.6534	1.4000e-003		0.0368	0.0368		0.0338	0.0338	0.0000	122.7027	122.7027	0.0397	0.0000	123.6948
<b>Total</b>	<b>0.0816</b>	<b>0.8740</b>	<b>0.6534</b>	<b>1.4000e-003</b>	<b>0.2071</b>	<b>0.0368</b>	<b>0.2439</b>	<b>0.0822</b>	<b>0.0338</b>	<b>0.1161</b>	<b>0.0000</b>	<b>122.7027</b>	<b>122.7027</b>	<b>0.0397</b>	<b>0.0000</b>	<b>123.6948</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	1.4000e-004	4.4500e-003	1.1700e-003	2.0000e-005	5.7000e-004	4.0000e-005	6.1000e-004	1.6000e-004	4.0000e-005	2.0000e-004	0.0000	1.7084	1.7084	1.0000e-005	2.6000e-004	1.7872
Worker	1.3000e-003	8.6000e-004	0.0102	3.0000e-005	3.3100e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6998	2.6998	9.0000e-005	8.0000e-005	2.7259
<b>Total</b>	<b>1.4400e-003</b>	<b>5.3100e-003</b>	<b>0.0113</b>	<b>5.0000e-005</b>	<b>3.8800e-003</b>	<b>6.0000e-005</b>	<b>3.9400e-003</b>	<b>1.0400e-003</b>	<b>6.0000e-005</b>	<b>1.1000e-003</b>	<b>0.0000</b>	<b>4.4082</b>	<b>4.4082</b>	<b>1.0000e-004</b>	<b>3.4000e-004</b>	<b>4.5130</b>



## Construction - Yolo County, Annual

## 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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2428</b>	<b>301.2428</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0471</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	0.0420	1.3164	0.3452	5.2700e-003	0.1683	0.0116	0.1799	0.0486	0.0111	0.0597	0.0000	505.8642	505.8642	2.0300e-003	0.0782	529.2028
Worker	0.3426	0.2278	2.6836	7.7300e-003	0.8758	4.5700e-003	0.8803	0.2329	4.2100e-003	0.2371	0.0000	713.6453	713.6453	0.0234	0.0212	720.5347
<b>Total</b>	<b>0.3846</b>	<b>1.5442</b>	<b>3.0288</b>	<b>0.0130</b>	<b>1.0440</b>	<b>0.0162</b>	<b>1.0602</b>	<b>0.2815</b>	<b>0.0153</b>	<b>0.2968</b>	<b>0.0000</b>	<b>1,219.5095</b>	<b>1,219.5095</b>	<b>0.0254</b>	<b>0.0993</b>	<b>1,249.7375</b>

## Construction - Yolo County, Annual

**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	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
<b>Total</b>	<b>0.2218</b>	<b>2.0300</b>	<b>2.1272</b>	<b>3.5000e-003</b>		<b>0.1052</b>	<b>0.1052</b>		<b>0.0990</b>	<b>0.0990</b>	<b>0.0000</b>	<b>301.2425</b>	<b>301.2425</b>	<b>0.0722</b>	<b>0.0000</b>	<b>303.0467</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	0.0420	1.3164	0.3452	5.2700e-003	0.1683	0.0116	0.1799	0.0486	0.0111	0.0597	0.0000	505.8642	505.8642	2.0300e-003	0.0782	529.2028
Worker	0.3426	0.2278	2.6836	7.7300e-003	0.8758	4.5700e-003	0.8803	0.2329	4.2100e-003	0.2371	0.0000	713.6453	713.6453	0.0234	0.0212	720.5347
<b>Total</b>	<b>0.3846</b>	<b>1.5442</b>	<b>3.0288</b>	<b>0.0130</b>	<b>1.0440</b>	<b>0.0162</b>	<b>1.0602</b>	<b>0.2815</b>	<b>0.0153</b>	<b>0.2968</b>	<b>0.0000</b>	<b>1,219.5095</b>	<b>1,219.5095</b>	<b>0.0254</b>	<b>0.0993</b>	<b>1,249.7375</b>

Construction - Yolo County, Annual

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

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1416	1.2946	1.4620	2.4300e-003		0.0630	0.0630		0.0593	0.0593	0.0000	208.6243	208.6243	0.0496	0.0000	209.8650
<b>Total</b>	<b>0.1416</b>	<b>1.2946</b>	<b>1.4620</b>	<b>2.4300e-003</b>		<b>0.0630</b>	<b>0.0630</b>		<b>0.0593</b>	<b>0.0593</b>	<b>0.0000</b>	<b>208.6243</b>	<b>208.6243</b>	<b>0.0496</b>	<b>0.0000</b>	<b>209.8650</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	0.0171	0.7806	0.2143	3.5300e-003	0.1165	4.4900e-003	0.1210	0.0337	4.2900e-003	0.0379	0.0000	338.7269	338.7269	8.8000e-004	0.0523	354.3455
Worker	0.2197	0.1392	1.7182	5.1800e-003	0.6063	2.9900e-003	0.6093	0.1612	2.7600e-003	0.1640	0.0000	481.1327	481.1327	0.0146	0.0136	485.5388
<b>Total</b>	<b>0.2368</b>	<b>0.9198</b>	<b>1.9325</b>	<b>8.7100e-003</b>	<b>0.7228</b>	<b>7.4800e-003</b>	<b>0.7302</b>	<b>0.1949</b>	<b>7.0500e-003</b>	<b>0.2019</b>	<b>0.0000</b>	<b>819.8596</b>	<b>819.8596</b>	<b>0.0155</b>	<b>0.0659</b>	<b>839.8842</b>

## Construction - Yolo County, Annual

**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	0.1416	1.2946	1.4620	2.4300e-003		0.0630	0.0630		0.0593	0.0593	0.0000	208.6240	208.6240	0.0496	0.0000	209.8647
<b>Total</b>	<b>0.1416</b>	<b>1.2946</b>	<b>1.4620</b>	<b>2.4300e-003</b>		<b>0.0630</b>	<b>0.0630</b>		<b>0.0593</b>	<b>0.0593</b>	<b>0.0000</b>	<b>208.6240</b>	<b>208.6240</b>	<b>0.0496</b>	<b>0.0000</b>	<b>209.8647</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	0.0171	0.7806	0.2143	3.5300e-003	0.1165	4.4900e-003	0.1210	0.0337	4.2900e-003	0.0379	0.0000	338.7269	338.7269	8.8000e-004	0.0523	354.3455
Worker	0.2197	0.1392	1.7182	5.1800e-003	0.6063	2.9900e-003	0.6093	0.1612	2.7600e-003	0.1640	0.0000	481.1327	481.1327	0.0146	0.0136	485.5388
<b>Total</b>	<b>0.2368</b>	<b>0.9198</b>	<b>1.9325</b>	<b>8.7100e-003</b>	<b>0.7228</b>	<b>7.4800e-003</b>	<b>0.7302</b>	<b>0.1949</b>	<b>7.0500e-003</b>	<b>0.2019</b>	<b>0.0000</b>	<b>819.8596</b>	<b>819.8596</b>	<b>0.0155</b>	<b>0.0659</b>	<b>839.8842</b>

## Construction - Yolo County, Annual

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

## 3.6 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	0.0193	0.1947	0.2552	4.0000e-004		9.9400e-003	9.9400e-003		9.1400e-003	9.1400e-003	0.0000	35.0482	35.0482	0.0113	0.0000	35.3316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0193</b>	<b>0.1947</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>9.9400e-003</b>	<b>9.9400e-003</b>		<b>9.1400e-003</b>	<b>9.1400e-003</b>	<b>0.0000</b>	<b>35.0482</b>	<b>35.0482</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3316</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	7.6000e-004	5.0000e-004	5.9200e-003	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5749	1.5749	5.0000e-005	5.0000e-005	1.5901
<b>Total</b>	<b>7.6000e-004</b>	<b>5.0000e-004</b>	<b>5.9200e-003</b>	<b>2.0000e-005</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>1.9400e-003</b>	<b>5.1000e-004</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.5749</b>	<b>1.5749</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.5901</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	0.0193	0.1947	0.2552	4.0000e-004		9.9400e-003	9.9400e-003		9.1400e-003	9.1400e-003	0.0000	35.0482	35.0482	0.0113	0.0000	35.3316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0193</b>	<b>0.1947</b>	<b>0.2552</b>	<b>4.0000e-004</b>		<b>9.9400e-003</b>	<b>9.9400e-003</b>		<b>9.1400e-003</b>	<b>9.1400e-003</b>	<b>0.0000</b>	<b>35.0482</b>	<b>35.0482</b>	<b>0.0113</b>	<b>0.0000</b>	<b>35.3316</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	7.6000e-004	5.0000e-004	5.9200e-003	2.0000e-005	1.9300e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.5749	1.5749	5.0000e-005	5.0000e-005	1.5901
<b>Total</b>	<b>7.6000e-004</b>	<b>5.0000e-004</b>	<b>5.9200e-003</b>	<b>2.0000e-005</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>1.9400e-003</b>	<b>5.1000e-004</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.5749</b>	<b>1.5749</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>1.5901</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 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	5.6503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755
<b>Total</b>	<b>5.6539</b>	<b>0.0247</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>1.4300e-003</b>	<b>1.4300e-003</b>		<b>1.4300e-003</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>4.4755</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	9.2200e-003	6.1300e-003	0.0723	2.1000e-004	0.0236	1.2000e-004	0.0237	6.2700e-003	1.1000e-004	6.3800e-003	0.0000	19.2135	19.2135	6.3000e-004	5.7000e-004	19.3990
<b>Total</b>	<b>9.2200e-003</b>	<b>6.1300e-003</b>	<b>0.0723</b>	<b>2.1000e-004</b>	<b>0.0236</b>	<b>1.2000e-004</b>	<b>0.0237</b>	<b>6.2700e-003</b>	<b>1.1000e-004</b>	<b>6.3800e-003</b>	<b>0.0000</b>	<b>19.2135</b>	<b>19.2135</b>	<b>6.3000e-004</b>	<b>5.7000e-004</b>	<b>19.3990</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	5.6503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5800e-003	0.0247	0.0317	5.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	4.4682	4.4682	2.9000e-004	0.0000	4.4755
<b>Total</b>	<b>5.6539</b>	<b>0.0247</b>	<b>0.0317</b>	<b>5.0000e-005</b>		<b>1.4300e-003</b>	<b>1.4300e-003</b>		<b>1.4300e-003</b>	<b>1.4300e-003</b>	<b>0.0000</b>	<b>4.4682</b>	<b>4.4682</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>4.4755</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	9.2200e-003	6.1300e-003	0.0723	2.1000e-004	0.0236	1.2000e-004	0.0237	6.2700e-003	1.1000e-004	6.3800e-003	0.0000	19.2135	19.2135	6.3000e-004	5.7000e-004	19.3990
<b>Total</b>	<b>9.2200e-003</b>	<b>6.1300e-003</b>	<b>0.0723</b>	<b>2.1000e-004</b>	<b>0.0236</b>	<b>1.2000e-004</b>	<b>0.0237</b>	<b>6.2700e-003</b>	<b>1.1000e-004</b>	<b>6.3800e-003</b>	<b>0.0000</b>	<b>19.2135</b>	<b>19.2135</b>	<b>6.3000e-004</b>	<b>5.7000e-004</b>	<b>19.3990</b>



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

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3657	7.3407	42.8713	0.0937	12.2262	0.0543	12.2805	3.2798	0.0510	3.3308	0.0000	9,444.9294	9,444.9294	0.6146	0.5613	9,627.5636
Unmitigated	4.3657	7.3407	42.8713	0.0937	12.2262	0.0543	12.2805	3.2798	0.0510	3.3308	0.0000	9,444.9294	9,444.9294	0.6146	0.5613	9,627.5636

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	7,320.00	8,140.00	6280.00	19,127,092	19,127,092
General Office Building	4,675.20	1,060.80	336.00	7,408,388	7,408,388
Government Office Building	1,355.40	0.00	0.00	1,397,194	1,397,194
High Turnover (Sit Down Restaurant)	3,398.49	3,708.11	4321.28	3,228,249	3,228,249
Strip Mall	1,337.36	1,268.56	616.48	1,529,091	1,529,091
Total	18,086.45	14,177.47	11,553.75	32,690,014	32,690,014

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	5.00	7.00	46.00	13.00	41.00	86	11	3

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General Office Building	10.00	5.00	7.00	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	7.00	33.00	62.00	5.00	50	34	16
High Turnover (Sit Down	10.00	5.00	7.00	8.50	72.50	19.00	37	20	43
Strip Mall	10.00	5.00	7.00	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
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

**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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.1300	1.1476	0.7414	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,286.6150	1,286.6150	0.0247	0.0236	1,294.2607
NaturalGas Unmitigated	0.1300	1.1476	0.7414	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,286.6150	1,286.6150	0.0247	0.0236	1,294.2607

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

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

## 5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.16564e+007	0.0629	0.5371	0.2286	3.4300e-003		0.0434	0.0434		0.0434	0.0434	0.0000	622.0283	622.0283	0.0119	0.0114	625.7247
General Office Building	7.824e+006	0.0422	0.3835	0.3222	2.3000e-003		0.0292	0.0292		0.0292	0.0292	0.0000	417.5184	417.5184	8.0000e-003	7.6500e-003	419.9995
Government Office Building	978000	5.2700e-003	0.0479	0.0403	2.9000e-004		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	52.1898	52.1898	1.0000e-003	9.6000e-004	52.4999
High Turnover (Sit Down Restaurant)	3.30246e+006	0.0178	0.1619	0.1360	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	176.2317	176.2317	3.3800e-003	3.2300e-003	177.2790
Strip Mall	349427	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	18.6467	18.6467	3.6000e-004	3.4000e-004	18.7575
<b>Total</b>		<b>0.1300</b>	<b>1.1476</b>	<b>0.7414</b>	<b>7.0900e-003</b>		<b>0.0898</b>	<b>0.0898</b>		<b>0.0898</b>	<b>0.0898</b>	<b>0.0000</b>	<b>1,286.6150</b>	<b>1,286.6150</b>	<b>0.0247</b>	<b>0.0236</b>	<b>1,294.2607</b>

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**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	tons/yr										MT/yr					
Apartments Low Rise	1.16564e+007	0.0629	0.5371	0.2286	3.4300e-003		0.0434	0.0434		0.0434	0.0434	0.0000	622.0283	622.0283	0.0119	0.0114	625.7247
General Office Building	7.824e+006	0.0422	0.3835	0.3222	2.3000e-003		0.0292	0.0292		0.0292	0.0292	0.0000	417.5184	417.5184	8.0000e-003	7.6500e-003	419.9995
Government Office Building	978000	5.2700e-003	0.0479	0.0403	2.9000e-004		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	52.1898	52.1898	1.0000e-003	9.6000e-004	52.4999
High Turnover (Sit Down Restaurant)	3.30246e+006	0.0178	0.1619	0.1360	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	176.2317	176.2317	3.3800e-003	3.2300e-003	177.2790
Strip Mall	349427	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	18.6467	18.6467	3.6000e-004	3.4000e-004	18.7575
<b>Total</b>		<b>0.1300</b>	<b>1.1476</b>	<b>0.7414</b>	<b>7.0900e-003</b>		<b>0.0898</b>	<b>0.0898</b>		<b>0.0898</b>	<b>0.0898</b>	<b>0.0000</b>	<b>1,286.6150</b>	<b>1,286.6150</b>	<b>0.0247</b>	<b>0.0236</b>	<b>1,294.2607</b>

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

## 5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Low Rise	4.09199e+006		0.0000	0.0000	0.0000	0.0000
General Office Building	4.6368e+006		0.0000	0.0000	0.0000	0.0000
Government Office Building	579600		0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	930057		0.0000	0.0000	0.0000	0.0000
Strip Mall	343090		0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**Mitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Low Rise	4.09199e+006		0.0000	0.0000	0.0000	0.0000
General Office Building	4.6368e+006		0.0000	0.0000	0.0000	0.0000
Government Office Building	579600		0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	930057		0.0000	0.0000	0.0000	0.0000
Strip Mall	343090		0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					

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Mitigated	99.9584	1.7244	122.2807	0.2079		16.1512	16.1512		16.1512	16.1512	1,535.4409	445.3469	1,980.7879	1.4466	0.1165	2,051.6670
Unmitigated	99.9584	1.7244	122.2807	0.2079		16.1512	16.1512		16.1512	16.1512	1,535.4409	445.3469	1,980.7879	1.4466	0.1165	2,051.6670

**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	0.5650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.2506					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	92.9212	1.6390	114.8827	0.2075		16.1100	16.1100		16.1100	16.1100	1,535.4409	433.2074	1,968.6483	1.4350	0.1165	2,039.2382
Landscaping	0.2216	0.0854	7.3980	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1395	12.1395	0.0116	0.0000	12.4288
<b>Total</b>	<b>99.9585</b>	<b>1.7244</b>	<b>122.2807</b>	<b>0.2079</b>		<b>16.1512</b>	<b>16.1512</b>		<b>16.1512</b>	<b>16.1512</b>	<b>1,535.4409</b>	<b>445.3469</b>	<b>1,980.7879</b>	<b>1.4466</b>	<b>0.1165</b>	<b>2,051.6670</b>



Construction - Yolo County, Annual

**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	0.5650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.2506					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	92.9212	1.6390	114.8827	0.2075		16.1100	16.1100		16.1100	16.1100	1,535.4409	433.2074	1,968.6483	1.4350	0.1165	2,039.2382
Landscaping	0.2216	0.0854	7.3980	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1395	12.1395	0.0116	0.0000	12.4288
<b>Total</b>	<b>99.9585</b>	<b>1.7244</b>	<b>122.2807</b>	<b>0.2079</b>		<b>16.1512</b>	<b>16.1512</b>		<b>16.1512</b>	<b>16.1512</b>	<b>1,535.4409</b>	<b>445.3469</b>	<b>1,980.7879</b>	<b>1.4466</b>	<b>0.1165</b>	<b>2,051.6670</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr		
Mitigated	55.1446	5.6639	0.1337	236.5949

## Construction - Yolo County, Annual

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

Unmitigated		55.1446	5.6639	0.1337	236.5949
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**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Low Rise	65.154 / 41.0754		20.6704	2.1230	0.0501	88.6851
General Office Building	85.3122 / 52.2881		27.0656	2.7799	0.0656	116.1237
Government Office Building	11.9196 / 7.30555		3.7815	0.3884	9.1700e-003	16.2245
High Turnover (Sit Down Restaurant)	9.19707 / 0.587047		2.9178	0.2997	7.0800e-003	12.5187
Strip Mall	2.23551 / 1.37015		0.7092	0.0728	1.7200e-003	3.0429
<b>Total</b>			<b>55.1446</b>	<b>5.6639</b>	<b>0.1337</b>	<b>236.5949</b>

Construction - Yolo County, Annual

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

Construction - Yolo County, Annual

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

**Mitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Low Rise	65.154 / 41.0754		20.6704	2.1230	0.0501	88.6851
General Office Building	85.3122 / 52.2881		27.0656	2.7799	0.0656	116.1237
Government Office Building	11.9196 / 7.30555		3.7815	0.3884	9.1700e-003	16.2245
High Turnover (Sit Down Restaurant)	9.19707 / 0.587047		2.9178	0.2997	7.0800e-003	12.5187
Strip Mall	2.23551 / 1.37015		0.7092	0.0728	1.7200e-003	3.0429
<b>Total</b>			<b>55.1446</b>	<b>5.6639</b>	<b>0.1337</b>	<b>236.5949</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
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## Construction - Yolo County, Annual

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

	tons/yr	MT/yr			
Mitigated		274.9431	16.2487	0.0000	681.1600
Unmitigated		274.9431	16.2487	0.0000	681.1600

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Low Rise	460		93.3758	5.5184	0.0000	231.3347
General Office Building	446.4		90.6152	5.3552	0.0000	224.4952
Government Office Building	55.8		11.3269	0.6694	0.0000	28.0619
High Turnover (Sit Down Restaurant)	360.57		73.1925	4.3256	0.0000	181.3312
Strip Mall	31.69		6.4328	0.3802	0.0000	15.9370
<b>Total</b>			<b>274.9431</b>	<b>16.2487</b>	<b>0.0000</b>	<b>681.1600</b>

Construction - Yolo County, Annual

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

**Mitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Low Rise	460		93.3758	5.5184	0.0000	231.3347
General Office Building	446.4		90.6152	5.3552	0.0000	224.4952
Government Office Building	55.8		11.3269	0.6694	0.0000	28.0619
High Turnover (Sit Down Restaurant)	360.57		73.1925	4.3256	0.0000	181.3312
Strip Mall	31.69		6.4328	0.3802	0.0000	15.9370
<b>Total</b>			<b>274.9431</b>	<b>16.2487</b>	<b>0.0000</b>	<b>681.1600</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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Construction - Yolo County, Annual

**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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Construction - Yolo County, Summer

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

**Construction  
Yolo County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	480.00	1000sqft	5.70	480,000.00	0
Government Office Building	60.00	1000sqft	5.70	60,000.00	0
High Turnover (Sit Down Restaurant)	30.30	1000sqft	5.70	30,295.00	0
Apartments Low Rise	1,000.00	Dwelling Unit	5.70	1,000,000.00	2860
Strip Mall	30.18	1000sqft	5.70	30,175.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - See assumptions file for details.

Construction Phase - Assumes all activities overlap for modeling purposes.

Demolition -

Trips and VMT - Assumes 1 water truck and 4 trips per water truck per day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	4/26/2024	2/18/2022



Construction - Yolo County, Summer

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

tblConstructionPhase	PhaseEndDate	1/19/2024	9/8/2023
tblConstructionPhase	PhaseEndDate	5/13/2022	3/4/2022
tblConstructionPhase	PhaseEndDate	3/8/2024	2/18/2022
tblConstructionPhase	PhaseEndDate	3/11/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	3/9/2024	1/3/2022
tblConstructionPhase	PhaseStartDate	5/14/2022	1/3/2022
tblConstructionPhase	PhaseStartDate	3/12/2022	1/3/2022
tblConstructionPhase	PhaseStartDate	1/20/2024	1/3/2022
tblConstructionPhase	PhaseStartDate	2/12/2022	1/3/2022
tblLandUse	LotAcreage	11.02	5.70
tblLandUse	LotAcreage	1.38	5.70
tblLandUse	LotAcreage	0.70	5.70
tblLandUse	LotAcreage	62.50	5.70
tblLandUse	LotAcreage	0.69	5.70
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

**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	339.9682	152.4540	137.9973	0.3815	62.6565	6.2301	68.8866	20.2894	5.7758	26.0652	0.0000	38,235.1625	38,235.1625	5.8114	1.9828	38,971.3260

Construction - Yolo County, Summer

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

2023	4.6166	24.0289	40.5094	0.1290	8.2895	0.7828	9.0723	2.2288	0.7367	2.9655	0.0000	13,133.2801	13,133.2801	0.7873	0.7965	13,390.3219
<b>Maximum</b>	<b>339.9682</b>	<b>152.4540</b>	<b>137.9973</b>	<b>0.3815</b>	<b>62.6565</b>	<b>6.2301</b>	<b>68.8866</b>	<b>20.2894</b>	<b>5.7758</b>	<b>26.0652</b>	<b>0.0000</b>	<b>38,235.1625</b>	<b>38,235.1625</b>	<b>5.8114</b>	<b>1.9828</b>	<b>38,971.3260</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	339.9682	152.4540	137.9973	0.3815	62.6565	6.2301	68.8866	20.2894	5.7758	26.0652	0.0000	38,235.1625	38,235.1625	5.8114	1.9828	38,971.3260
2023	4.6166	24.0289	40.5094	0.1290	8.2895	0.7828	9.0723	2.2288	0.7367	2.9655	0.0000	13,133.2801	13,133.2801	0.7873	0.7965	13,390.3218
<b>Maximum</b>	<b>339.9682</b>	<b>152.4540</b>	<b>137.9973</b>	<b>0.3815</b>	<b>62.6565</b>	<b>6.2301</b>	<b>68.8866</b>	<b>20.2894</b>	<b>5.7758</b>	<b>26.0652</b>	<b>0.0000</b>	<b>38,235.1625</b>	<b>38,235.1625</b>	<b>5.8114</b>	<b>1.9828</b>	<b>38,971.3260</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
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Construction - Yolo County, Summer

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

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
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**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	2,306.1785	40.9248	2,884.2170	5.0657		393.3846	393.3846		393.3846	393.3846	41,281.3151	11,795.7425	53,077.0577	38.7222	3.1320	54,978.4548
Energy	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
Mobile	35.9376	44.5390	289.4763	0.6482	82.0782	0.3535	82.4317	21.9587	0.3323	22.2911		72,067.5622	72,067.5622	4.2449	3.9106	73,339.0282
<b>Total</b>	<b>2,342.8285</b>	<b>91.7520</b>	<b>3,177.7556</b>	<b>5.7528</b>	<b>82.0782</b>	<b>394.2303</b>	<b>476.3085</b>	<b>21.9587</b>	<b>394.2091</b>	<b>416.1678</b>	<b>41,281.3151</b>	<b>91,634.5391</b>	<b>132,915.8542</b>	<b>43.1161</b>	<b>7.1850</b>	<b>136,134.8978</b>

## Construction - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****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	2,306.1785	40.9248	2,884.2170	5.0657		393.3846	393.3846		393.3846	393.3846	41,281.3151	11,795.7425	53,077.0577	38.7222	3.1320	54,978.4548
Energy	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
Mobile	35.9376	44.5390	289.4763	0.6482	82.0782	0.3535	82.4317	21.9587	0.3323	22.2911		72,067.5622	72,067.5622	4.2449	3.9106	73,339.0282
<b>Total</b>	<b>2,342.8285</b>	<b>91.7520</b>	<b>3,177.7556</b>	<b>5.7528</b>	<b>82.0782</b>	<b>394.2303</b>	<b>476.3085</b>	<b>21.9587</b>	<b>394.2091</b>	<b>416.1678</b>	<b>41,281.3151</b>	<b>91,634.5391</b>	<b>132,915.8542</b>	<b>43.1161</b>	<b>7.1850</b>	<b>136,134.8978</b>

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	2/11/2022	5	30	
2	Site Preparation	Site Preparation	1/3/2022	1/28/2022	5	20	
3	Grading	Grading	1/3/2022	3/4/2022	5	45	
4	Building Construction	Building Construction	1/3/2022	9/8/2023	5	440	
5	Paving	Paving	1/3/2022	2/18/2022	5	35	

## Construction - Yolo County, Summer

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

6	Architectural Coating	Architectural Coating	1/3/2022	2/18/2022	5	35
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**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 0**

**Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 900,705; Non-Residential Outdoor: 300,235; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

## Construction - Yolo County, Summer

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

Building Construction	Welders	1	8.00	46	0.45
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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	3,017.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	4.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	915.00	205.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	183.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2022**Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7664	0.0000	21.7664	3.2956	0.0000	3.2956			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>21.7664</b>	<b>1.2427</b>	<b>23.0090</b>	<b>3.2956</b>	<b>1.1553</b>	<b>4.4509</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

## Construction - Yolo 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	0.3770	14.4521	2.8469	0.0641	1.7527	0.1420	1.8947	0.4799	0.1358	0.6157		6,789.3418	6,789.3418	0.0215	1.0670	7,107.8562
Vendor	6.4200e-003	0.1876	0.0510	7.9000e-004	0.0259	1.7400e-003	0.0277	7.4600e-003	1.6700e-003	9.1300e-003		83.6632	83.6632	3.4000e-004	0.0129	87.5222
Worker	0.0505	0.0261	0.3897	1.0600e-003	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		108.3113	108.3113	3.0700e-003	2.7600e-003	109.2115
<b>Total</b>	<b>0.4339</b>	<b>14.6658</b>	<b>3.2876</b>	<b>0.0660</b>	<b>1.8927</b>	<b>0.1443</b>	<b>2.0370</b>	<b>0.5176</b>	<b>0.1380</b>	<b>0.6556</b>		<b>6,981.3162</b>	<b>6,981.3162</b>	<b>0.0249</b>	<b>1.0827</b>	<b>7,304.5899</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					21.7664	0.0000	21.7664	3.2956	0.0000	3.2956			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>21.7664</b>	<b>1.2427</b>	<b>23.0090</b>	<b>3.2956</b>	<b>1.1553</b>	<b>4.4509</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

## Construction - Yolo 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	0.3770	14.4521	2.8469	0.0641	1.7527	0.1420	1.8947	0.4799	0.1358	0.6157		6,789.3418	6,789.3418	0.0215	1.0670	7,107.8562
Vendor	6.4200e-003	0.1876	0.0510	7.9000e-004	0.0259	1.7400e-003	0.0277	7.4600e-003	1.6700e-003	9.1300e-003		83.6632	83.6632	3.4000e-004	0.0129	87.5222
Worker	0.0505	0.0261	0.3897	1.0600e-003	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		108.3113	108.3113	3.0700e-003	2.7600e-003	109.2115
<b>Total</b>	<b>0.4339</b>	<b>14.6658</b>	<b>3.2876</b>	<b>0.0660</b>	<b>1.8927</b>	<b>0.1443</b>	<b>2.0370</b>	<b>0.5176</b>	<b>0.1380</b>	<b>0.6556</b>		<b>6,981.3162</b>	<b>6,981.3162</b>	<b>0.0249</b>	<b>1.0827</b>	<b>7,304.5899</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>



## Construction - Yolo 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	6.4200e-003	0.1876	0.0510	7.9000e-004	0.0259	1.7400e-003	0.0277	7.4600e-003	1.6700e-003	9.1300e-003		83.6632	83.6632	3.4000e-004	0.0129	87.5222
Worker	0.0606	0.0313	0.4676	1.2800e-003	0.1369	6.9000e-004	0.1376	0.0363	6.4000e-004	0.0370		129.9735	129.9735	3.6800e-003	3.3200e-003	131.0538
<b>Total</b>	<b>0.0670</b>	<b>0.2189</b>	<b>0.5187</b>	<b>2.0700e-003</b>	<b>0.1629</b>	<b>2.4300e-003</b>	<b>0.1653</b>	<b>0.0438</b>	<b>2.3100e-003</b>	<b>0.0461</b>		<b>213.6367</b>	<b>213.6367</b>	<b>4.0200e-003</b>	<b>0.0162</b>	<b>218.5759</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					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	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>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

## Construction - Yolo 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	6.4200e-003	0.1876	0.0510	7.9000e-004	0.0259	1.7400e-003	0.0277	7.4600e-003	1.6700e-003	9.1300e-003		83.6632	83.6632	3.4000e-004	0.0129	87.5222
Worker	0.0606	0.0313	0.4676	1.2800e-003	0.1369	6.9000e-004	0.1376	0.0363	6.4000e-004	0.0370		129.9735	129.9735	3.6800e-003	3.3200e-003	131.0538
<b>Total</b>	<b>0.0670</b>	<b>0.2189</b>	<b>0.5187</b>	<b>2.0700e-003</b>	<b>0.1629</b>	<b>2.4300e-003</b>	<b>0.1653</b>	<b>0.0438</b>	<b>2.3100e-003</b>	<b>0.0461</b>		<b>213.6367</b>	<b>213.6367</b>	<b>4.0200e-003</b>	<b>0.0162</b>	<b>218.5759</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>

## Construction - Yolo 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	6.4200e-003	0.1876	0.0510	7.9000e-004	0.0259	1.7400e-003	0.0277	7.4600e-003	1.6700e-003	9.1300e-003		83.6632	83.6632	3.4000e-004	0.0129	87.5222
Worker	0.0673	0.0348	0.5196	1.4200e-003	0.1521	7.7000e-004	0.1529	0.0404	7.1000e-004	0.0411		144.4151	144.4151	4.0900e-003	3.6800e-003	145.6153
<b>Total</b>	<b>0.0737</b>	<b>0.2224</b>	<b>0.5706</b>	<b>2.2100e-003</b>	<b>0.1781</b>	<b>2.5100e-003</b>	<b>0.1806</b>	<b>0.0478</b>	<b>2.3800e-003</b>	<b>0.0502</b>		<b>228.0782</b>	<b>228.0782</b>	<b>4.4300e-003</b>	<b>0.0166</b>	<b>233.1374</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					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	0.0000	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>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

## Construction - Yolo 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	6.4200e-003	0.1876	0.0510	7.9000e-004	0.0259	1.7400e-003	0.0277	7.4600e-003	1.6700e-003	9.1300e-003		83.6632	83.6632	3.4000e-004	0.0129	87.5222
Worker	0.0673	0.0348	0.5196	1.4200e-003	0.1521	7.7000e-004	0.1529	0.0404	7.1000e-004	0.0411		144.4151	144.4151	4.0900e-003	3.6800e-003	145.6153
<b>Total</b>	<b>0.0737</b>	<b>0.2224</b>	<b>0.5706</b>	<b>2.2100e-003</b>	<b>0.1781</b>	<b>2.5100e-003</b>	<b>0.1806</b>	<b>0.0478</b>	<b>2.3800e-003</b>	<b>0.0502</b>		<b>228.0782</b>	<b>228.0782</b>	<b>4.4300e-003</b>	<b>0.0166</b>	<b>233.1374</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
<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>

## Construction - Yolo 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	0.3291	9.6144	2.6159	0.0405	1.3293	0.0893	1.4187	0.3825	0.0855	0.4680		4,287.7385	4,287.7385	0.0174	0.6622	4,485.5107
Worker	3.0782	1.5925	23.7701	0.0650	6.9604	0.0352	6.9956	1.8463	0.0324	1.8787		6,606.9884	6,606.9884	0.1871	0.1686	6,661.8988
<b>Total</b>	<b>3.4074</b>	<b>11.2068</b>	<b>26.3859</b>	<b>0.1055</b>	<b>8.2897</b>	<b>0.1245</b>	<b>8.4142</b>	<b>2.2289</b>	<b>0.1179</b>	<b>2.3467</b>		<b>10,894.7268</b>	<b>10,894.7268</b>	<b>0.2045</b>	<b>0.8308</b>	<b>11,147.4095</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
<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>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Construction - Yolo 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	0.3291	9.6144	2.6159	0.0405	1.3293	0.0893	1.4187	0.3825	0.0855	0.4680		4,287.7385	4,287.7385	0.0174	0.6622	4,485.5107
Worker	3.0782	1.5925	23.7701	0.0650	6.9604	0.0352	6.9956	1.8463	0.0324	1.8787		6,606.9884	6,606.9884	0.1871	0.1686	6,661.8988
<b>Total</b>	<b>3.4074</b>	<b>11.2068</b>	<b>26.3859</b>	<b>0.1055</b>	<b>8.2897</b>	<b>0.1245</b>	<b>8.4142</b>	<b>2.2289</b>	<b>0.1179</b>	<b>2.3467</b>		<b>10,894.7268</b>	<b>10,894.7268</b>	<b>0.2045</b>	<b>0.8308</b>	<b>11,147.4095</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

## Construction - Yolo 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	0.1969	8.2373	2.3496	0.0392	1.3291	0.0498	1.3789	0.3825	0.0476	0.4301		4,145.5723	4,145.5723	0.0110	0.6404	4,336.6845
Worker	2.8469	1.4067	21.9158	0.0629	6.9604	0.0333	6.9937	1.8463	0.0306	1.8769		6,432.4979	6,432.4979	0.1684	0.1561	6,483.2313
<b>Total</b>	<b>3.0438</b>	<b>9.6440</b>	<b>24.2654</b>	<b>0.1021</b>	<b>8.2895</b>	<b>0.0830</b>	<b>8.3726</b>	<b>2.2288</b>	<b>0.0782</b>	<b>2.3070</b>		<b>10,578.0702</b>	<b>10,578.0702</b>	<b>0.1794</b>	<b>0.7965</b>	<b>10,819.9158</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

## Construction - Yolo 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	0.1969	8.2373	2.3496	0.0392	1.3291	0.0498	1.3789	0.3825	0.0476	0.4301		4,145.5723	4,145.5723	0.0110	0.6404	4,336.6845
Worker	2.8469	1.4067	21.9158	0.0629	6.9604	0.0333	6.9937	1.8463	0.0306	1.8769		6,432.4979	6,432.4979	0.1684	0.1561	6,483.2313
<b>Total</b>	<b>3.0438</b>	<b>9.6440</b>	<b>24.2654</b>	<b>0.1021</b>	<b>8.2895</b>	<b>0.0830</b>	<b>8.3726</b>	<b>2.2288</b>	<b>0.0782</b>	<b>2.3070</b>		<b>10,578.0702</b>	<b>10,578.0702</b>	<b>0.1794</b>	<b>0.7965</b>	<b>10,819.9158</b>

**3.6 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	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>



## Construction - Yolo 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	0.0505	0.0261	0.3897	1.0600e-003	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		108.3113	108.3113	3.0700e-003	2.7600e-003	109.2115
<b>Total</b>	<b>0.0505</b>	<b>0.0261</b>	<b>0.3897</b>	<b>1.0600e-003</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>108.3113</b>	<b>108.3113</b>	<b>3.0700e-003</b>	<b>2.7600e-003</b>	<b>109.2115</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	1.1028	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>

## Construction - Yolo 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	0.0505	0.0261	0.3897	1.0600e-003	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		108.3113	108.3113	3.0700e-003	2.7600e-003	109.2115
<b>Total</b>	<b>0.0505</b>	<b>0.0261</b>	<b>0.3897</b>	<b>1.0600e-003</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>108.3113</b>	<b>108.3113</b>	<b>3.0700e-003</b>	<b>2.7600e-003</b>	<b>109.2115</b>

**3.7 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	322.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>323.0770</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>

## Construction - Yolo 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	0.6157	0.3185	4.7540	0.0130	1.3921	7.0300e-003	1.3991	0.3693	6.4800e-003	0.3757		1,321.3977	1,321.3977	0.0374	0.0337	1,332.3798
<b>Total</b>	<b>0.6157</b>	<b>0.3185</b>	<b>4.7540</b>	<b>0.0130</b>	<b>1.3921</b>	<b>7.0300e-003</b>	<b>1.3991</b>	<b>0.3693</b>	<b>6.4800e-003</b>	<b>0.3757</b>		<b>1,321.3977</b>	<b>1,321.3977</b>	<b>0.0374</b>	<b>0.0337</b>	<b>1,332.3798</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	322.8724					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>323.0770</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>

Construction - Yolo 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	0.6157	0.3185	4.7540	0.0130	1.3921	7.0300e-003	1.3991	0.3693	6.4800e-003	0.3757		1,321.3977	1,321.3977	0.0374	0.0337	1,332.3798
<b>Total</b>	<b>0.6157</b>	<b>0.3185</b>	<b>4.7540</b>	<b>0.0130</b>	<b>1.3921</b>	<b>7.0300e-003</b>	<b>1.3991</b>	<b>0.3693</b>	<b>6.4800e-003</b>	<b>0.3757</b>		<b>1,321.3977</b>	<b>1,321.3977</b>	<b>0.0374</b>	<b>0.0337</b>	<b>1,332.3798</b>

**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	35.9376	44.5390	289.4763	0.6482	82.0782	0.3535	82.4317	21.9587	0.3323	22.2911		72,067.5622	72,067.5622	4.2449	3.9106	73,339.0282
Unmitigated	35.9376	44.5390	289.4763	0.6482	82.0782	0.3535	82.4317	21.9587	0.3323	22.2911		72,067.5622	72,067.5622	4.2449	3.9106	73,339.0282

## Construction - Yolo County, Summer

**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
Apartments Low Rise	7,320.00	8,140.00	6280.00	19,127,092	19,127,092
General Office Building	4,675.20	1,060.80	336.00	7,408,388	7,408,388
Government Office Building	1,355.40	0.00	0.00	1,397,194	1,397,194
High Turnover (Sit Down Restaurant)	3,398.49	3,708.11	4321.28	3,228,249	3,228,249
Strip Mall	1,337.36	1,268.56	616.48	1,529,091	1,529,091
<b>Total</b>	<b>18,086.45</b>	<b>14,177.47</b>	<b>11,553.75</b>	<b>32,690,014</b>	<b>32,690,014</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	5.00	7.00	46.00	13.00	41.00	86	11	3
General Office Building	10.00	5.00	7.00	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	7.00	33.00	62.00	5.00	50	34	16
High Turnover (Sit Down)	10.00	5.00	7.00	8.50	72.50	19.00	37	20	43
Strip Mall	10.00	5.00	7.00	16.60	64.40	19.00	45	40	15

## Construction - Yolo 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
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
NaturalGas Unmitigated	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149

## Construction - Yolo County, Summer

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

## 5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	31935.3	0.3444	2.9431	1.2524	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.0894	3,757.0894	0.0720	0.0689	3,779.4160
General Office Building	21435.6	0.2312	2.1015	1.7653	0.0126		0.1597	0.1597		0.1597	0.1597		2,521.8372	2,521.8372	0.0483	0.0462	2,536.8233
Government Office Building	2679.45	0.0289	0.2627	0.2207	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.2297	315.2297	6.0400e-003	5.7800e-003	317.1029
High Turnover (Sit Down Restaurant)	9047.83	0.0976	0.8870	0.7451	5.3200e-003		0.0674	0.0674		0.0674	0.0674		1,064.4506	1,064.4506	0.0204	0.0195	1,070.7761
Strip Mall	957.333	0.0103	0.0939	0.0788	5.6000e-004		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003		112.6274	112.6274	2.1600e-003	2.0600e-003	113.2967
<b>Total</b>		<b>0.7124</b>	<b>6.2882</b>	<b>4.0623</b>	<b>0.0389</b>		<b>0.4922</b>	<b>0.4922</b>		<b>0.4922</b>	<b>0.4922</b>		<b>7,771.2343</b>	<b>7,771.2343</b>	<b>0.1490</b>	<b>0.1425</b>	<b>7,817.4149</b>





Construction - Yolo County, Summer

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

Mitigated	2,306.1785	40.9248	2,884.2170	5.0657		393.3846	393.3846		393.3846	393.3846	41,281.3151	11,795.7425	53,077.0577	38.7222	3.1320	54,978.4548
Unmitigated	2,306.1785	40.9248	2,884.2170	5.0657		393.3846	393.3846		393.3846	393.3846	41,281.3151	11,795.7425	53,077.0577	38.7222	3.1320	54,978.4548

**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	3.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,266.3701	39.9761	2,802.0173	5.0614		392.9268	392.9268		392.9268	392.9268	41,281.3151	11,647.0588	52,928.3740	38.5805	3.1320	54,826.2277
Landscaping	2.4623	0.9486	82.1998	4.3600e-003		0.4577	0.4577		0.4577	0.4577		148.6837	148.6837	0.1417		152.2271
<b>Total</b>	<b>2,306.1785</b>	<b>40.9248</b>	<b>2,884.2170</b>	<b>5.0657</b>		<b>393.3846</b>	<b>393.3846</b>		<b>393.3846</b>	<b>393.3846</b>	<b>41,281.3151</b>	<b>11,795.7425</b>	<b>53,077.0577</b>	<b>38.7222</b>	<b>3.1320</b>	<b>54,978.4548</b>

## Construction - Yolo County, Summer

**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	lb/day										lb/day					
Architectural Coating	3.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,266.3701	39.9761	2,802.0173	5.0614		392.9268	392.9268		392.9268	392.9268	41,281.3151	11,647.0588	52,928.3740	38.5805	3.1320	54,826.2277
Landscaping	2.4623	0.9486	82.1998	4.3600e-003		0.4577	0.4577		0.4577	0.4577		148.6837	148.6837	0.1417		152.2271
<b>Total</b>	<b>2,306.1785</b>	<b>40.9248</b>	<b>2,884.2170</b>	<b>5.0657</b>		<b>393.3846</b>	<b>393.3846</b>		<b>393.3846</b>	<b>393.3846</b>	<b>41,281.3151</b>	<b>11,795.7425</b>	<b>53,077.0577</b>	<b>38.7222</b>	<b>3.1320</b>	<b>54,978.4548</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Construction - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Construction - Yolo County, Winter

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

**Construction  
Yolo County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	480.00	1000sqft	5.70	480,000.00	0
Government Office Building	60.00	1000sqft	5.70	60,000.00	0
High Turnover (Sit Down Restaurant)	30.30	1000sqft	5.70	30,295.00	0
Apartments Low Rise	1,000.00	Dwelling Unit	5.70	1,000,000.00	2860
Strip Mall	30.18	1000sqft	5.70	30,175.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040

**Utility Company**

<b>CO2 Intensity (lb/MWhr)</b>	0	<b>CH4 Intensity (lb/MWhr)</b>	0	<b>N2O Intensity (lb/MWhr)</b>	0
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**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - See assumptions file for details.

Construction Phase - Assumes all activities overlap for modeling purposes.

Demolition -

Trips and VMT - Assumes 1 water truck and 4 trips per water truck per day.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	4/26/2024	2/18/2022

Construction - Yolo County, Winter

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

tblConstructionPhase	PhaseEndDate	1/19/2024	9/8/2023
tblConstructionPhase	PhaseEndDate	5/13/2022	3/4/2022
tblConstructionPhase	PhaseEndDate	3/8/2024	2/18/2022
tblConstructionPhase	PhaseEndDate	3/11/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	3/9/2024	1/3/2022
tblConstructionPhase	PhaseStartDate	5/14/2022	1/3/2022
tblConstructionPhase	PhaseStartDate	3/12/2022	1/3/2022
tblConstructionPhase	PhaseStartDate	1/20/2024	1/3/2022
tblConstructionPhase	PhaseStartDate	2/12/2022	1/3/2022
tblLandUse	LotAcreage	11.02	5.70
tblLandUse	LotAcreage	1.38	5.70
tblLandUse	LotAcreage	0.70	5.70
tblLandUse	LotAcreage	62.50	5.70
tblLandUse	LotAcreage	0.69	5.70
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00

**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	339.5236	154.8913	134.9080	0.3727	62.6565	6.2307	68.8872	20.2894	5.7764	26.0658	0.0000	37,345.9745	37,345.9745	5.8501	2.0174	38,093.4194

Construction - Yolo County, Winter

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

2023	4.3054	25.0115	38.3340	0.1224	8.2895	0.7830	9.0725	2.2288	0.7369	2.9656	0.0000	12,456.9311	12,456.9311	0.8159	0.8218	12,722.2158
<b>Maximum</b>	<b>339.5236</b>	<b>154.8913</b>	<b>134.9080</b>	<b>0.3727</b>	<b>62.6565</b>	<b>6.2307</b>	<b>68.8872</b>	<b>20.2894</b>	<b>5.7764</b>	<b>26.0658</b>	<b>0.0000</b>	<b>37,345.9745</b>	<b>37,345.9745</b>	<b>5.8501</b>	<b>2.0174</b>	<b>38,093.4194</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	339.5236	154.8913	134.9080	0.3727	62.6565	6.2307	68.8872	20.2894	5.7764	26.0658	0.0000	37,345.9745	37,345.9745	5.8501	2.0174	38,093.4194
2023	4.3054	25.0115	38.3340	0.1224	8.2895	0.7830	9.0725	2.2288	0.7369	2.9656	0.0000	12,456.9311	12,456.9311	0.8159	0.8218	12,722.2158
<b>Maximum</b>	<b>339.5236</b>	<b>154.8913</b>	<b>134.9080</b>	<b>0.3727</b>	<b>62.6565</b>	<b>6.2307</b>	<b>68.8872</b>	<b>20.2894</b>	<b>5.7764</b>	<b>26.0658</b>	<b>0.0000</b>	<b>37,345.9745</b>	<b>37,345.9745</b>	<b>5.8501</b>	<b>2.0174</b>	<b>38,093.4194</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
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## Construction - Yolo County, Winter

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

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
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**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	2,306.1785	40.9248	2,884.2170	5.0657		393.3846	393.3846		393.3846	393.3846	41,281.3151	11,795.7425	53,077.0577	38.7222	3.1320	54,978.4548
Energy	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
Mobile	27.0134	50.4131	305.1947	0.6006	82.0782	0.3539	82.4321	21.9587	0.3327	22.2914		66,683.3933	66,683.3933	4.6925	4.1826	68,047.1151
<b>Total</b>	<b>2,333.9042</b>	<b>97.6261</b>	<b>3,193.4740</b>	<b>5.7052</b>	<b>82.0782</b>	<b>394.2306</b>	<b>476.3088</b>	<b>21.9587</b>	<b>394.2094</b>	<b>416.1681</b>	<b>41,281.3151</b>	<b>86,250.3702</b>	<b>127,531.6853</b>	<b>43.5637</b>	<b>7.4571</b>	<b>130,842.9847</b>

## Construction - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****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	2,306.1785	40.9248	2,884.2170	5.0657		393.3846	393.3846		393.3846	393.3846	41,281.3151	11,795.7425	53,077.0577	38.7222	3.1320	54,978.4548
Energy	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
Mobile	27.0134	50.4131	305.1947	0.6006	82.0782	0.3539	82.4321	21.9587	0.3327	22.2914		66,683.3933	66,683.3933	4.6925	4.1826	68,047.1151
<b>Total</b>	<b>2,333.9042</b>	<b>97.6261</b>	<b>3,193.4740</b>	<b>5.7052</b>	<b>82.0782</b>	<b>394.2306</b>	<b>476.3088</b>	<b>21.9587</b>	<b>394.2094</b>	<b>416.1681</b>	<b>41,281.3151</b>	<b>86,250.3702</b>	<b>127,531.6853</b>	<b>43.5637</b>	<b>7.4571</b>	<b>130,842.9847</b>

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/3/2022	2/11/2022	5	30	
2	Site Preparation	Site Preparation	1/3/2022	1/28/2022	5	20	
3	Grading	Grading	1/3/2022	3/4/2022	5	45	
4	Building Construction	Building Construction	1/3/2022	9/8/2023	5	440	
5	Paving	Paving	1/3/2022	2/18/2022	5	35	



## Construction - Yolo County, Winter

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

6	Architectural Coating	Architectural Coating	1/3/2022	2/18/2022	5	35
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**Acres of Grading (Site Preparation Phase): 30**

**Acres of Grading (Grading Phase): 135**

**Acres of Paving: 0**

**Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 900,705; Non-Residential Outdoor: 300,235; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
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
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

## Construction - Yolo County, Winter

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

Building Construction	Welders	1	8.00	46	0.45
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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	4.00	3,017.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	4.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	4.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	915.00	205.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	183.00	0.00	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction****3.2 Demolition - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					21.7664	0.0000	21.7664	3.2956	0.0000	3.2956			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>21.7664</b>	<b>1.2427</b>	<b>23.0090</b>	<b>3.2956</b>	<b>1.1553</b>	<b>4.4509</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

## Construction - Yolo 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	0.3638	15.6244	2.9144	0.0642	1.7527	0.1422	1.8949	0.4799	0.1361	0.6159		6,793.3182	6,793.3182	0.0209	1.0677	7,112.0140
Vendor	6.1800e-003	0.2020	0.0529	7.9000e-004	0.0259	1.7500e-003	0.0277	7.4600e-003	1.6700e-003	9.1400e-003		83.7399	83.7399	3.3000e-004	0.0129	87.6039
Worker	0.0451	0.0324	0.3478	9.5000e-004	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		96.7677	96.7677	3.5800e-003	3.1900e-003	97.8071
<b>Total</b>	<b>0.4151</b>	<b>15.8587</b>	<b>3.3151</b>	<b>0.0659</b>	<b>1.8927</b>	<b>0.1445</b>	<b>2.0373</b>	<b>0.5176</b>	<b>0.1383</b>	<b>0.6558</b>		<b>6,973.8258</b>	<b>6,973.8258</b>	<b>0.0248</b>	<b>1.0838</b>	<b>7,297.4250</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					21.7664	0.0000	21.7664	3.2956	0.0000	3.2956			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>21.7664</b>	<b>1.2427</b>	<b>23.0090</b>	<b>3.2956</b>	<b>1.1553</b>	<b>4.4509</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</b>

## Construction - Yolo 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	0.3638	15.6244	2.9144	0.0642	1.7527	0.1422	1.8949	0.4799	0.1361	0.6159		6,793.3182	6,793.3182	0.0209	1.0677	7,112.0140
Vendor	6.1800e-003	0.2020	0.0529	7.9000e-004	0.0259	1.7500e-003	0.0277	7.4600e-003	1.6700e-003	9.1400e-003		83.7399	83.7399	3.3000e-004	0.0129	87.6039
Worker	0.0451	0.0324	0.3478	9.5000e-004	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		96.7677	96.7677	3.5800e-003	3.1900e-003	97.8071
<b>Total</b>	<b>0.4151</b>	<b>15.8587</b>	<b>3.3151</b>	<b>0.0659</b>	<b>1.8927</b>	<b>0.1445</b>	<b>2.0373</b>	<b>0.5176</b>	<b>0.1383</b>	<b>0.6558</b>		<b>6,973.8258</b>	<b>6,973.8258</b>	<b>0.0248</b>	<b>1.0838</b>	<b>7,297.4250</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>

## Construction - Yolo 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	6.1800e-003	0.2020	0.0529	7.9000e-004	0.0259	1.7500e-003	0.0277	7.4600e-003	1.6700e-003	9.1400e-003		83.7399	83.7399	3.3000e-004	0.0129	87.6039
Worker	0.0541	0.0388	0.4173	1.1400e-003	0.1369	6.9000e-004	0.1376	0.0363	6.4000e-004	0.0370		116.1212	116.1212	4.3000e-003	3.8300e-003	117.3685
<b>Total</b>	<b>0.0603</b>	<b>0.2408</b>	<b>0.4702</b>	<b>1.9300e-003</b>	<b>0.1629</b>	<b>2.4400e-003</b>	<b>0.1653</b>	<b>0.0438</b>	<b>2.3100e-003</b>	<b>0.0461</b>		<b>199.8611</b>	<b>199.8611</b>	<b>4.6300e-003</b>	<b>0.0168</b>	<b>204.9724</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					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	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>19.6570</b>	<b>1.6126</b>	<b>21.2696</b>	<b>10.1025</b>	<b>1.4836</b>	<b>11.5860</b>	<b>0.0000</b>	<b>3,686.0619</b>	<b>3,686.0619</b>	<b>1.1922</b>		<b>3,715.8655</b>

## Construction - Yolo 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	6.1800e-003	0.2020	0.0529	7.9000e-004	0.0259	1.7500e-003	0.0277	7.4600e-003	1.6700e-003	9.1400e-003		83.7399	83.7399	3.3000e-004	0.0129	87.6039
Worker	0.0541	0.0388	0.4173	1.1400e-003	0.1369	6.9000e-004	0.1376	0.0363	6.4000e-004	0.0370		116.1212	116.1212	4.3000e-003	3.8300e-003	117.3685
<b>Total</b>	<b>0.0603</b>	<b>0.2408</b>	<b>0.4702</b>	<b>1.9300e-003</b>	<b>0.1629</b>	<b>2.4400e-003</b>	<b>0.1653</b>	<b>0.0438</b>	<b>2.3100e-003</b>	<b>0.0461</b>		<b>199.8611</b>	<b>199.8611</b>	<b>4.6300e-003</b>	<b>0.0168</b>	<b>204.9724</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>

## Construction - Yolo 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	6.1800e-003	0.2020	0.0529	7.9000e-004	0.0259	1.7500e-003	0.0277	7.4600e-003	1.6700e-003	9.1400e-003		83.7399	83.7399	3.3000e-004	0.0129	87.6039
Worker	0.0601	0.0431	0.4637	1.2700e-003	0.1521	7.7000e-004	0.1529	0.0404	7.1000e-004	0.0411		129.0235	129.0235	4.7700e-003	4.2500e-003	130.4095
<b>Total</b>	<b>0.0663</b>	<b>0.2451</b>	<b>0.5166</b>	<b>2.0600e-003</b>	<b>0.1781</b>	<b>2.5200e-003</b>	<b>0.1806</b>	<b>0.0478</b>	<b>2.3800e-003</b>	<b>0.0502</b>		<b>212.7634</b>	<b>212.7634</b>	<b>5.1000e-003</b>	<b>0.0172</b>	<b>218.0134</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					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	0.0000	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>0.0000</b>	<b>6,011.4105</b>	<b>6,011.4105</b>	<b>1.9442</b>		<b>6,060.0158</b>

## Construction - Yolo 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	6.1800e-003	0.2020	0.0529	7.9000e-004	0.0259	1.7500e-003	0.0277	7.4600e-003	1.6700e-003	9.1400e-003		83.7399	83.7399	3.3000e-004	0.0129	87.6039
Worker	0.0601	0.0431	0.4637	1.2700e-003	0.1521	7.7000e-004	0.1529	0.0404	7.1000e-004	0.0411		129.0235	129.0235	4.7700e-003	4.2500e-003	130.4095
<b>Total</b>	<b>0.0663</b>	<b>0.2451</b>	<b>0.5166</b>	<b>2.0600e-003</b>	<b>0.1781</b>	<b>2.5200e-003</b>	<b>0.1806</b>	<b>0.0478</b>	<b>2.3800e-003</b>	<b>0.0502</b>		<b>212.7634</b>	<b>212.7634</b>	<b>5.1000e-003</b>	<b>0.0172</b>	<b>218.0134</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
<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>



## Construction - Yolo 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	0.3167	10.3508	2.7108	0.0406	1.3293	0.0897	1.4190	0.3825	0.0858	0.4683		4,291.6686	4,291.6686	0.0169	0.6631	4,489.6989
Worker	2.7500	1.9735	21.2139	0.0580	6.9604	0.0352	6.9956	1.8463	0.0324	1.8787		5,902.8271	5,902.8271	0.2184	0.1945	5,966.2338
<b>Total</b>	<b>3.0667</b>	<b>12.3243</b>	<b>23.9247</b>	<b>0.0986</b>	<b>8.2897</b>	<b>0.1248</b>	<b>8.4145</b>	<b>2.2289</b>	<b>0.1182</b>	<b>2.3470</b>		<b>10,194.4957</b>	<b>10,194.4957</b>	<b>0.2353</b>	<b>0.8576</b>	<b>10,455.9327</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
<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>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

Construction - Yolo 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	0.3167	10.3508	2.7108	0.0406	1.3293	0.0897	1.4190	0.3825	0.0858	0.4683		4,291.6686	4,291.6686	0.0169	0.6631	4,489.6989
Worker	2.7500	1.9735	21.2139	0.0580	6.9604	0.0352	6.9956	1.8463	0.0324	1.8787		5,902.8271	5,902.8271	0.2184	0.1945	5,966.2338
<b>Total</b>	<b>3.0667</b>	<b>12.3243</b>	<b>23.9247</b>	<b>0.0986</b>	<b>8.2897</b>	<b>0.1248</b>	<b>8.4145</b>	<b>2.2289</b>	<b>0.1182</b>	<b>2.3470</b>		<b>10,194.4957</b>	<b>10,194.4957</b>	<b>0.2353</b>	<b>0.8576</b>	<b>10,455.9327</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>		<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

## Construction - Yolo 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	0.1826	8.8848	2.4254	0.0393	1.3291	0.0500	1.3791	0.3825	0.0478	0.4303		4,153.0168	4,153.0168	0.0104	0.6418	4,344.5362
Worker	2.5501	1.7418	19.6646	0.0562	6.9604	0.0333	6.9937	1.8463	0.0306	1.8769		5,748.7043	5,748.7043	0.1977	0.1800	5,807.2735
<b>Total</b>	<b>2.7327</b>	<b>10.6266</b>	<b>22.0900</b>	<b>0.0954</b>	<b>8.2895</b>	<b>0.0832</b>	<b>8.3728</b>	<b>2.2288</b>	<b>0.0784</b>	<b>2.3072</b>		<b>9,901.7212</b>	<b>9,901.7212</b>	<b>0.2080</b>	<b>0.8218</b>	<b>10,151.8097</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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
<b>Total</b>	<b>1.5728</b>	<b>14.3849</b>	<b>16.2440</b>	<b>0.0269</b>		<b>0.6997</b>	<b>0.6997</b>		<b>0.6584</b>	<b>0.6584</b>	<b>0.0000</b>	<b>2,555.2099</b>	<b>2,555.2099</b>	<b>0.6079</b>		<b>2,570.4061</b>

## Construction - Yolo 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	0.1826	8.8848	2.4254	0.0393	1.3291	0.0500	1.3791	0.3825	0.0478	0.4303		4,153.0168	4,153.0168	0.0104	0.6418	4,344.5362
Worker	2.5501	1.7418	19.6646	0.0562	6.9604	0.0333	6.9937	1.8463	0.0306	1.8769		5,748.7043	5,748.7043	0.1977	0.1800	5,807.2735
<b>Total</b>	<b>2.7327</b>	<b>10.6266</b>	<b>22.0900</b>	<b>0.0954</b>	<b>8.2895</b>	<b>0.0832</b>	<b>8.3728</b>	<b>2.2288</b>	<b>0.0784</b>	<b>2.3072</b>		<b>9,901.7212</b>	<b>9,901.7212</b>	<b>0.2080</b>	<b>0.8218</b>	<b>10,151.8097</b>

**3.6 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	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>

## Construction - Yolo 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	0.0451	0.0324	0.3478	9.5000e-004	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		96.7677	96.7677	3.5800e-003	3.1900e-003	97.8071
<b>Total</b>	<b>0.0451</b>	<b>0.0324</b>	<b>0.3478</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>96.7677</b>	<b>96.7677</b>	<b>3.5800e-003</b>	<b>3.1900e-003</b>	<b>97.8071</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	1.1028	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>

## Construction - Yolo 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	0.0451	0.0324	0.3478	9.5000e-004	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		96.7677	96.7677	3.5800e-003	3.1900e-003	97.8071
<b>Total</b>	<b>0.0451</b>	<b>0.0324</b>	<b>0.3478</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>96.7677</b>	<b>96.7677</b>	<b>3.5800e-003</b>	<b>3.1900e-003</b>	<b>97.8071</b>

**3.7 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	322.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>323.0770</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>

## Construction - Yolo 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	0.5500	0.3947	4.2428	0.0116	1.3921	7.0300e-003	1.3991	0.3693	6.4800e-003	0.3757		1,180.5654	1,180.5654	0.0437	0.0389	1,193.2468
<b>Total</b>	<b>0.5500</b>	<b>0.3947</b>	<b>4.2428</b>	<b>0.0116</b>	<b>1.3921</b>	<b>7.0300e-003</b>	<b>1.3991</b>	<b>0.3693</b>	<b>6.4800e-003</b>	<b>0.3757</b>		<b>1,180.5654</b>	<b>1,180.5654</b>	<b>0.0437</b>	<b>0.0389</b>	<b>1,193.2468</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	322.8724					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>323.0770</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>

Construction - Yolo 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	0.5500	0.3947	4.2428	0.0116	1.3921	7.0300e-003	1.3991	0.3693	6.4800e-003	0.3757		1,180.5654	1,180.5654	0.0437	0.0389	1,193.2468
<b>Total</b>	<b>0.5500</b>	<b>0.3947</b>	<b>4.2428</b>	<b>0.0116</b>	<b>1.3921</b>	<b>7.0300e-003</b>	<b>1.3991</b>	<b>0.3693</b>	<b>6.4800e-003</b>	<b>0.3757</b>		<b>1,180.5654</b>	<b>1,180.5654</b>	<b>0.0437</b>	<b>0.0389</b>	<b>1,193.2468</b>

**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	27.0134	50.4131	305.1947	0.6006	82.0782	0.3539	82.4321	21.9587	0.3327	22.2914		66,683.3933	66,683.3933	4.6925	4.1826	68,047.1151
Unmitigated	27.0134	50.4131	305.1947	0.6006	82.0782	0.3539	82.4321	21.9587	0.3327	22.2914		66,683.3933	66,683.3933	4.6925	4.1826	68,047.1151



## Construction - Yolo County, Winter

**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
Apartments Low Rise	7,320.00	8,140.00	6280.00	19,127,092	19,127,092
General Office Building	4,675.20	1,060.80	336.00	7,408,388	7,408,388
Government Office Building	1,355.40	0.00	0.00	1,397,194	1,397,194
High Turnover (Sit Down Restaurant)	3,398.49	3,708.11	4321.28	3,228,249	3,228,249
Strip Mall	1,337.36	1,268.56	616.48	1,529,091	1,529,091
<b>Total</b>	<b>18,086.45</b>	<b>14,177.47</b>	<b>11,553.75</b>	<b>32,690,014</b>	<b>32,690,014</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.00	5.00	7.00	46.00	13.00	41.00	86	11	3
General Office Building	10.00	5.00	7.00	33.00	48.00	19.00	77	19	4
Government Office Building	10.00	5.00	7.00	33.00	62.00	5.00	50	34	16
High Turnover (Sit Down)	10.00	5.00	7.00	8.50	72.50	19.00	37	20	43
Strip Mall	10.00	5.00	7.00	16.60	64.40	19.00	45	40	15

## Construction - Yolo 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
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
NaturalGas Unmitigated	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149

## Construction - Yolo County, Winter

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

## 5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	31935.3	0.3444	2.9431	1.2524	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.0894	3,757.0894	0.0720	0.0689	3,779.4160
General Office Building	21435.6	0.2312	2.1015	1.7653	0.0126		0.1597	0.1597		0.1597	0.1597		2,521.8372	2,521.8372	0.0483	0.0462	2,536.8233
Government Office Building	2679.45	0.0289	0.2627	0.2207	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.2297	315.2297	6.0400e-003	5.7800e-003	317.1029
High Turnover (Sit Down Restaurant)	9047.83	0.0976	0.8870	0.7451	5.3200e-003		0.0674	0.0674		0.0674	0.0674		1,064.4506	1,064.4506	0.0204	0.0195	1,070.7761
Strip Mall	957.333	0.0103	0.0939	0.0788	5.6000e-004		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003		112.6274	112.6274	2.1600e-003	2.0600e-003	113.2967
<b>Total</b>		<b>0.7124</b>	<b>6.2882</b>	<b>4.0623</b>	<b>0.0389</b>		<b>0.4922</b>	<b>0.4922</b>		<b>0.4922</b>	<b>0.4922</b>		<b>7,771.2343</b>	<b>7,771.2343</b>	<b>0.1490</b>	<b>0.1425</b>	<b>7,817.4149</b>



Construction - Yolo County, Winter

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

Mitigated	2,306.1785	40.9248	2,884.2170	5.0657		393.3846	393.3846		393.3846	393.3846	41,281.3151	11,795.7425	53,077.0577	38.7222	3.1320	54,978.4548
Unmitigated	2,306.1785	40.9248	2,884.2170	5.0657		393.3846	393.3846		393.3846	393.3846	41,281.3151	11,795.7425	53,077.0577	38.7222	3.1320	54,978.4548

**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	3.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,266.3701	39.9761	2,802.0173	5.0614		392.9268	392.9268		392.9268	392.9268	41,281.3151	11,647.0588	52,928.3740	38.5805	3.1320	54,826.2277
Landscaping	2.4623	0.9486	82.1998	4.3600e-003		0.4577	0.4577		0.4577	0.4577		148.6837	148.6837	0.1417		152.2271
<b>Total</b>	<b>2,306.1785</b>	<b>40.9248</b>	<b>2,884.2170</b>	<b>5.0657</b>		<b>393.3846</b>	<b>393.3846</b>		<b>393.3846</b>	<b>393.3846</b>	<b>41,281.3151</b>	<b>11,795.7425</b>	<b>53,077.0577</b>	<b>38.7222</b>	<b>3.1320</b>	<b>54,978.4548</b>

## Construction - Yolo County, Winter

**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	lb/day										lb/day					
Architectural Coating	3.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2,266.3701	39.9761	2,802.0173	5.0614		392.9268	392.9268		392.9268	392.9268	41,281.3151	11,647.0588	52,928.3740	38.5805	3.1320	54,826.2277
Landscaping	2.4623	0.9486	82.1998	4.3600e-003		0.4577	0.4577		0.4577	0.4577		148.6837	148.6837	0.1417		152.2271
<b>Total</b>	<b>2,306.1785</b>	<b>40.9248</b>	<b>2,884.2170</b>	<b>5.0657</b>		<b>393.3846</b>	<b>393.3846</b>		<b>393.3846</b>	<b>393.3846</b>	<b>41,281.3151</b>	<b>11,795.7425</b>	<b>53,077.0577</b>	<b>38.7222</b>	<b>3.1320</b>	<b>54,978.4548</b>

**7.0 Water Detail****7.1 Mitigation Measures Water**

## Construction - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.0 Waste Detail**

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**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Existing Year 2040 - Yolo County, Annual

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

**Existing Year 2040**

**Yolo County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	518.37	1000sqft	12.35	518,373.00	0
Government Office Building	42.60	1000sqft	12.35	42,600.00	0
General Light Industry	24.39	1000sqft	0.56	24,394.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	5.00	Acre	5.00	217,800.00	0
High Turnover (Sit Down Restaurant)	348.19	1000sqft	12.35	348,185.00	0
Hotel	245.00	Room	12.35	348,185.00	0
Apartments Low Rise	406.00	Dwelling Unit	12.35	406,000.00	1161
Single Family Housing	100.00	Dwelling Unit	12.35	180,000.00	286
Strip Mall	280.50	1000sqft	12.35	280,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -



## Existing Year 2040 - Yolo County, Annual

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

Vehicle Trips - Based on VMT and trip generation provided. Please see assumptions in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions in the AQ/GHG appendix of the EIR.

Area Coating - Asphalt surfaces assumed not to be painted.

Energy Use -

Water And Wastewater - See details in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	104544	0
tblFireplaces	NumberGas	0.00	69.00
tblFireplaces	NumberNoFireplace	40.60	182.70
tblFireplaces	NumberNoFireplace	69.00	0.00
tblFireplaces	NumberWood	142.10	0.00
tblLandUse	LandUseSquareFeet	518,370.00	518,373.00
tblLandUse	LandUseSquareFeet	24,390.00	24,394.00
tblLandUse	LandUseSquareFeet	348,190.00	348,185.00
tblLandUse	LandUseSquareFeet	355,740.00	348,185.00
tblLandUse	LotAcreage	11.90	12.35
tblLandUse	LotAcreage	0.98	12.35
tblLandUse	LotAcreage	7.99	12.35
tblLandUse	LotAcreage	8.17	12.35
tblLandUse	LotAcreage	25.38	12.35
tblLandUse	LotAcreage	32.47	12.35
tblLandUse	LotAcreage	6.44	12.35
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73

## Existing Year 2040 - Yolo County, Annual

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

tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.73
tblVehicleTrips	HO_TL	7.00	4.73
tblVehicleTrips	HS_TL	5.00	4.73

## Existing Year 2040 - Yolo County, Annual

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

tblVehicleTrips	HS_TL	5.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	8.08
tblVehicleTrips	ST_TR	1.96	2,272.27
tblVehicleTrips	ST_TR	1.99	465.75
tblVehicleTrips	ST_TR	2.21	11.38
tblVehicleTrips	ST_TR	0.00	110.73
tblVehicleTrips	ST_TR	122.40	30.02
tblVehicleTrips	ST_TR	8.19	46.37



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

tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	26,452,534.40	1,528,275.25
tblWater	IndoorWaterUseRate	5,640,187.50	5,292,500.00
tblWater	IndoorWaterUseRate	92,131,842.95	2,747,960.41
tblWater	IndoorWaterUseRate	8,462,902.62	2,197,470.76
tblWater	IndoorWaterUseRate	105,687,403.33	4,868,867.87
tblWater	IndoorWaterUseRate	6,214,858.65	5,292,500.00
tblWater	IndoorWaterUseRate	6,515,402.56	5,292,500.00
tblWater	IndoorWaterUseRate	20,777,342.28	4,778,454.17
tblWater	OutdoorWaterUseRate	16,676,597.78	339,616.72
tblWater	OutdoorWaterUseRate	5,957,406.75	1,176,111.11
tblWater	OutdoorWaterUseRate	0.00	1,176,111.11
tblWater	OutdoorWaterUseRate	56,467,903.74	610,657.87
tblWater	OutdoorWaterUseRate	5,186,940.31	488,326.84
tblWater	OutdoorWaterUseRate	6,746,004.47	1,081,970.64
tblWater	OutdoorWaterUseRate	690,539.85	1,176,111.11
tblWater	OutdoorWaterUseRate	4,107,536.40	1,176,111.11
tblWater	OutdoorWaterUseRate	12,734,500.10	1,061,878.70
tblWater	SepticTankPercent	10.33	0.00

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

tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	20.30	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	20.30	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

**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					
2021	0.0996	0.9757	0.6799	1.2300e-003	3.4200e-003	0.0481	0.0515	9.1000e-004	0.0447	0.0456	0.0000	108.2692	108.2692	0.0298	9.0000e-005	109.0401
2022	0.1851	1.7766	1.4443	2.7500e-003	7.6200e-003	0.0858	0.0934	2.0300e-003	0.0798	0.0818	0.0000	240.7421	240.7421	0.0661	1.8000e-004	242.4490
<b>Maximum</b>	<b>0.1851</b>	<b>1.7766</b>	<b>1.4443</b>	<b>2.7500e-003</b>	<b>7.6200e-003</b>	<b>0.0858</b>	<b>0.0934</b>	<b>2.0300e-003</b>	<b>0.0798</b>	<b>0.0818</b>	<b>0.0000</b>	<b>240.7421</b>	<b>240.7421</b>	<b>0.0661</b>	<b>1.8000e-004</b>	<b>242.4490</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**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0996	0.9757	0.6799	1.2300e-003	3.4200e-003	0.0481	0.0515	9.1000e-004	0.0447	0.0456	0.0000	108.2691	108.2691	0.0298	9.0000e-005	109.0400
2022	0.1851	1.7766	1.4443	2.7500e-003	7.6200e-003	0.0858	0.0934	2.0300e-003	0.0798	0.0818	0.0000	240.7418	240.7418	0.0661	1.8000e-004	242.4487
<b>Maximum</b>	<b>0.1851</b>	<b>1.7766</b>	<b>1.4443</b>	<b>2.7500e-003</b>	<b>7.6200e-003</b>	<b>0.0858</b>	<b>0.0934</b>	<b>2.0300e-003</b>	<b>0.0798</b>	<b>0.0818</b>	<b>0.0000</b>	<b>240.7418</b>	<b>240.7418</b>	<b>0.0661</b>	<b>1.8000e-004</b>	<b>242.4487</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-7-2021	1-6-2022	1.1265	1.1265
2	1-7-2022	4-6-2022	0.9140	0.9140
3	4-7-2022	7-6-2022	0.9241	0.9241
4	7-7-2022	9-30-2022	0.0711	0.0711
		<b>Highest</b>	1.1265	1.1265

**2.2 Overall Operational****Unmitigated Operational**

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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					
Area	10.2456	0.2526	4.8569	3.0800e-003		0.1764	0.1764		0.1764	0.1764	12.4303	236.3941	248.8243	0.0103	5.3200e-003	250.6671
Energy	0.4034	3.6394	2.8785	0.0220		0.2787	0.2787		0.2787	0.2787	0.0000	6,384.3726	6,384.3726	0.4965	0.1241	6,433.7652
Mobile	19.7813	32.2614	188.0830	0.3973	51.5531	0.2323	51.7855	13.8294	0.2183	14.0478	0.0000	40,034.1407	40,034.1407	2.6903	2.4390	40,828.2122
Waste						0.0000	0.0000		0.0000	0.0000	1,099.0377	0.0000	1,099.0377	64.9513	0.0000	2,722.8195
Water						0.0000	0.0000		0.0000	0.0000	11.3211	17.2367	28.5578	0.0420	0.0250	37.0536
<b>Total</b>	<b>30.4302</b>	<b>36.1534</b>	<b>195.8184</b>	<b>0.4224</b>	<b>51.5531</b>	<b>0.6874</b>	<b>52.2405</b>	<b>13.8294</b>	<b>0.6734</b>	<b>14.5028</b>	<b>1,122.7891</b>	<b>46,672.1441</b>	<b>47,794.9332</b>	<b>68.1904</b>	<b>2.5934</b>	<b>50,272.5176</b>



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

**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	10.2456	0.2526	4.8569	3.0800e-003		0.1764	0.1764		0.1764	0.1764	12.4303	236.3941	248.8243	0.0103	5.3200e-003	250.6671
Energy	0.4034	3.6394	2.8785	0.0220		0.2787	0.2787		0.2787	0.2787	0.0000	6,384.3726	6,384.3726	0.4965	0.1241	6,433.7652
Mobile	19.7813	32.2614	188.0830	0.3973	51.5531	0.2323	51.7855	13.8294	0.2183	14.0478	0.0000	40,034.1407	40,034.1407	2.6903	2.4390	40,828.2122
Waste						0.0000	0.0000		0.0000	0.0000	1,099.0377	0.0000	1,099.0377	64.9513	0.0000	2,722.8195
Water						0.0000	0.0000		0.0000	0.0000	11.3211	17.2367	28.5578	0.0420	0.0250	37.0536
<b>Total</b>	<b>30.4302</b>	<b>36.1534</b>	<b>195.8184</b>	<b>0.4224</b>	<b>51.5531</b>	<b>0.6874</b>	<b>52.2405</b>	<b>13.8294</b>	<b>0.6734</b>	<b>14.5028</b>	<b>1,122.7891</b>	<b>46,672.1441</b>	<b>47,794.9332</b>	<b>68.1904</b>	<b>2.5934</b>	<b>50,272.5176</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/7/2021	7/13/2022	5	200	

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

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

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

**Acres of Paving: 40**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0981	0.9747	0.6685	1.2000e-003		0.0481	0.0481		0.0447	0.0447	0.0000	105.4024	105.4024	0.0297	0.0000	106.1441
<b>Total</b>	<b>0.0981</b>	<b>0.9747</b>	<b>0.6685</b>	<b>1.2000e-003</b>		<b>0.0481</b>	<b>0.0481</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>105.4024</b>	<b>105.4024</b>	<b>0.0297</b>	<b>0.0000</b>	<b>106.1441</b>

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**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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0100e-003	0.0114	3.0000e-005	3.4200e-003	2.0000e-005	3.4400e-003	9.1000e-004	2.0000e-005	9.3000e-004	0.0000	2.8668	2.8668	1.0000e-004	9.0000e-005	2.8960
<b>Total</b>	<b>1.4500e-003</b>	<b>1.0100e-003</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>3.4200e-003</b>	<b>2.0000e-005</b>	<b>3.4400e-003</b>	<b>9.1000e-004</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.8668</b>	<b>2.8668</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>2.8960</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	0.0981	0.9747	0.6685	1.2000e-003		0.0481	0.0481		0.0447	0.0447	0.0000	105.4023	105.4023	0.0297	0.0000	106.1440
<b>Total</b>	<b>0.0981</b>	<b>0.9747</b>	<b>0.6685</b>	<b>1.2000e-003</b>		<b>0.0481</b>	<b>0.0481</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>105.4023</b>	<b>105.4023</b>	<b>0.0297</b>	<b>0.0000</b>	<b>106.1440</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0100e-003	0.0114	3.0000e-005	3.4200e-003	2.0000e-005	3.4400e-003	9.1000e-004	2.0000e-005	9.3000e-004	0.0000	2.8668	2.8668	1.0000e-004	9.0000e-005	2.8960
<b>Total</b>	<b>1.4500e-003</b>	<b>1.0100e-003</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>3.4200e-003</b>	<b>2.0000e-005</b>	<b>3.4400e-003</b>	<b>9.1000e-004</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.8668</b>	<b>2.8668</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>2.8960</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Demolition - 2022****Unmitigated Construction 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	0.1821	1.7746	1.4210	2.6800e-003		0.0857	0.0857		0.0797	0.0797	0.0000	234.5326	234.5326	0.0659	0.0000	236.1795
<b>Total</b>	<b>0.1821</b>	<b>1.7746</b>	<b>1.4210</b>	<b>2.6800e-003</b>		<b>0.0857</b>	<b>0.0857</b>		<b>0.0797</b>	<b>0.0797</b>	<b>0.0000</b>	<b>234.5326</b>	<b>234.5326</b>	<b>0.0659</b>	<b>0.0000</b>	<b>236.1795</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	2.9800e-003	1.9800e-003	0.0234	7.0000e-005	7.6200e-003	4.0000e-005	7.6600e-003	2.0300e-003	4.0000e-005	2.0600e-003	0.0000	6.2095	6.2095	2.0000e-004	1.8000e-004	6.2695
<b>Total</b>	<b>2.9800e-003</b>	<b>1.9800e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>7.6200e-003</b>	<b>4.0000e-005</b>	<b>7.6600e-003</b>	<b>2.0300e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>	<b>0.0000</b>	<b>6.2095</b>	<b>6.2095</b>	<b>2.0000e-004</b>	<b>1.8000e-004</b>	<b>6.2695</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	0.1821	1.7746	1.4210	2.6800e-003		0.0857	0.0857		0.0797	0.0797	0.0000	234.5323	234.5323	0.0659	0.0000	236.1792
<b>Total</b>	<b>0.1821</b>	<b>1.7746</b>	<b>1.4210</b>	<b>2.6800e-003</b>		<b>0.0857</b>	<b>0.0857</b>		<b>0.0797</b>	<b>0.0797</b>	<b>0.0000</b>	<b>234.5323</b>	<b>234.5323</b>	<b>0.0659</b>	<b>0.0000</b>	<b>236.1792</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	2.9800e-003	1.9800e-003	0.0234	7.0000e-005	7.6200e-003	4.0000e-005	7.6600e-003	2.0300e-003	4.0000e-005	2.0600e-003	0.0000	6.2095	6.2095	2.0000e-004	1.8000e-004	6.2695
<b>Total</b>	<b>2.9800e-003</b>	<b>1.9800e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>7.6200e-003</b>	<b>4.0000e-005</b>	<b>7.6600e-003</b>	<b>2.0300e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>	<b>0.0000</b>	<b>6.2095</b>	<b>6.2095</b>	<b>2.0000e-004</b>	<b>1.8000e-004</b>	<b>6.2695</b>

**4.0 Operational Detail - Mobile**

## Existing Year 2040 - Yolo County, Annual

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

## 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	19.7813	32.2614	188.0830	0.3973	51.5531	0.2323	51.7855	13.8294	0.2183	14.0478	0.0000	40,034.1407	40,034.1407	2.6903	2.4390	40,828.2122
Unmitigated	19.7813	32.2614	188.0830	0.3973	51.5531	0.2323	51.7855	13.8294	0.2183	14.0478	0.0000	40,034.1407	40,034.1407	2.6903	2.4390	40,828.2122

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,280.48	3,280.48	3280.48	5,648,784	5,648,784
City Park	11,361.35	11,361.35	11361.35	19,563,545	19,563,545
General Light Industry	11,359.64	11,359.64	11359.64	19,560,605	19,560,605
General Office Building	5,899.05	5,899.05	5899.05	10,157,802	10,157,802
Government Office Building	4,717.10	4,717.10	4717.10	8,122,552	8,122,552
High Turnover (Sit Down Restaurant)	10,452.66	10,452.66	10452.66	17,998,843	17,998,843
Hotel	11,360.65	11,360.65	11360.65	19,562,339	19,562,339
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	11,361.00	11,361.00	11361.00	19,562,942	19,562,942
Strip Mall	10,257.89	10,257.89	10257.89	17,663,446	17,663,446
Total	80,049.82	80,049.82	80,049.82	137,840,859	137,840,859

## 4.3 Trip Type Information

Existing Year 2040 - Yolo County, Annual

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
City Park	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0
General Light Industry	4.73	4.73	4.73	59.00	28.00	13.00	100	0	0
General Office Building	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0
Government Office Building	4.73	4.73	4.73	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down	4.73	4.73	4.73	8.50	72.50	19.00	100	0	0
Hotel	4.73	4.73	4.73	19.40	61.60	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
Strip Mall	4.73	4.73	4.73	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
City Park	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Light Industry	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Hotel	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Other Asphalt Surfaces	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Single Family Housing	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**



## Existing Year 2040 - Yolo 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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,392.5382	2,392.5382	0.4200	0.0509	2,418.2094
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,392.5382	2,392.5382	0.4200	0.0509	2,418.2094
NaturalGas Mitigated	0.4034	3.6394	2.8785	0.0220		0.2787	0.2787		0.2787	0.2787	0.0000	3,991.8343	3,991.8343	0.0765	0.0732	4,015.5558
NaturalGas Unmitigated	0.4034	3.6394	2.8785	0.0220		0.2787	0.2787		0.2787	0.2787	0.0000	3,991.8343	3,991.8343	0.0765	0.0732	4,015.5558

## Existing Year 2040 - Yolo County, Annual

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

## 5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	5.84605e+006	0.0315	0.2694	0.1146	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	311.9675	311.9675	5.9800e-003	5.7200e-003	313.8214
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	533741	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4824	28.4824	5.5000e-004	5.2000e-004	28.6517
General Office Building	1.03934e+007	0.0560	0.5095	0.4280	3.0600e-003		0.0387	0.0387		0.0387	0.0387	0.0000	554.6303	554.6303	0.0106	0.0102	557.9262
Government Office Building	854130	4.6100e-003	0.0419	0.0352	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	45.5796	45.5796	8.7000e-004	8.4000e-004	45.8505
High Turnover (Sit Down Restaurant)	3.96757e+007	0.2139	1.9449	1.6337	0.0117		0.1478	0.1478		0.1478	0.1478	0.0000	2,117.2454	2,117.2454	0.0406	0.0388	2,129.8272
Hotel	9.93024e+006	0.0536	0.4868	0.4089	2.9200e-003		0.0370	0.0370		0.0370	0.0370	0.0000	529.9152	529.9152	0.0102	9.7200e-003	533.0642
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.50649e+006	0.0189	0.1616	0.0688	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.1196	187.1196	3.5900e-003	3.4300e-003	188.2315
Strip Mall	4.06445e+006	0.0219	0.1992	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151	0.0000	216.8943	216.8943	4.1600e-003	3.9800e-003	218.1832
<b>Total</b>		<b>0.4034</b>	<b>3.6394</b>	<b>2.8784</b>	<b>0.0220</b>		<b>0.2787</b>	<b>0.2787</b>		<b>0.2787</b>	<b>0.2787</b>	<b>0.0000</b>	<b>3,991.8343</b>	<b>3,991.8343</b>	<b>0.0765</b>	<b>0.0732</b>	<b>4,015.5558</b>

## Existing Year 2040 - Yolo County, Annual

**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	tons/yr										MT/yr					
Apartments Low Rise	5.84605e+006	0.0315	0.2694	0.1146	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	311.9675	311.9675	5.9800e-003	5.7200e-003	313.8214
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	533741	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4824	28.4824	5.5000e-004	5.2000e-004	28.6517
General Office Building	1.03934e+007	0.0560	0.5095	0.4280	3.0600e-003		0.0387	0.0387		0.0387	0.0387	0.0000	554.6303	554.6303	0.0106	0.0102	557.9262
Government Office Building	854130	4.6100e-003	0.0419	0.0352	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	45.5796	45.5796	8.7000e-004	8.4000e-004	45.8505
High Turnover (Sit Down Restaurant)	3.96757e+007	0.2139	1.9449	1.6337	0.0117		0.1478	0.1478		0.1478	0.1478	0.0000	2,117.2454	2,117.2454	0.0406	0.0388	2,129.8272
Hotel	9.93024e+006	0.0536	0.4868	0.4089	2.9200e-003		0.0370	0.0370		0.0370	0.0370	0.0000	529.9152	529.9152	0.0102	9.7200e-003	533.0642
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.50649e+006	0.0189	0.1616	0.0688	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.1196	187.1196	3.5900e-003	3.4300e-003	188.2315
Strip Mall	4.06445e+006	0.0219	0.1992	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151	0.0000	216.8943	216.8943	4.1600e-003	3.9800e-003	218.1832
<b>Total</b>		<b>0.4034</b>	<b>3.6394</b>	<b>2.8784</b>	<b>0.0220</b>		<b>0.2787</b>	<b>0.2787</b>		<b>0.2787</b>	<b>0.2787</b>	<b>0.0000</b>	<b>3,991.8343</b>	<b>3,991.8343</b>	<b>0.0765</b>	<b>0.0732</b>	<b>4,015.5558</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Low Rise	1.57353e+006		134.1712	0.0236	2.8500e-003	135.6108
City Park	0		0.0000	0.0000	0.0000	0.0000
General Light Industry	234914		20.0306	3.5200e-003	4.3000e-004	20.2455
General Office Building	6.06496e+006		517.1453	0.0908	0.0110	522.6941
Government Office Building	498420		42.4991	7.4600e-003	9.0000e-004	42.9551
High Turnover (Sit Down Restaurant)	1.2082e+007		1,030.2055	0.1809	0.0219	1,041.2593
Hotel	2.87949e+006		245.5274	0.0431	5.2200e-003	248.1618
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	765156		65.2431	0.0115	1.3900e-003	65.9431
Strip Mall	3.96066e+006		337.7162	0.0593	7.1900e-003	341.3398
<b>Total</b>			<b>2,392.5382</b>	<b>0.4200</b>	<b>0.0509</b>	<b>2,418.2095</b>

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

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Low Rise	1.57353e+006		134.1712	0.0236	2.8500e-003	135.6108
City Park	0		0.0000	0.0000	0.0000	0.0000
General Light Industry	234914		20.0306	3.5200e-003	4.3000e-004	20.2455
General Office Building	6.06496e+006		517.1453	0.0908	0.0110	522.6941
Government Office Building	498420		42.4991	7.4600e-003	9.0000e-004	42.9551
High Turnover (Sit Down Restaurant)	1.2082e+007		1,030.2055	0.1809	0.0219	1,041.2593
Hotel	2.87949e+006		245.5274	0.0431	5.2200e-003	248.1618
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	765156		65.2431	0.0115	1.3900e-003	65.9431
Strip Mall	3.96066e+006		337.7162	0.0593	7.1900e-003	341.3398
<b>Total</b>			<b>2,392.5382</b>	<b>0.4200</b>	<b>0.0509</b>	<b>2,418.2095</b>

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

## Existing Year 2040 - Yolo 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
Category	tons/yr										MT/yr					
Mitigated	10.2456	0.2526	4.8569	3.0800e-003		0.1764	0.1764		0.1764	0.1764	12.4303	236.3941	248.8243	0.0103	5.3200e-003	250.6671
Unmitigated	10.2456	0.2526	4.8569	3.0800e-003		0.1764	0.1764		0.1764	0.1764	12.4303	236.3941	248.8243	0.0103	5.3200e-003	250.6671

**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	0.6817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.5046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9461	0.2093	1.1026	2.8800e-003		0.1555	0.1555		0.1555	0.1555	12.4303	230.2300	242.6603	4.4100e-003	5.3200e-003	244.3553
Landscaping	0.1131	0.0433	3.7543	2.0000e-004		0.0209	0.0209		0.0209	0.0209	0.0000	6.1641	6.1641	5.9100e-003	0.0000	6.3118
<b>Total</b>	<b>10.2456</b>	<b>0.2526</b>	<b>4.8569</b>	<b>3.0800e-003</b>		<b>0.1764</b>	<b>0.1764</b>		<b>0.1764</b>	<b>0.1764</b>	<b>12.4303</b>	<b>236.3941</b>	<b>248.8243</b>	<b>0.0103</b>	<b>5.3200e-003</b>	<b>250.6671</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	0.6817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.5046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9461	0.2093	1.1026	2.8800e-003		0.1555	0.1555		0.1555	0.1555	12.4303	230.2300	242.6603	4.4100e-003	5.3200e-003	244.3553
Landscaping	0.1131	0.0433	3.7543	2.0000e-004		0.0209	0.0209		0.0209	0.0209	0.0000	6.1641	6.1641	5.9100e-003	0.0000	6.3118
<b>Total</b>	<b>10.2456</b>	<b>0.2526</b>	<b>4.8569</b>	<b>3.0800e-003</b>		<b>0.1764</b>	<b>0.1764</b>		<b>0.1764</b>	<b>0.1764</b>	<b>12.4303</b>	<b>236.3941</b>	<b>248.8243</b>	<b>0.0103</b>	<b>5.3200e-003</b>	<b>250.6671</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		28.5578	0.0420	0.0250	37.0536

Existing Year 2040 - Yolo County, Annual

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

Unmitigated		28.5578	0.0420	0.0250	37.0536
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Existing Year 2040 - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Low Rise	1.52828 / 0.339617		1.3472	2.0000e-003	1.1900e-003	1.7528
City Park	0 / 1.17611		0.3510	6.0000e-005	1.0000e-005	0.3548
General Light Industry	5.2925 / 1.17611		4.6654	6.9400e-003	4.1300e-003	6.0699
General Office Building	2.74796 / 0.610658		2.4223	3.6000e-003	2.1500e-003	3.1516
Government Office Building	2.19747 / 0.488327		1.9371	2.8800e-003	1.7200e-003	2.5203
High Turnover (Sit Down Restaurant)	4.86887 / 1.08197		4.2919	6.3800e-003	3.8000e-003	5.5841
Hotel	5.2925 / 1.17611		4.6654	6.9400e-003	4.1300e-003	6.0699
Other Asphalt Surfaces	0 / 0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.2925 / 1.17611		4.6654	6.9400e-003	4.1300e-003	6.0699
Strip Mall	4.77845 / 1.06188		4.2122	6.2600e-003	3.7300e-003	5.4804
<b>Total</b>			<b>28.5578</b>	<b>0.0420</b>	<b>0.0250</b>	<b>37.0536</b>

Existing Year 2040 - Yolo County, Annual

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

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Low Rise	1.52828 / 0.339617		1.3472	2.0000e-003	1.1900e-003	1.7528
City Park	0 / 1.17611		0.3510	6.0000e-005	1.0000e-005	0.3548
General Light Industry	5.2925 / 1.17611		4.6654	6.9400e-003	4.1300e-003	6.0699
General Office Building	2.74796 / 0.610658		2.4223	3.6000e-003	2.1500e-003	3.1516
Government Office Building	2.19747 / 0.488327		1.9371	2.8800e-003	1.7200e-003	2.5203
High Turnover (Sit Down Restaurant)	4.86887 / 1.08197		4.2919	6.3800e-003	3.8000e-003	5.5841
Hotel	5.2925 / 1.17611		4.6654	6.9400e-003	4.1300e-003	6.0699
Other Asphalt Surfaces	0 / 0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.2925 / 1.17611		4.6654	6.9400e-003	4.1300e-003	6.0699
Strip Mall	4.77845 / 1.06188		4.2122	6.2600e-003	3.7300e-003	5.4804
<b>Total</b>			<b>28.5578</b>	<b>0.0420</b>	<b>0.0250</b>	<b>37.0536</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

Existing Year 2040 - Yolo County, Annual

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

**Category/Year**

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		1,099.0377	64.9513	0.0000	2,722.8195
Unmitigated		1,099.0377	64.9513	0.0000	2,722.8195

Existing Year 2040 - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.2 Waste by Land Use****Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Low Rise	186.76		37.9106	2.2405	0.0000	93.9219
City Park	0.43		0.0873	5.1600e-003	0.0000	0.2163
General Light Industry	30.24		6.1385	0.3628	0.0000	15.2077
General Office Building	482.08		97.8579	5.7832	0.0000	242.4388
Government Office Building	39.62		8.0425	0.4753	0.0000	19.9250
High Turnover (Sit Down Restaurant)	4143.46		841.0849	49.7067	0.0000	2,083.7523
Hotel	134.14		27.2292	1.6092	0.0000	67.4592
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	102.96		20.9000	1.2352	0.0000	51.7787
Strip Mall	294.53		59.7869	3.5333	0.0000	148.1196
<b>Total</b>			<b>1,099.0377</b>	<b>64.9513</b>	<b>0.0000</b>	<b>2,722.8195</b>

Existing Year 2040 - Yolo County, Annual

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

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Low Rise	186.76		37.9106	2.2405	0.0000	93.9219
City Park	0.43		0.0873	5.1600e-003	0.0000	0.2163
General Light Industry	30.24		6.1385	0.3628	0.0000	15.2077
General Office Building	482.08		97.8579	5.7832	0.0000	242.4388
Government Office Building	39.62		8.0425	0.4753	0.0000	19.9250
High Turnover (Sit Down Restaurant)	4143.46		841.0849	49.7067	0.0000	2,083.7523
Hotel	134.14		27.2292	1.6092	0.0000	67.4592
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	102.96		20.9000	1.2352	0.0000	51.7787
Strip Mall	294.53		59.7869	3.5333	0.0000	148.1196
<b>Total</b>			<b>1,099.0377</b>	<b>64.9513</b>	<b>0.0000</b>	<b>2,722.8195</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Existing Year 2040 - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Existing Year 2040 - Yolo County, Summer

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

**Existing Year 2040**

**Yolo County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	518.37	1000sqft	12.35	518,373.00	0
Government Office Building	42.60	1000sqft	12.35	42,600.00	0
General Light Industry	24.39	1000sqft	0.56	24,394.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	5.00	Acre	5.00	217,800.00	0
High Turnover (Sit Down Restaurant)	348.19	1000sqft	12.35	348,185.00	0
Hotel	245.00	Room	12.35	348,185.00	0
Apartments Low Rise	406.00	Dwelling Unit	12.35	406,000.00	1161
Single Family Housing	100.00	Dwelling Unit	12.35	180,000.00	286
Strip Mall	280.50	1000sqft	12.35	280,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

## Existing Year 2040 - Yolo County, Summer

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

Vehicle Trips - Based on VMT and trip generation provided. Please see assumptions in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions in the AQ/GHG appendix of the EIR.

Area Coating - Asphalt surfaces assumed not to be painted.

Energy Use -

Water And Wastewater - See details in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	104544	0
tblFireplaces	NumberGas	0.00	69.00
tblFireplaces	NumberNoFireplace	40.60	182.70
tblFireplaces	NumberNoFireplace	69.00	0.00
tblFireplaces	NumberWood	142.10	0.00
tblLandUse	LandUseSquareFeet	518,370.00	518,373.00
tblLandUse	LandUseSquareFeet	24,390.00	24,394.00
tblLandUse	LandUseSquareFeet	348,190.00	348,185.00
tblLandUse	LandUseSquareFeet	355,740.00	348,185.00
tblLandUse	LotAcreage	11.90	12.35
tblLandUse	LotAcreage	0.98	12.35
tblLandUse	LotAcreage	7.99	12.35
tblLandUse	LotAcreage	8.17	12.35
tblLandUse	LotAcreage	25.38	12.35
tblLandUse	LotAcreage	32.47	12.35
tblLandUse	LotAcreage	6.44	12.35
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73



## Existing Year 2040 - Yolo County, Summer

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

tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.73
tblVehicleTrips	HO_TL	7.00	4.73
tblVehicleTrips	HS_TL	5.00	4.73

## Existing Year 2040 - Yolo County, Summer

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

tblVehicleTrips	HS_TL	5.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	8.08
tblVehicleTrips	ST_TR	1.96	2,272.27
tblVehicleTrips	ST_TR	1.99	465.75
tblVehicleTrips	ST_TR	2.21	11.38
tblVehicleTrips	ST_TR	0.00	110.73
tblVehicleTrips	ST_TR	122.40	30.02
tblVehicleTrips	ST_TR	8.19	46.37



## Existing Year 2040 - Yolo County, Summer

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

tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	26,452,534.40	1,528,275.25
tblWater	IndoorWaterUseRate	5,640,187.50	5,292,500.00
tblWater	IndoorWaterUseRate	92,131,842.95	2,747,960.41
tblWater	IndoorWaterUseRate	8,462,902.62	2,197,470.76
tblWater	IndoorWaterUseRate	105,687,403.33	4,868,867.87
tblWater	IndoorWaterUseRate	6,214,858.65	5,292,500.00
tblWater	IndoorWaterUseRate	6,515,402.56	5,292,500.00
tblWater	IndoorWaterUseRate	20,777,342.28	4,778,454.17
tblWater	OutdoorWaterUseRate	16,676,597.78	339,616.72
tblWater	OutdoorWaterUseRate	5,957,406.75	1,176,111.11
tblWater	OutdoorWaterUseRate	0.00	1,176,111.11
tblWater	OutdoorWaterUseRate	56,467,903.74	610,657.87
tblWater	OutdoorWaterUseRate	5,186,940.31	488,326.84
tblWater	OutdoorWaterUseRate	6,746,004.47	1,081,970.64
tblWater	OutdoorWaterUseRate	690,539.85	1,176,111.11
tblWater	OutdoorWaterUseRate	4,107,536.40	1,176,111.11
tblWater	OutdoorWaterUseRate	12,734,500.10	1,061,878.70
tblWater	SepticTankPercent	10.33	0.00

Existing Year 2040 - Yolo County, Summer

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

tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	20.30	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	20.30	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

**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					
2021	3.2198	31.4704	21.9906	0.0399	0.1141	1.5520	1.6661	0.0303	1.4417	1.4719	0.0000	3,859.2733	3,859.2733	1.0583	3.0000e-003	3,886.6243
2022	2.6896	25.7455	20.9837	0.0399	0.1141	1.2432	1.3573	0.0303	1.1558	1.1861	0.0000	3,855.0925	3,855.0925	1.0555	2.7600e-003	3,882.3035
<b>Maximum</b>	<b>3.2198</b>	<b>31.4704</b>	<b>21.9906</b>	<b>0.0399</b>	<b>0.1141</b>	<b>1.5520</b>	<b>1.6661</b>	<b>0.0303</b>	<b>1.4417</b>	<b>1.4719</b>	<b>0.0000</b>	<b>3,859.2733</b>	<b>3,859.2733</b>	<b>1.0583</b>	<b>3.0000e-003</b>	<b>3,886.6243</b>

Existing Year 2040 - Yolo County, Summer

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

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.2198	31.4704	21.9906	0.0399	0.1141	1.5520	1.6661	0.0303	1.4417	1.4719	0.0000	3,859.2733	3,859.2733	1.0583	3.0000e-003	3,886.6243
2022	2.6896	25.7455	20.9837	0.0399	0.1141	1.2432	1.3573	0.0303	1.1558	1.1861	0.0000	3,855.0925	3,855.0925	1.0555	2.7600e-003	3,882.3035
<b>Maximum</b>	<b>3.2198</b>	<b>31.4704</b>	<b>21.9906</b>	<b>0.0399</b>	<b>0.1141</b>	<b>1.5520</b>	<b>1.6661</b>	<b>0.0303</b>	<b>1.4417</b>	<b>1.4719</b>	<b>0.0000</b>	<b>3,859.2733</b>	<b>3,859.2733</b>	<b>1.0583</b>	<b>3.0000e-003</b>	<b>3,886.6243</b>

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

**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	74.6697	5.5854	68.6069	0.0725		4.0250	4.0250		4.0250	4.0250	334.1951	6,265.3790	6,599.5741	0.1910	0.1430	6,646.9547
Energy	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059

Existing Year 2040 - Yolo County, Summer

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

Mobile	138.6882	165.1704	1,063.2898	2.3206	292.5177	1.2775	293.7952	78.2585	1.2005	79.4590		258,003.7031	258,003.7031	15.6007	14.3261	262,662.8924
<b>Total</b>	<b>215.5680</b>	<b>190.6976</b>	<b>1,147.6690</b>	<b>2.5137</b>	<b>292.5177</b>	<b>6.8295</b>	<b>299.3472</b>	<b>78.2585</b>	<b>6.7525</b>	<b>85.0111</b>	<b>334.1951</b>	<b>288,380.0088</b>	<b>288,714.2039</b>	<b>16.2539</b>	<b>14.9111</b>	<b>293,564.0531</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	74.6697	5.5854	68.6069	0.0725		4.0250	4.0250		4.0250	4.0250	334.1951	6,265.3790	6,599.5741	0.1910	0.1430	6,646.9547
Energy	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059
Mobile	138.6882	165.1704	1,063.2898	2.3206	292.5177	1.2775	293.7952	78.2585	1.2005	79.4590		258,003.7031	258,003.7031	15.6007	14.3261	262,662.8924
<b>Total</b>	<b>215.5680</b>	<b>190.6976</b>	<b>1,147.6690</b>	<b>2.5137</b>	<b>292.5177</b>	<b>6.8295</b>	<b>299.3472</b>	<b>78.2585</b>	<b>6.7525</b>	<b>85.0111</b>	<b>334.1951</b>	<b>288,380.0088</b>	<b>288,714.2039</b>	<b>16.2539</b>	<b>14.9111</b>	<b>293,564.0531</b>

Existing Year 2040 - Yolo County, Summer

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

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/7/2021	7/13/2022	5	200	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 40****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**



Existing Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0547	0.0297	0.4256	1.1000e-003	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		111.3283	111.3283	3.4100e-003	3.0000e-003	112.3070
<b>Total</b>	<b>0.0547</b>	<b>0.0297</b>	<b>0.4256</b>	<b>1.1000e-003</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>111.3283</b>	<b>111.3283</b>	<b>3.4100e-003</b>	<b>3.0000e-003</b>	<b>112.3070</b>

Existing Year 2040 - Yolo County, Summer

**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	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0547	0.0297	0.4256	1.1000e-003	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		111.3283	111.3283	3.4100e-003	3.0000e-003	112.3070
<b>Total</b>	<b>0.0547</b>	<b>0.0297</b>	<b>0.4256</b>	<b>1.1000e-003</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>111.3283</b>	<b>111.3283</b>	<b>3.4100e-003</b>	<b>3.0000e-003</b>	<b>112.3070</b>

Existing Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Demolition - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0505	0.0261	0.3897	1.0600e-003	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		108.3113	108.3113	3.0700e-003	2.7600e-003	109.2115
<b>Total</b>	<b>0.0505</b>	<b>0.0261</b>	<b>0.3897</b>	<b>1.0600e-003</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>108.3113</b>	<b>108.3113</b>	<b>3.0700e-003</b>	<b>2.7600e-003</b>	<b>109.2115</b>

Existing Year 2040 - Yolo County, Summer

**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	lb/day										lb/day					
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>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0505	0.0261	0.3897	1.0600e-003	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		108.3113	108.3113	3.0700e-003	2.7600e-003	109.2115
<b>Total</b>	<b>0.0505</b>	<b>0.0261</b>	<b>0.3897</b>	<b>1.0600e-003</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>108.3113</b>	<b>108.3113</b>	<b>3.0700e-003</b>	<b>2.7600e-003</b>	<b>109.2115</b>

Existing Year 2040 - Yolo County, Summer

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	138.6882	165.1704	1,063.2898	2.3206	292.5177	1.2775	293.7952	78.2585	1.2005	79.4590		258,003.7031	258,003.7031	15.6007	14.3261	262,662.8924
Unmitigated	138.6882	165.1704	1,063.2898	2.3206	292.5177	1.2775	293.7952	78.2585	1.2005	79.4590		258,003.7031	258,003.7031	15.6007	14.3261	262,662.8924

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,280.48	3,280.48	3280.48	5,648,784	5,648,784
City Park	11,361.35	11,361.35	11361.35	19,563,545	19,563,545
General Light Industry	11,359.64	11,359.64	11359.64	19,560,605	19,560,605
General Office Building	5,899.05	5,899.05	5899.05	10,157,802	10,157,802
Government Office Building	4,717.10	4,717.10	4717.10	8,122,552	8,122,552
High Turnover (Sit Down Restaurant)	10,452.66	10,452.66	10452.66	17,998,843	17,998,843
Hotel	11,360.65	11,360.65	11360.65	19,562,339	19,562,339
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	11,361.00	11,361.00	11361.00	19,562,942	19,562,942
Strip Mall	10,257.89	10,257.89	10257.89	17,663,446	17,663,446
<b>Total</b>	<b>80,049.82</b>	<b>80,049.82</b>	<b>80,049.82</b>	<b>137,840,859</b>	<b>137,840,859</b>

**4.3 Trip Type Information**

Existing Year 2040 - Yolo County, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
City Park	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0
General Light Industry	4.73	4.73	4.73	59.00	28.00	13.00	100	0	0
General Office Building	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0
Government Office Building	4.73	4.73	4.73	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down	4.73	4.73	4.73	8.50	72.50	19.00	100	0	0
Hotel	4.73	4.73	4.73	19.40	61.60	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
Strip Mall	4.73	4.73	4.73	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
City Park	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Light Industry	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Hotel	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Other Asphalt Surfaces	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Single Family Housing	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

Existing Year 2040 - Yolo 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					
NaturalGas Mitigated	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059
NaturalGas Unmitigated	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059

Existing Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - Natural Gas****Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16016.6	0.1727	1.4760	0.6281	9.4200e-003		0.1193	0.1193		0.1193	0.1193		1,884.3033	1,884.3033	0.0361	0.0346	1,895.5007
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1462.3	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0357	172.0357	3.3000e-003	3.1500e-003	173.0580
General Office Building	28475	0.3071	2.7917	2.3450	0.0168		0.2122	0.2122		0.2122	0.2122		3,350.0012	3,350.0012	0.0642	0.0614	3,369.9086
Government Office Building	2340.08	0.0252	0.2294	0.1927	1.3800e-003		0.0174	0.0174		0.0174	0.0174		275.3038	275.3038	5.2800e-003	5.0500e-003	276.9398
High Turnover (Sit Down Restaurant)	108700	1.1723	10.6569	8.9518	0.0639		0.8099	0.8099		0.8099	0.8099		12,788.2936	12,788.2936	0.2451	0.2345	12,864.2880
Hotel	27206.1	0.2934	2.6673	2.2405	0.0160		0.2027	0.2027		0.2027	0.2027		3,200.7208	3,200.7208	0.0614	0.0587	3,219.7411
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9606.82	0.1036	0.8853	0.3767	5.6500e-003		0.0716	0.0716		0.0716	0.0716		1,130.2137	1,130.2137	0.0217	0.0207	1,136.9300
Strip Mall	11135.5	0.1201	1.0917	0.9170	6.5500e-003		0.0830	0.0830		0.0830	0.0830		1,310.0548	1,310.0548	0.0251	0.0240	1,317.8398
<b>Total</b>		<b>2.2102</b>	<b>19.9417</b>	<b>15.7723</b>	<b>0.1206</b>		<b>1.5270</b>	<b>1.5270</b>		<b>1.5270</b>	<b>1.5270</b>		<b>24,110.9267</b>	<b>24,110.9267</b>	<b>0.4621</b>	<b>0.4420</b>	<b>24,254.2059</b>



Existing Year 2040 - Yolo 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 Low Rise	16.0166	0.1727	1.4760	0.6281	9.4200e-003		0.1193	0.1193		0.1193	0.1193		1,884.3033	1,884.3033	0.0361	0.0346	1,895.5007
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.4623	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0357	172.0357	3.3000e-003	3.1500e-003	173.0580
General Office Building	28.475	0.3071	2.7917	2.3450	0.0168		0.2122	0.2122		0.2122	0.2122		3,350.0012	3,350.0012	0.0642	0.0614	3,369.9086
Government Office Building	2.34008	0.0252	0.2294	0.1927	1.3800e-003		0.0174	0.0174		0.0174	0.0174		275.3038	275.3038	5.2800e-003	5.0500e-003	276.9398
High Turnover (Sit Down Restaurant)	108.7	1.1723	10.6569	8.9518	0.0639		0.8099	0.8099		0.8099	0.8099		12,788.2936	12,788.2936	0.2451	0.2345	12,864.2880
Hotel	27.2061	0.2934	2.6673	2.2405	0.0160		0.2027	0.2027		0.2027	0.2027		3,200.7208	3,200.7208	0.0614	0.0587	3,219.7411
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.60682	0.1036	0.8853	0.3767	5.6500e-003		0.0716	0.0716		0.0716	0.0716		1,130.2137	1,130.2137	0.0217	0.0207	1,136.9300
Strip Mall	11.1355	0.1201	1.0917	0.9170	6.5500e-003		0.0830	0.0830		0.0830	0.0830		1,310.0548	1,310.0548	0.0251	0.0240	1,317.8398
<b>Total</b>		<b>2.2102</b>	<b>19.9417</b>	<b>15.7723</b>	<b>0.1206</b>		<b>1.5270</b>	<b>1.5270</b>		<b>1.5270</b>	<b>1.5270</b>		<b>24,110.9267</b>	<b>24,110.9267</b>	<b>0.4621</b>	<b>0.4420</b>	<b>24,254.2059</b>

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

Existing Year 2040 - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	74.6697	5.5854	68.6069	0.0725		4.0250	4.0250		4.0250	4.0250	334.1951	6,265.3790	6,599.5741	0.1910	0.1430	6,646.9547
Unmitigated	74.6697	5.5854	68.6069	0.0725		4.0250	4.0250		4.0250	4.0250	334.1951	6,265.3790	6,599.5741	0.1910	0.1430	6,646.9547

**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	3.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.6007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.0764	5.1043	26.8920	0.0703		3.7930	3.7930		3.7930	3.7930	334.1951	6,189.8824	6,524.0775	0.1186	0.1430	6,569.6482
Landscaping	1.2571	0.4811	41.7148	2.2200e-003		0.2320	0.2320		0.2320	0.2320		75.4966	75.4966	0.0724		77.3065
<b>Total</b>	<b>74.6697</b>	<b>5.5854</b>	<b>68.6069</b>	<b>0.0725</b>		<b>4.0250</b>	<b>4.0250</b>		<b>4.0250</b>	<b>4.0250</b>	<b>334.1951</b>	<b>6,265.3790</b>	<b>6,599.5741</b>	<b>0.1910</b>	<b>0.1430</b>	<b>6,646.9547</b>

Existing Year 2040 - Yolo County, Summer

**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	lb/day										lb/day					
Architectural Coating	3.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.6007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.0764	5.1043	26.8920	0.0703		3.7930	3.7930		3.7930	3.7930	334.1951	6,189.8824	6,524.0775	0.1186	0.1430	6,569.6482
Landscaping	1.2571	0.4811	41.7148	2.2200e-003		0.2320	0.2320		0.2320	0.2320		75.4966	75.4966	0.0724		77.3065
<b>Total</b>	<b>74.6697</b>	<b>5.5854</b>	<b>68.6069</b>	<b>0.0725</b>		<b>4.0250</b>	<b>4.0250</b>		<b>4.0250</b>	<b>4.0250</b>	<b>334.1951</b>	<b>6,265.3790</b>	<b>6,599.5741</b>	<b>0.1910</b>	<b>0.1430</b>	<b>6,646.9547</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**

Existing Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Existing Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Existing Year 2040**

Yolo County, Winter

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	518.37	1000sqft	12.35	518,373.00	0
Government Office Building	42.60	1000sqft	12.35	42,600.00	0
General Light Industry	24.39	1000sqft	0.56	24,394.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	5.00	Acre	5.00	217,800.00	0
High Turnover (Sit Down Restaurant)	348.19	1000sqft	12.35	348,185.00	0
Hotel	245.00	Room	12.35	348,185.00	0
Apartments Low Rise	406.00	Dwelling Unit	12.35	406,000.00	1161
Single Family Housing	100.00	Dwelling Unit	12.35	180,000.00	286
Strip Mall	280.50	1000sqft	12.35	280,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

## Existing Year 2040 - Yolo County, Winter

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

Vehicle Trips - Based on VMT and trip generation provided. Please see assumptions in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions in the AQ/GHG appendix of the EIR.

Area Coating - Asphalt surfaces assumed not to be painted.

Energy Use -

Water And Wastewater - See details in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	104544	0
tblFireplaces	NumberGas	0.00	69.00
tblFireplaces	NumberNoFireplace	40.60	182.70
tblFireplaces	NumberNoFireplace	69.00	0.00
tblFireplaces	NumberWood	142.10	0.00
tblLandUse	LandUseSquareFeet	518,370.00	518,373.00
tblLandUse	LandUseSquareFeet	24,390.00	24,394.00
tblLandUse	LandUseSquareFeet	348,190.00	348,185.00
tblLandUse	LandUseSquareFeet	355,740.00	348,185.00
tblLandUse	LotAcreage	11.90	12.35
tblLandUse	LotAcreage	0.98	12.35
tblLandUse	LotAcreage	7.99	12.35
tblLandUse	LotAcreage	8.17	12.35
tblLandUse	LotAcreage	25.38	12.35
tblLandUse	LotAcreage	32.47	12.35
tblLandUse	LotAcreage	6.44	12.35
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73

## Existing Year 2040 - Yolo County, Winter

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

tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.73
tblVehicleTrips	HO_TL	7.00	4.73
tblVehicleTrips	HS_TL	5.00	4.73

## Existing Year 2040 - Yolo County, Winter

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

tblVehicleTrips	HS_TL	5.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	8.08
tblVehicleTrips	ST_TR	1.96	2,272.27
tblVehicleTrips	ST_TR	1.99	465.75
tblVehicleTrips	ST_TR	2.21	11.38
tblVehicleTrips	ST_TR	0.00	110.73
tblVehicleTrips	ST_TR	122.40	30.02
tblVehicleTrips	ST_TR	8.19	46.37





## Existing Year 2040 - Yolo County, Winter

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

tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	26,452,534.40	1,528,275.25
tblWater	IndoorWaterUseRate	5,640,187.50	5,292,500.00
tblWater	IndoorWaterUseRate	92,131,842.95	2,747,960.41
tblWater	IndoorWaterUseRate	8,462,902.62	2,197,470.76
tblWater	IndoorWaterUseRate	105,687,403.33	4,868,867.87
tblWater	IndoorWaterUseRate	6,214,858.65	5,292,500.00
tblWater	IndoorWaterUseRate	6,515,402.56	5,292,500.00
tblWater	IndoorWaterUseRate	20,777,342.28	4,778,454.17
tblWater	OutdoorWaterUseRate	16,676,597.78	339,616.72
tblWater	OutdoorWaterUseRate	5,957,406.75	1,176,111.11
tblWater	OutdoorWaterUseRate	0.00	1,176,111.11
tblWater	OutdoorWaterUseRate	56,467,903.74	610,657.87
tblWater	OutdoorWaterUseRate	5,186,940.31	488,326.84
tblWater	OutdoorWaterUseRate	6,746,004.47	1,081,970.64
tblWater	OutdoorWaterUseRate	690,539.85	1,176,111.11
tblWater	OutdoorWaterUseRate	4,107,536.40	1,176,111.11
tblWater	OutdoorWaterUseRate	12,734,500.10	1,061,878.70
tblWater	SepticTankPercent	10.33	0.00

Existing Year 2040 - Yolo County, Winter

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

tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	20.30	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	20.30	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

**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					
2021	3.2138	31.4775	21.9425	0.0398	0.1141	1.5520	1.6661	0.0303	1.4417	1.4719	0.0000	3,847.3760	3,847.3760	1.0589	3.4600e-003	3,874.8787
2022	2.6843	25.7518	20.9418	0.0398	0.1141	1.2432	1.3573	0.0303	1.1558	1.1861	0.0000	3,843.5488	3,843.5488	1.0560	3.1900e-003	3,870.8991
<b>Maximum</b>	<b>3.2138</b>	<b>31.4775</b>	<b>21.9425</b>	<b>0.0398</b>	<b>0.1141</b>	<b>1.5520</b>	<b>1.6661</b>	<b>0.0303</b>	<b>1.4417</b>	<b>1.4719</b>	<b>0.0000</b>	<b>3,847.3760</b>	<b>3,847.3760</b>	<b>1.0589</b>	<b>3.4600e-003</b>	<b>3,874.8787</b>

Existing Year 2040 - Yolo County, Winter

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

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.2138	31.4775	21.9425	0.0398	0.1141	1.5520	1.6661	0.0303	1.4417	1.4719	0.0000	3,847.3760	3,847.3760	1.0589	3.4600e-003	3,874.8787
2022	2.6843	25.7518	20.9418	0.0398	0.1141	1.2432	1.3573	0.0303	1.1558	1.1861	0.0000	3,843.5488	3,843.5488	1.0560	3.1900e-003	3,870.8991
<b>Maximum</b>	<b>3.2138</b>	<b>31.4775</b>	<b>21.9425</b>	<b>0.0398</b>	<b>0.1141</b>	<b>1.5520</b>	<b>1.6661</b>	<b>0.0303</b>	<b>1.4417</b>	<b>1.4719</b>	<b>0.0000</b>	<b>3,847.3760</b>	<b>3,847.3760</b>	<b>1.0589</b>	<b>3.4600e-003</b>	<b>3,874.8787</b>

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

**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	74.6697	5.5854	68.6069	0.0725		4.0250	4.0250		4.0250	4.0250	334.1951	6,265.3790	6,599.5741	0.1910	0.1430	6,646.9547
Energy	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059

Existing Year 2040 - Yolo County, Winter

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

Mobile	102.3109	186.7894	1,134.0358	2.1512	292.5177	1.2788	293.7966	78.2585	1.2018	79.4603		238,851.9792	238,851.9792	17.3818	15.3463	243,859.7318
<b>Total</b>	<b>179.1908</b>	<b>212.3165</b>	<b>1,218.4150</b>	<b>2.3443</b>	<b>292.5177</b>	<b>6.8309</b>	<b>299.3486</b>	<b>78.2585</b>	<b>6.7538</b>	<b>85.0124</b>	<b>334.1951</b>	<b>269,228.2849</b>	<b>269,562.4800</b>	<b>18.0350</b>	<b>15.9313</b>	<b>274,760.8924</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	74.6697	5.5854	68.6069	0.0725		4.0250	4.0250		4.0250	4.0250	334.1951	6,265.3790	6,599.5741	0.1910	0.1430	6,646.9547
Energy	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059
Mobile	102.3109	186.7894	1,134.0358	2.1512	292.5177	1.2788	293.7966	78.2585	1.2018	79.4603		238,851.9792	238,851.9792	17.3818	15.3463	243,859.7318
<b>Total</b>	<b>179.1908</b>	<b>212.3165</b>	<b>1,218.4150</b>	<b>2.3443</b>	<b>292.5177</b>	<b>6.8309</b>	<b>299.3486</b>	<b>78.2585</b>	<b>6.7538</b>	<b>85.0124</b>	<b>334.1951</b>	<b>269,228.2849</b>	<b>269,562.4800</b>	<b>18.0350</b>	<b>15.9313</b>	<b>274,760.8924</b>

## Existing Year 2040 - Yolo 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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/7/2021	7/13/2022	5	200	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 40****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Existing Year 2040 - Yolo County, Winter

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

## 3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0487	0.0368	0.3775	9.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		99.4311	99.4311	3.9600e-003	3.4600e-003	100.5613
<b>Total</b>	<b>0.0487</b>	<b>0.0368</b>	<b>0.3775</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>99.4311</b>	<b>99.4311</b>	<b>3.9600e-003</b>	<b>3.4600e-003</b>	<b>100.5613</b>

## Existing Year 2040 - Yolo County, Winter

**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	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0487	0.0368	0.3775	9.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		99.4311	99.4311	3.9600e-003	3.4600e-003	100.5613
<b>Total</b>	<b>0.0487</b>	<b>0.0368</b>	<b>0.3775</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>99.4311</b>	<b>99.4311</b>	<b>3.9600e-003</b>	<b>3.4600e-003</b>	<b>100.5613</b>



Existing Year 2040 - Yolo County, Winter

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

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0451	0.0324	0.3478	9.5000e-004	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		96.7677	96.7677	3.5800e-003	3.1900e-003	97.8071
<b>Total</b>	<b>0.0451</b>	<b>0.0324</b>	<b>0.3478</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>96.7677</b>	<b>96.7677</b>	<b>3.5800e-003</b>	<b>3.1900e-003</b>	<b>97.8071</b>

## Existing Year 2040 - Yolo County, Winter

**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	lb/day										lb/day					
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>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0451	0.0324	0.3478	9.5000e-004	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		96.7677	96.7677	3.5800e-003	3.1900e-003	97.8071
<b>Total</b>	<b>0.0451</b>	<b>0.0324</b>	<b>0.3478</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>96.7677</b>	<b>96.7677</b>	<b>3.5800e-003</b>	<b>3.1900e-003</b>	<b>97.8071</b>

**4.0 Operational Detail - Mobile**

Existing Year 2040 - Yolo County, Winter

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	102.3109	186.7894	1,134.0358	2.1512	292.5177	1.2788	293.7966	78.2585	1.2018	79.4603		238,851.9792	238,851.9792	17.3818	15.3463	243,859.7318
Unmitigated	102.3109	186.7894	1,134.0358	2.1512	292.5177	1.2788	293.7966	78.2585	1.2018	79.4603		238,851.9792	238,851.9792	17.3818	15.3463	243,859.7318

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	3,280.48	3,280.48	3280.48	5,648,784	5,648,784
City Park	11,361.35	11,361.35	11361.35	19,563,545	19,563,545
General Light Industry	11,359.64	11,359.64	11359.64	19,560,605	19,560,605
General Office Building	5,899.05	5,899.05	5899.05	10,157,802	10,157,802
Government Office Building	4,717.10	4,717.10	4717.10	8,122,552	8,122,552
High Turnover (Sit Down Restaurant)	10,452.66	10,452.66	10452.66	17,998,843	17,998,843
Hotel	11,360.65	11,360.65	11360.65	19,562,339	19,562,339
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	11,361.00	11,361.00	11361.00	19,562,942	19,562,942
Strip Mall	10,257.89	10,257.89	10257.89	17,663,446	17,663,446
<b>Total</b>	<b>80,049.82</b>	<b>80,049.82</b>	<b>80,049.82</b>	<b>137,840,859</b>	<b>137,840,859</b>

**4.3 Trip Type Information**

Existing Year 2040 - Yolo County, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
City Park	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0
General Light Industry	4.73	4.73	4.73	59.00	28.00	13.00	100	0	0
General Office Building	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0
Government Office Building	4.73	4.73	4.73	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down	4.73	4.73	4.73	8.50	72.50	19.00	100	0	0
Hotel	4.73	4.73	4.73	19.40	61.60	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
Strip Mall	4.73	4.73	4.73	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
City Park	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Light Industry	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Hotel	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Other Asphalt Surfaces	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Single Family Housing	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

Existing Year 2040 - Yolo 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					
NaturalGas Mitigated	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059
NaturalGas Unmitigated	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059

Existing Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - Natural Gas****Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16016.6	0.1727	1.4760	0.6281	9.4200e-003		0.1193	0.1193		0.1193	0.1193		1,884.3033	1,884.3033	0.0361	0.0346	1,895.5007
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1462.3	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0357	172.0357	3.3000e-003	3.1500e-003	173.0580
General Office Building	28475	0.3071	2.7917	2.3450	0.0168		0.2122	0.2122		0.2122	0.2122		3,350.0012	3,350.0012	0.0642	0.0614	3,369.9086
Government Office Building	2340.08	0.0252	0.2294	0.1927	1.3800e-003		0.0174	0.0174		0.0174	0.0174		275.3038	275.3038	5.2800e-003	5.0500e-003	276.9398
High Turnover (Sit Down Restaurant)	108700	1.1723	10.6569	8.9518	0.0639		0.8099	0.8099		0.8099	0.8099		12,788.2936	12,788.2936	0.2451	0.2345	12,864.2880
Hotel	27206.1	0.2934	2.6673	2.2405	0.0160		0.2027	0.2027		0.2027	0.2027		3,200.7208	3,200.7208	0.0614	0.0587	3,219.7411
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9606.82	0.1036	0.8853	0.3767	5.6500e-003		0.0716	0.0716		0.0716	0.0716		1,130.2137	1,130.2137	0.0217	0.0207	1,136.9300
Strip Mall	11135.5	0.1201	1.0917	0.9170	6.5500e-003		0.0830	0.0830		0.0830	0.0830		1,310.0548	1,310.0548	0.0251	0.0240	1,317.8398
<b>Total</b>		<b>2.2102</b>	<b>19.9417</b>	<b>15.7723</b>	<b>0.1206</b>		<b>1.5270</b>	<b>1.5270</b>		<b>1.5270</b>	<b>1.5270</b>		<b>24,110.9267</b>	<b>24,110.9267</b>	<b>0.4621</b>	<b>0.4420</b>	<b>24,254.2059</b>

## Existing Year 2040 - Yolo 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 Low Rise	16.0166	0.1727	1.4760	0.6281	9.4200e-003		0.1193	0.1193		0.1193	0.1193		1,884.3033	1,884.3033	0.0361	0.0346	1,895.5007
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.4623	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0357	172.0357	3.3000e-003	3.1500e-003	173.0580
General Office Building	28.475	0.3071	2.7917	2.3450	0.0168		0.2122	0.2122		0.2122	0.2122		3,350.0012	3,350.0012	0.0642	0.0614	3,369.9086
Government Office Building	2.34008	0.0252	0.2294	0.1927	1.3800e-003		0.0174	0.0174		0.0174	0.0174		275.3038	275.3038	5.2800e-003	5.0500e-003	276.9398
High Turnover (Sit Down Restaurant)	108.7	1.1723	10.6569	8.9518	0.0639		0.8099	0.8099		0.8099	0.8099		12,788.2936	12,788.2936	0.2451	0.2345	12,864.2880
Hotel	27.2061	0.2934	2.6673	2.2405	0.0160		0.2027	0.2027		0.2027	0.2027		3,200.7208	3,200.7208	0.0614	0.0587	3,219.7411
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.60682	0.1036	0.8853	0.3767	5.6500e-003		0.0716	0.0716		0.0716	0.0716		1,130.2137	1,130.2137	0.0217	0.0207	1,136.9300
Strip Mall	11.1355	0.1201	1.0917	0.9170	6.5500e-003		0.0830	0.0830		0.0830	0.0830		1,310.0548	1,310.0548	0.0251	0.0240	1,317.8398
<b>Total</b>		<b>2.2102</b>	<b>19.9417</b>	<b>15.7723</b>	<b>0.1206</b>		<b>1.5270</b>	<b>1.5270</b>		<b>1.5270</b>	<b>1.5270</b>		<b>24,110.9267</b>	<b>24,110.9267</b>	<b>0.4621</b>	<b>0.4420</b>	<b>24,254.2059</b>

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

Existing Year 2040 - Yolo 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					
Mitigated	74.6697	5.5854	68.6069	0.0725		4.0250	4.0250		4.0250	4.0250	334.1951	6,265.3790	6,599.5741	0.1910	0.1430	6,646.9547
Unmitigated	74.6697	5.5854	68.6069	0.0725		4.0250	4.0250		4.0250	4.0250	334.1951	6,265.3790	6,599.5741	0.1910	0.1430	6,646.9547

**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	3.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.6007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.0764	5.1043	26.8920	0.0703		3.7930	3.7930		3.7930	3.7930	334.1951	6,189.8824	6,524.0775	0.1186	0.1430	6,569.6482
Landscaping	1.2571	0.4811	41.7148	2.2200e-003		0.2320	0.2320		0.2320	0.2320		75.4966	75.4966	0.0724		77.3065
<b>Total</b>	<b>74.6697</b>	<b>5.5854</b>	<b>68.6069</b>	<b>0.0725</b>		<b>4.0250</b>	<b>4.0250</b>		<b>4.0250</b>	<b>4.0250</b>	<b>334.1951</b>	<b>6,265.3790</b>	<b>6,599.5741</b>	<b>0.1910</b>	<b>0.1430</b>	<b>6,646.9547</b>



Existing Year 2040 - Yolo County, Winter

**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	lb/day										lb/day					
Architectural Coating	3.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.6007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.0764	5.1043	26.8920	0.0703		3.7930	3.7930		3.7930	3.7930	334.1951	6,189.8824	6,524.0775	0.1186	0.1430	6,569.6482
Landscaping	1.2571	0.4811	41.7148	2.2200e-003		0.2320	0.2320		0.2320	0.2320		75.4966	75.4966	0.0724		77.3065
<b>Total</b>	<b>74.6697</b>	<b>5.5854</b>	<b>68.6069</b>	<b>0.0725</b>		<b>4.0250</b>	<b>4.0250</b>		<b>4.0250</b>	<b>4.0250</b>	<b>334.1951</b>	<b>6,265.3790</b>	<b>6,599.5741</b>	<b>0.1910</b>	<b>0.1430</b>	<b>6,646.9547</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**

Existing Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Existing Baseline Year - Yolo County, Annual

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

Yolo County, Annual

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	518.37	1000sqft	12.35	518,373.00	0
Government Office Building	42.60	1000sqft	12.35	42,600.00	0
General Light Industry	24.39	1000sqft	0.56	24,394.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	5.00	Acre	5.00	217,800.00	0
High Turnover (Sit Down Restaurant)	348.19	1000sqft	12.35	348,185.00	0
Hotel	245.00	Room	12.35	348,185.00	0
Apartments Low Rise	406.00	Dwelling Unit	12.35	406,000.00	1161
Single Family Housing	100.00	Dwelling Unit	12.35	180,000.00	286
Strip Mall	280.50	1000sqft	12.35	280,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2019
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

## Existing Baseline Year - Yolo County, Annual

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

Vehicle Trips - Based on VMT and trip generation provided. Please see assumptions in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions in the AQ/GHG appendix of the EIR.

Area Coating - Asphalt surfaces assumed not to be painted.

Energy Use -

Water And Wastewater - See details in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	104544	0
tblFireplaces	NumberGas	0.00	69.00
tblFireplaces	NumberNoFireplace	40.60	182.70
tblFireplaces	NumberNoFireplace	69.00	0.00
tblFireplaces	NumberWood	142.10	0.00
tblLandUse	LandUseSquareFeet	518,370.00	518,373.00
tblLandUse	LandUseSquareFeet	24,390.00	24,394.00
tblLandUse	LandUseSquareFeet	348,190.00	348,185.00
tblLandUse	LandUseSquareFeet	355,740.00	348,185.00
tblLandUse	LotAcreage	11.90	12.35
tblLandUse	LotAcreage	0.98	12.35
tblLandUse	LotAcreage	7.99	12.35
tblLandUse	LotAcreage	8.17	12.35
tblLandUse	LotAcreage	25.38	12.35
tblLandUse	LotAcreage	32.47	12.35
tblLandUse	LotAcreage	6.44	12.35
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57

## Existing Baseline Year - Yolo County, Annual

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

tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.57
tblVehicleTrips	HO_TL	7.00	4.57
tblVehicleTrips	HS_TL	5.00	4.57

## Existing Baseline Year - Yolo County, Annual

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

tblVehicleTrips	HS_TL	5.00	4.57
tblVehicleTrips	HW_TL	10.00	4.57
tblVehicleTrips	HW_TL	10.00	4.57
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	23.33
tblVehicleTrips	ST_TR	1.96	1,894.51
tblVehicleTrips	ST_TR	1.99	388.32
tblVehicleTrips	ST_TR	2.21	18.27
tblVehicleTrips	ST_TR	0.00	222.36
tblVehicleTrips	ST_TR	122.40	27.21
tblVehicleTrips	ST_TR	8.19	38.66



## Existing Baseline Year - Yolo County, Annual

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

tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	26,452,534.40	2,252,571.43
tblWater	IndoorWaterUseRate	5,640,187.50	2,252,571.43
tblWater	IndoorWaterUseRate	92,131,842.95	2,252,571.43
tblWater	IndoorWaterUseRate	8,462,902.62	2,252,571.43
tblWater	IndoorWaterUseRate	105,687,403.33	2,252,571.43
tblWater	IndoorWaterUseRate	6,214,858.65	2,252,571.43
tblWater	IndoorWaterUseRate	6,515,402.56	2,252,571.43
tblWater	IndoorWaterUseRate	20,777,342.28	2,252,571.43
tblWater	OutdoorWaterUseRate	16,676,597.78	492,750.00
tblWater	OutdoorWaterUseRate	5,957,406.75	492,750.00
tblWater	OutdoorWaterUseRate	0.00	492,750.00
tblWater	OutdoorWaterUseRate	56,467,903.74	492,750.00
tblWater	OutdoorWaterUseRate	5,186,940.31	492,750.00
tblWater	OutdoorWaterUseRate	6,746,004.47	492,750.00
tblWater	OutdoorWaterUseRate	690,539.85	492,750.00
tblWater	OutdoorWaterUseRate	4,107,536.40	492,750.00
tblWater	OutdoorWaterUseRate	12,734,500.10	492,750.00
tblWater	SepticTankPercent	10.33	0.00



Existing Baseline Year - Yolo County, Annual

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

tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	20.30	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	20.30	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

**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					
2021	0.0996	0.9757	0.6799	1.2300e-003	3.4200e-003	0.0481	0.0515	9.1000e-004	0.0447	0.0456	0.0000	108.2692	108.2692	0.0298	9.0000e-005	109.0401
2022	0.1851	1.7766	1.4443	2.7500e-003	7.6200e-003	0.0858	0.0934	2.0300e-003	0.0798	0.0818	0.0000	240.7421	240.7421	0.0661	1.8000e-004	242.4490
<b>Maximum</b>	<b>0.1851</b>	<b>1.7766</b>	<b>1.4443</b>	<b>2.7500e-003</b>	<b>7.6200e-003</b>	<b>0.0858</b>	<b>0.0934</b>	<b>2.0300e-003</b>	<b>0.0798</b>	<b>0.0818</b>	<b>0.0000</b>	<b>240.7421</b>	<b>240.7421</b>	<b>0.0661</b>	<b>1.8000e-004</b>	<b>242.4490</b>

## Existing Baseline Year - Yolo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0996	0.9757	0.6799	1.2300e-003	3.4200e-003	0.0481	0.0515	9.1000e-004	0.0447	0.0456	0.0000	108.2691	108.2691	0.0298	9.0000e-005	109.0400
2022	0.1851	1.7766	1.4443	2.7500e-003	7.6200e-003	0.0858	0.0934	2.0300e-003	0.0798	0.0818	0.0000	240.7418	240.7418	0.0661	1.8000e-004	242.4487
<b>Maximum</b>	<b>0.1851</b>	<b>1.7766</b>	<b>1.4443</b>	<b>2.7500e-003</b>	<b>7.6200e-003</b>	<b>0.0858</b>	<b>0.0934</b>	<b>2.0300e-003</b>	<b>0.0798</b>	<b>0.0818</b>	<b>0.0000</b>	<b>240.7418</b>	<b>240.7418</b>	<b>0.0661</b>	<b>1.8000e-004</b>	<b>242.4487</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-7-2021	1-6-2022	1.1265	1.1265
2	1-7-2022	4-6-2022	0.9140	0.9140
3	4-7-2022	7-6-2022	0.9241	0.9241
4	7-7-2022	9-30-2022	0.0711	0.0711
		<b>Highest</b>	1.1265	1.1265

**2.2 Overall Operational****Unmitigated Operational**

## Existing Baseline Year - Yolo 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
Category	tons/yr										MT/yr					
Area	10.2494	0.2531	4.8922	3.0800e-003		0.1763	0.1763		0.1763	0.1763	12.4303	236.3941	248.8243	0.0105	5.3200e-003	250.6717
Energy	0.4034	3.6394	2.8785	0.0220		0.2787	0.2787		0.2787	0.2787	0.0000	6,384.3726	6,384.3726	0.4965	0.1241	6,433.7652
Mobile	47.6876	72.2495	370.0197	0.6288	52.9535	0.9720	53.9256	14.1907	0.9193	15.1100	0.0000	58,245.4318	58,245.4318	5.3860	3.8812	59,536.6887
Waste						0.0000	0.0000		0.0000	0.0000	1,099.0377	0.0000	1,099.0377	64.9513	0.0000	2,722.8195
Water						0.0000	0.0000		0.0000	0.0000	6.3757	9.6379	16.0136	0.0236	0.0141	20.7974
<b>Total</b>	<b>58.3404</b>	<b>76.1420</b>	<b>377.7904</b>	<b>0.6539</b>	<b>52.9535</b>	<b>1.4270</b>	<b>54.3805</b>	<b>14.1907</b>	<b>1.3742</b>	<b>15.5650</b>	<b>1,117.8437</b>	<b>64,875.8364</b>	<b>65,993.6800</b>	<b>70.8680</b>	<b>4.0247</b>	<b>68,964.7426</b>

## Existing Baseline Year - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****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	10.2494	0.2531	4.8922	3.0800e-003		0.1763	0.1763		0.1763	0.1763	12.4303	236.3941	248.8243	0.0105	5.3200e-003	250.6717
Energy	0.4034	3.6394	2.8785	0.0220		0.2787	0.2787		0.2787	0.2787	0.0000	6,384.3726	6,384.3726	0.4965	0.1241	6,433.7652
Mobile	47.6876	72.2495	370.0197	0.6288	52.9535	0.9720	53.9256	14.1907	0.9193	15.1100	0.0000	58,245.4318	58,245.4318	5.3860	3.8812	59,536.6887
Waste						0.0000	0.0000		0.0000	0.0000	1,099.0377	0.0000	1,099.0377	64.9513	0.0000	2,722.8195
Water						0.0000	0.0000		0.0000	0.0000	6.3757	9.6379	16.0136	0.0236	0.0141	20.7974
<b>Total</b>	<b>58.3404</b>	<b>76.1420</b>	<b>377.7904</b>	<b>0.6539</b>	<b>52.9535</b>	<b>1.4270</b>	<b>54.3805</b>	<b>14.1907</b>	<b>1.3742</b>	<b>15.5650</b>	<b>1,117.8437</b>	<b>64,875.8364</b>	<b>65,993.6800</b>	<b>70.8680</b>	<b>4.0247</b>	<b>68,964.7426</b>

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/7/2021	7/13/2022	5	200	

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

Existing Baseline Year - Yolo County, Annual

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

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

**Acres of Paving: 40**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0981	0.9747	0.6685	1.2000e-003		0.0481	0.0481		0.0447	0.0447	0.0000	105.4024	105.4024	0.0297	0.0000	106.1441
<b>Total</b>	<b>0.0981</b>	<b>0.9747</b>	<b>0.6685</b>	<b>1.2000e-003</b>		<b>0.0481</b>	<b>0.0481</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>105.4024</b>	<b>105.4024</b>	<b>0.0297</b>	<b>0.0000</b>	<b>106.1441</b>

Existing Baseline Year - Yolo County, Annual

**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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0100e-003	0.0114	3.0000e-005	3.4200e-003	2.0000e-005	3.4400e-003	9.1000e-004	2.0000e-005	9.3000e-004	0.0000	2.8668	2.8668	1.0000e-004	9.0000e-005	2.8960
<b>Total</b>	<b>1.4500e-003</b>	<b>1.0100e-003</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>3.4200e-003</b>	<b>2.0000e-005</b>	<b>3.4400e-003</b>	<b>9.1000e-004</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.8668</b>	<b>2.8668</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>2.8960</b>

## Existing Baseline Year - Yolo County, Annual

**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	0.0981	0.9747	0.6685	1.2000e-003		0.0481	0.0481		0.0447	0.0447	0.0000	105.4023	105.4023	0.0297	0.0000	106.1440
<b>Total</b>	<b>0.0981</b>	<b>0.9747</b>	<b>0.6685</b>	<b>1.2000e-003</b>		<b>0.0481</b>	<b>0.0481</b>		<b>0.0447</b>	<b>0.0447</b>	<b>0.0000</b>	<b>105.4023</b>	<b>105.4023</b>	<b>0.0297</b>	<b>0.0000</b>	<b>106.1440</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0100e-003	0.0114	3.0000e-005	3.4200e-003	2.0000e-005	3.4400e-003	9.1000e-004	2.0000e-005	9.3000e-004	0.0000	2.8668	2.8668	1.0000e-004	9.0000e-005	2.8960
<b>Total</b>	<b>1.4500e-003</b>	<b>1.0100e-003</b>	<b>0.0114</b>	<b>3.0000e-005</b>	<b>3.4200e-003</b>	<b>2.0000e-005</b>	<b>3.4400e-003</b>	<b>9.1000e-004</b>	<b>2.0000e-005</b>	<b>9.3000e-004</b>	<b>0.0000</b>	<b>2.8668</b>	<b>2.8668</b>	<b>1.0000e-004</b>	<b>9.0000e-005</b>	<b>2.8960</b>

## Existing Baseline Year - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Demolition - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1821	1.7746	1.4210	2.6800e-003		0.0857	0.0857		0.0797	0.0797	0.0000	234.5326	234.5326	0.0659	0.0000	236.1795
<b>Total</b>	<b>0.1821</b>	<b>1.7746</b>	<b>1.4210</b>	<b>2.6800e-003</b>		<b>0.0857</b>	<b>0.0857</b>		<b>0.0797</b>	<b>0.0797</b>	<b>0.0000</b>	<b>234.5326</b>	<b>234.5326</b>	<b>0.0659</b>	<b>0.0000</b>	<b>236.1795</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	2.9800e-003	1.9800e-003	0.0234	7.0000e-005	7.6200e-003	4.0000e-005	7.6600e-003	2.0300e-003	4.0000e-005	2.0600e-003	0.0000	6.2095	6.2095	2.0000e-004	1.8000e-004	6.2695
<b>Total</b>	<b>2.9800e-003</b>	<b>1.9800e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>7.6200e-003</b>	<b>4.0000e-005</b>	<b>7.6600e-003</b>	<b>2.0300e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>	<b>0.0000</b>	<b>6.2095</b>	<b>6.2095</b>	<b>2.0000e-004</b>	<b>1.8000e-004</b>	<b>6.2695</b>



## Existing Baseline Year - Yolo County, Annual

**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	0.1821	1.7746	1.4210	2.6800e-003		0.0857	0.0857		0.0797	0.0797	0.0000	234.5323	234.5323	0.0659	0.0000	236.1792
<b>Total</b>	<b>0.1821</b>	<b>1.7746</b>	<b>1.4210</b>	<b>2.6800e-003</b>		<b>0.0857</b>	<b>0.0857</b>		<b>0.0797</b>	<b>0.0797</b>	<b>0.0000</b>	<b>234.5323</b>	<b>234.5323</b>	<b>0.0659</b>	<b>0.0000</b>	<b>236.1792</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	2.9800e-003	1.9800e-003	0.0234	7.0000e-005	7.6200e-003	4.0000e-005	7.6600e-003	2.0300e-003	4.0000e-005	2.0600e-003	0.0000	6.2095	6.2095	2.0000e-004	1.8000e-004	6.2695
<b>Total</b>	<b>2.9800e-003</b>	<b>1.9800e-003</b>	<b>0.0234</b>	<b>7.0000e-005</b>	<b>7.6200e-003</b>	<b>4.0000e-005</b>	<b>7.6600e-003</b>	<b>2.0300e-003</b>	<b>4.0000e-005</b>	<b>2.0600e-003</b>	<b>0.0000</b>	<b>6.2095</b>	<b>6.2095</b>	<b>2.0000e-004</b>	<b>1.8000e-004</b>	<b>6.2695</b>

**4.0 Operational Detail - Mobile**

## Existing Baseline Year - Yolo County, Annual

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

## 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	47.6876	72.2495	370.0197	0.6288	52.9535	0.9720	53.9256	14.1907	0.9193	15.1100	0.0000	58,245.4318	58,245.4318	5.3860	3.8812	59,536.6887
Unmitigated	47.6876	72.2495	370.0197	0.6288	52.9535	0.9720	53.9256	14.1907	0.9193	15.1100	0.0000	58,245.4318	58,245.4318	5.3860	3.8812	59,536.6887

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	9,471.98	9,471.98	9471.98	15,760,242	15,760,242
City Park	9,472.55	9,472.55	9472.55	15,761,190	15,761,190
General Light Industry	9,471.12	9,471.12	9471.12	15,758,819	15,758,819
General Office Building	9,470.62	9,470.62	9470.62	15,757,979	15,757,979
Government Office Building	9,472.54	9,472.54	9472.54	15,761,167	15,761,167
High Turnover (Sit Down Restaurant)	9,474.25	9,474.25	9474.25	15,764,019	15,764,019
Hotel	9,471.70	9,471.70	9471.70	15,759,776	15,759,776
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	9,473.00	9,473.00	9473.00	15,761,939	15,761,939
Strip Mall	9,472.49	9,472.49	9472.49	15,761,082	15,761,082
Total	85,250.25	85,250.25	85,250.25	141,846,213	141,846,213

## 4.3 Trip Type Information

Existing Baseline Year - Yolo County, Annual

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.57	4.57	4.57	46.00	13.00	41.00	100	0	0
City Park	4.57	4.57	4.57	33.00	48.00	19.00	100	0	0
General Light Industry	4.57	4.57	4.57	59.00	28.00	13.00	100	0	0
General Office Building	4.57	4.57	4.57	33.00	48.00	19.00	100	0	0
Government Office Building	4.57	4.57	4.57	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down	4.57	4.57	4.57	8.50	72.50	19.00	100	0	0
Hotel	4.57	4.57	4.57	19.40	61.60	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	4.57	4.57	4.57	46.00	13.00	41.00	100	0	0
Strip Mall	4.57	4.57	4.57	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
City Park	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
General Light Industry	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
General Office Building	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Government Office Building	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
High Turnover (Sit Down Restaurant)	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Hotel	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Other Asphalt Surfaces	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Single Family Housing	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Strip Mall	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

## Existing Baseline Year - Yolo 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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,392.5382	2,392.5382	0.4200	0.0509	2,418.2094
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,392.5382	2,392.5382	0.4200	0.0509	2,418.2094
NaturalGas Mitigated	0.4034	3.6394	2.8785	0.0220		0.2787	0.2787		0.2787	0.2787	0.0000	3,991.8343	3,991.8343	0.0765	0.0732	4,015.5558
NaturalGas Unmitigated	0.4034	3.6394	2.8785	0.0220		0.2787	0.2787		0.2787	0.2787	0.0000	3,991.8343	3,991.8343	0.0765	0.0732	4,015.5558

## Existing Baseline Year - Yolo County, Annual

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

## 5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	5.84605e+006	0.0315	0.2694	0.1146	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	311.9675	311.9675	5.9800e-003	5.7200e-003	313.8214
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	533741	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4824	28.4824	5.5000e-004	5.2000e-004	28.6517
General Office Building	1.03934e+007	0.0560	0.5095	0.4280	3.0600e-003		0.0387	0.0387		0.0387	0.0387	0.0000	554.6303	554.6303	0.0106	0.0102	557.9262
Government Office Building	854130	4.6100e-003	0.0419	0.0352	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	45.5796	45.5796	8.7000e-004	8.4000e-004	45.8505
High Turnover (Sit Down Restaurant)	3.96757e+007	0.2139	1.9449	1.6337	0.0117		0.1478	0.1478		0.1478	0.1478	0.0000	2,117.2454	2,117.2454	0.0406	0.0388	2,129.8272
Hotel	9.93024e+006	0.0536	0.4868	0.4089	2.9200e-003		0.0370	0.0370		0.0370	0.0370	0.0000	529.9152	529.9152	0.0102	9.7200e-003	533.0642
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.50649e+006	0.0189	0.1616	0.0688	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.1196	187.1196	3.5900e-003	3.4300e-003	188.2315
Strip Mall	4.06445e+006	0.0219	0.1992	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151	0.0000	216.8943	216.8943	4.1600e-003	3.9800e-003	218.1832
<b>Total</b>		<b>0.4034</b>	<b>3.6394</b>	<b>2.8784</b>	<b>0.0220</b>		<b>0.2787</b>	<b>0.2787</b>		<b>0.2787</b>	<b>0.2787</b>	<b>0.0000</b>	<b>3,991.8343</b>	<b>3,991.8343</b>	<b>0.0765</b>	<b>0.0732</b>	<b>4,015.5558</b>

## Existing Baseline Year - Yolo County, Annual

**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	tons/yr										MT/yr					
Apartments Low Rise	5.84605e+006	0.0315	0.2694	0.1146	1.7200e-003		0.0218	0.0218		0.0218	0.0218	0.0000	311.9675	311.9675	5.9800e-003	5.7200e-003	313.8214
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	533741	2.8800e-003	0.0262	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4824	28.4824	5.5000e-004	5.2000e-004	28.6517
General Office Building	1.03934e+007	0.0560	0.5095	0.4280	3.0600e-003		0.0387	0.0387		0.0387	0.0387	0.0000	554.6303	554.6303	0.0106	0.0102	557.9262
Government Office Building	854130	4.6100e-003	0.0419	0.0352	2.5000e-004		3.1800e-003	3.1800e-003		3.1800e-003	3.1800e-003	0.0000	45.5796	45.5796	8.7000e-004	8.4000e-004	45.8505
High Turnover (Sit Down Restaurant)	3.96757e+007	0.2139	1.9449	1.6337	0.0117		0.1478	0.1478		0.1478	0.1478	0.0000	2,117.2454	2,117.2454	0.0406	0.0388	2,129.8272
Hotel	9.93024e+006	0.0536	0.4868	0.4089	2.9200e-003		0.0370	0.0370		0.0370	0.0370	0.0000	529.9152	529.9152	0.0102	9.7200e-003	533.0642
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.50649e+006	0.0189	0.1616	0.0688	1.0300e-003		0.0131	0.0131		0.0131	0.0131	0.0000	187.1196	187.1196	3.5900e-003	3.4300e-003	188.2315
Strip Mall	4.06445e+006	0.0219	0.1992	0.1674	1.2000e-003		0.0151	0.0151		0.0151	0.0151	0.0000	216.8943	216.8943	4.1600e-003	3.9800e-003	218.1832
<b>Total</b>		<b>0.4034</b>	<b>3.6394</b>	<b>2.8784</b>	<b>0.0220</b>		<b>0.2787</b>	<b>0.2787</b>		<b>0.2787</b>	<b>0.2787</b>	<b>0.0000</b>	<b>3,991.8343</b>	<b>3,991.8343</b>	<b>0.0765</b>	<b>0.0732</b>	<b>4,015.5558</b>

Existing Baseline Year - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Low Rise	1.57353e+006		134.1712	0.0236	2.8500e-003	135.6108
City Park	0		0.0000	0.0000	0.0000	0.0000
General Light Industry	234914		20.0306	3.5200e-003	4.3000e-004	20.2455
General Office Building	6.06496e+006		517.1453	0.0908	0.0110	522.6941
Government Office Building	498420		42.4991	7.4600e-003	9.0000e-004	42.9551
High Turnover (Sit Down Restaurant)	1.2082e+007		1,030.2055	0.1809	0.0219	1,041.2593
Hotel	2.87949e+006		245.5274	0.0431	5.2200e-003	248.1618
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	765156		65.2431	0.0115	1.3900e-003	65.9431
Strip Mall	3.96066e+006		337.7162	0.0593	7.1900e-003	341.3398
<b>Total</b>			<b>2,392.5382</b>	<b>0.4200</b>	<b>0.0509</b>	<b>2,418.2095</b>

Existing Baseline Year - Yolo County, Annual

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

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Low Rise	1.57353e+006		134.1712	0.0236	2.8500e-003	135.6108
City Park	0		0.0000	0.0000	0.0000	0.0000
General Light Industry	234914		20.0306	3.5200e-003	4.3000e-004	20.2455
General Office Building	6.06496e+006		517.1453	0.0908	0.0110	522.6941
Government Office Building	498420		42.4991	7.4600e-003	9.0000e-004	42.9551
High Turnover (Sit Down Restaurant)	1.2082e+007		1,030.2055	0.1809	0.0219	1,041.2593
Hotel	2.87949e+006		245.5274	0.0431	5.2200e-003	248.1618
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	765156		65.2431	0.0115	1.3900e-003	65.9431
Strip Mall	3.96066e+006		337.7162	0.0593	7.1900e-003	341.3398
<b>Total</b>			<b>2,392.5382</b>	<b>0.4200</b>	<b>0.0509</b>	<b>2,418.2095</b>

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



Existing Baseline Year - Yolo 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
Category	tons/yr										MT/yr					
Mitigated	10.2494	0.2531	4.8922	3.0800e-003		0.1763	0.1763		0.1763	0.1763	12.4303	236.3941	248.8243	0.0105	5.3200e-003	250.6717
Unmitigated	10.2494	0.2531	4.8922	3.0800e-003		0.1763	0.1763		0.1763	0.1763	12.4303	236.3941	248.8243	0.0105	5.3200e-003	250.6717

**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	0.6817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.5046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9461	0.2093	1.1026	2.8800e-003		0.1555	0.1555		0.1555	0.1555	12.4303	230.2300	242.6603	4.4100e-003	5.3200e-003	244.3553
Landscaping	0.1169	0.0439	3.7897	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1641	6.1641	6.1000e-003	0.0000	6.3165
<b>Total</b>	<b>10.2494</b>	<b>0.2531</b>	<b>4.8922</b>	<b>3.0800e-003</b>		<b>0.1763</b>	<b>0.1763</b>		<b>0.1763</b>	<b>0.1763</b>	<b>12.4303</b>	<b>236.3941</b>	<b>248.8243</b>	<b>0.0105</b>	<b>5.3200e-003</b>	<b>250.6717</b>

Existing Baseline Year - Yolo County, Annual

**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	0.6817					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.5046					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.9461	0.2093	1.1026	2.8800e-003		0.1555	0.1555		0.1555	0.1555	12.4303	230.2300	242.6603	4.4100e-003	5.3200e-003	244.3553
Landscaping	0.1169	0.0439	3.7897	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1641	6.1641	6.1000e-003	0.0000	6.3165
<b>Total</b>	<b>10.2494</b>	<b>0.2531</b>	<b>4.8922</b>	<b>3.0800e-003</b>		<b>0.1763</b>	<b>0.1763</b>		<b>0.1763</b>	<b>0.1763</b>	<b>12.4303</b>	<b>236.3941</b>	<b>248.8243</b>	<b>0.0105</b>	<b>5.3200e-003</b>	<b>250.6717</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e	
Category	tons/yr	MT/yr			
Mitigated	16.0136	0.0236	0.0141	20.7974	

Existing Baseline Year - Yolo County, Annual

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

Unmitigated		16.0136	0.0236	0.0141	20.7974
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Existing Baseline Year - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Low Rise	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
City Park	0 / 0.49275		0.1471	3.0000e-005	0.0000	0.1486
General Light Industry	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
General Office Building	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
Government Office Building	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
High Turnover (Sit Down Restaurant)	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
Hotel	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
Other Asphalt Surfaces	0 / 0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
Strip Mall	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
<b>Total</b>			<b>16.0136</b>	<b>0.0236</b>	<b>0.0141</b>	<b>20.7974</b>

Existing Baseline Year - Yolo County, Annual

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

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Low Rise	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
City Park	0 / 0.49275		0.1471	3.0000e-005	0.0000	0.1486
General Light Industry	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
General Office Building	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
Government Office Building	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
High Turnover (Sit Down Restaurant)	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
Hotel	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
Other Asphalt Surfaces	0 / 0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
Strip Mall	2.25257 / 0.49275		1.9833	2.9500e-003	1.7600e-003	2.5811
<b>Total</b>			<b>16.0136</b>	<b>0.0236</b>	<b>0.0141</b>	<b>20.7974</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

Existing Baseline Year - Yolo County, Annual

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

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		1,099.0377	64.9513	0.0000	2,722.8195
Unmitigated		1,099.0377	64.9513	0.0000	2,722.8195

Existing Baseline Year - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****8.2 Waste by Land Use****Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Low Rise	186.76		37.9106	2.2405	0.0000	93.9219
City Park	0.43		0.0873	5.1600e-003	0.0000	0.2163
General Light Industry	30.24		6.1385	0.3628	0.0000	15.2077
General Office Building	482.08		97.8579	5.7832	0.0000	242.4388
Government Office Building	39.62		8.0425	0.4753	0.0000	19.9250
High Turnover (Sit Down Restaurant)	4143.46		841.0849	49.7067	0.0000	2,083.7523
Hotel	134.14		27.2292	1.6092	0.0000	67.4592
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	102.96		20.9000	1.2352	0.0000	51.7787
Strip Mall	294.53		59.7869	3.5333	0.0000	148.1196
<b>Total</b>			<b>1,099.0377</b>	<b>64.9513</b>	<b>0.0000</b>	<b>2,722.8195</b>

Existing Baseline Year - Yolo County, Annual

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

**Mitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Low Rise	186.76		37.9106	2.2405	0.0000	93.9219
City Park	0.43		0.0873	5.1600e-003	0.0000	0.2163
General Light Industry	30.24		6.1385	0.3628	0.0000	15.2077
General Office Building	482.08		97.8579	5.7832	0.0000	242.4388
Government Office Building	39.62		8.0425	0.4753	0.0000	19.9250
High Turnover (Sit Down Restaurant)	4143.46		841.0849	49.7067	0.0000	2,083.7523
Hotel	134.14		27.2292	1.6092	0.0000	67.4592
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Single Family Housing	102.96		20.9000	1.2352	0.0000	51.7787
Strip Mall	294.53		59.7869	3.5333	0.0000	148.1196
<b>Total</b>			<b>1,099.0377</b>	<b>64.9513</b>	<b>0.0000</b>	<b>2,722.8195</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Existing Baseline Year - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Existing Baseline Year - Yolo County, Summer

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

Yolo County, Summer

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	518.37	1000sqft	12.35	518,373.00	0
Government Office Building	42.60	1000sqft	12.35	42,600.00	0
General Light Industry	24.39	1000sqft	0.56	24,394.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	5.00	Acre	5.00	217,800.00	0
High Turnover (Sit Down Restaurant)	348.19	1000sqft	12.35	348,185.00	0
Hotel	245.00	Room	12.35	348,185.00	0
Apartments Low Rise	406.00	Dwelling Unit	12.35	406,000.00	1161
Single Family Housing	100.00	Dwelling Unit	12.35	180,000.00	286
Strip Mall	280.50	1000sqft	12.35	280,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2019
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -

## Existing Baseline Year - Yolo County, Summer

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

Vehicle Trips - Based on VMT and trip generation provided. Please see assumptions in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions in the AQ/GHG appendix of the EIR.

Area Coating - Asphalt surfaces assumed not to be painted.

Energy Use -

Water And Wastewater - See details in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	104544	0
tblFireplaces	NumberGas	0.00	69.00
tblFireplaces	NumberNoFireplace	40.60	182.70
tblFireplaces	NumberNoFireplace	69.00	0.00
tblFireplaces	NumberWood	142.10	0.00
tblLandUse	LandUseSquareFeet	518,370.00	518,373.00
tblLandUse	LandUseSquareFeet	24,390.00	24,394.00
tblLandUse	LandUseSquareFeet	348,190.00	348,185.00
tblLandUse	LandUseSquareFeet	355,740.00	348,185.00
tblLandUse	LotAcreage	11.90	12.35
tblLandUse	LotAcreage	0.98	12.35
tblLandUse	LotAcreage	7.99	12.35
tblLandUse	LotAcreage	8.17	12.35
tblLandUse	LotAcreage	25.38	12.35
tblLandUse	LotAcreage	32.47	12.35
tblLandUse	LotAcreage	6.44	12.35
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57

## Existing Baseline Year - Yolo County, Summer

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

tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.57
tblVehicleTrips	HO_TL	7.00	4.57
tblVehicleTrips	HS_TL	5.00	4.57

## Existing Baseline Year - Yolo County, Summer

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

tblVehicleTrips	HS_TL	5.00	4.57
tblVehicleTrips	HW_TL	10.00	4.57
tblVehicleTrips	HW_TL	10.00	4.57
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	23.33
tblVehicleTrips	ST_TR	1.96	1,894.51
tblVehicleTrips	ST_TR	1.99	388.32
tblVehicleTrips	ST_TR	2.21	18.27
tblVehicleTrips	ST_TR	0.00	222.36
tblVehicleTrips	ST_TR	122.40	27.21
tblVehicleTrips	ST_TR	8.19	38.66



## Existing Baseline Year - Yolo County, Summer

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

tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	26,452,534.40	2,252,571.43
tblWater	IndoorWaterUseRate	5,640,187.50	2,252,571.43
tblWater	IndoorWaterUseRate	92,131,842.95	2,252,571.43
tblWater	IndoorWaterUseRate	8,462,902.62	2,252,571.43
tblWater	IndoorWaterUseRate	105,687,403.33	2,252,571.43
tblWater	IndoorWaterUseRate	6,214,858.65	2,252,571.43
tblWater	IndoorWaterUseRate	6,515,402.56	2,252,571.43
tblWater	IndoorWaterUseRate	20,777,342.28	2,252,571.43
tblWater	OutdoorWaterUseRate	16,676,597.78	492,750.00
tblWater	OutdoorWaterUseRate	5,957,406.75	492,750.00
tblWater	OutdoorWaterUseRate	0.00	492,750.00
tblWater	OutdoorWaterUseRate	56,467,903.74	492,750.00
tblWater	OutdoorWaterUseRate	5,186,940.31	492,750.00
tblWater	OutdoorWaterUseRate	6,746,004.47	492,750.00
tblWater	OutdoorWaterUseRate	690,539.85	492,750.00
tblWater	OutdoorWaterUseRate	4,107,536.40	492,750.00
tblWater	OutdoorWaterUseRate	12,734,500.10	492,750.00
tblWater	SepticTankPercent	10.33	0.00

Existing Baseline Year - Yolo County, Summer

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

tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	20.30	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	20.30	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

**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					
2021	3.2198	31.4704	21.9906	0.0399	0.1141	1.5520	1.6661	0.0303	1.4417	1.4719	0.0000	3,859.2733	3,859.2733	1.0583	3.0000e-003	3,886.6243
2022	2.6896	25.7455	20.9837	0.0399	0.1141	1.2432	1.3573	0.0303	1.1558	1.1861	0.0000	3,855.0925	3,855.0925	1.0555	2.7600e-003	3,882.3035
<b>Maximum</b>	<b>3.2198</b>	<b>31.4704</b>	<b>21.9906</b>	<b>0.0399</b>	<b>0.1141</b>	<b>1.5520</b>	<b>1.6661</b>	<b>0.0303</b>	<b>1.4417</b>	<b>1.4719</b>	<b>0.0000</b>	<b>3,859.2733</b>	<b>3,859.2733</b>	<b>1.0583</b>	<b>3.0000e-003</b>	<b>3,886.6243</b>



Existing Baseline Year - Yolo County, Summer

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

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.2198	31.4704	21.9906	0.0399	0.1141	1.5520	1.6661	0.0303	1.4417	1.4719	0.0000	3,859.2733	3,859.2733	1.0583	3.0000e-003	3,886.6243
2022	2.6896	25.7455	20.9837	0.0399	0.1141	1.2432	1.3573	0.0303	1.1558	1.1861	0.0000	3,855.0925	3,855.0925	1.0555	2.7600e-003	3,882.3035
<b>Maximum</b>	<b>3.2198</b>	<b>31.4704</b>	<b>21.9906</b>	<b>0.0399</b>	<b>0.1141</b>	<b>1.5520</b>	<b>1.6661</b>	<b>0.0303</b>	<b>1.4417</b>	<b>1.4719</b>	<b>0.0000</b>	<b>3,859.2733</b>	<b>3,859.2733</b>	<b>1.0583</b>	<b>3.0000e-003</b>	<b>3,886.6243</b>

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

**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	74.7115	5.5917	68.9995	0.0725		4.0234	4.0234		4.0234	4.0234	334.1951	6,265.3790	6,599.5741	0.1933	0.1430	6,647.0117
Energy	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059

Existing Baseline Year - Yolo County, Summer

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

Mobile	323.0240	367.7697	2,132.3647	3.6825	300.4813	5.3426	305.8239	80.3097	5.0526	85.3623		375,765.8424	375,765.8424	30.3900	22.5866	383,256.3968
<b>Total</b>	<b>399.9457</b>	<b>393.3031</b>	<b>2,217.1366</b>	<b>3.8756</b>	<b>300.4813</b>	<b>10.8930</b>	<b>311.3743</b>	<b>80.3097</b>	<b>10.6030</b>	<b>90.9127</b>	<b>334.1951</b>	<b>406,142.1481</b>	<b>406,476.3432</b>	<b>31.0455</b>	<b>23.1716</b>	<b>414,157.6144</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	74.7115	5.5917	68.9995	0.0725		4.0234	4.0234		4.0234	4.0234	334.1951	6,265.3790	6,599.5741	0.1933	0.1430	6,647.0117
Energy	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059
Mobile	323.0240	367.7697	2,132.3647	3.6825	300.4813	5.3426	305.8239	80.3097	5.0526	85.3623		375,765.8424	375,765.8424	30.3900	22.5866	383,256.3968
<b>Total</b>	<b>399.9457</b>	<b>393.3031</b>	<b>2,217.1366</b>	<b>3.8756</b>	<b>300.4813</b>	<b>10.8930</b>	<b>311.3743</b>	<b>80.3097</b>	<b>10.6030</b>	<b>90.9127</b>	<b>334.1951</b>	<b>406,142.1481</b>	<b>406,476.3432</b>	<b>31.0455</b>	<b>23.1716</b>	<b>414,157.6144</b>

## Existing Baseline Year - Yolo County, Summer

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

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/7/2021	7/13/2022	5	200	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 40****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Existing Baseline Year - Yolo County, Summer

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

## 3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0547	0.0297	0.4256	1.1000e-003	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		111.3283	111.3283	3.4100e-003	3.0000e-003	112.3070
<b>Total</b>	<b>0.0547</b>	<b>0.0297</b>	<b>0.4256</b>	<b>1.1000e-003</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>111.3283</b>	<b>111.3283</b>	<b>3.4100e-003</b>	<b>3.0000e-003</b>	<b>112.3070</b>

## Existing Baseline Year - Yolo County, Summer

**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	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0547	0.0297	0.4256	1.1000e-003	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		111.3283	111.3283	3.4100e-003	3.0000e-003	112.3070
<b>Total</b>	<b>0.0547</b>	<b>0.0297</b>	<b>0.4256</b>	<b>1.1000e-003</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>111.3283</b>	<b>111.3283</b>	<b>3.4100e-003</b>	<b>3.0000e-003</b>	<b>112.3070</b>

Existing Baseline Year - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Demolition - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0505	0.0261	0.3897	1.0600e-003	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		108.3113	108.3113	3.0700e-003	2.7600e-003	109.2115
<b>Total</b>	<b>0.0505</b>	<b>0.0261</b>	<b>0.3897</b>	<b>1.0600e-003</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>108.3113</b>	<b>108.3113</b>	<b>3.0700e-003</b>	<b>2.7600e-003</b>	<b>109.2115</b>

## Existing Baseline Year - Yolo County, Summer

**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	lb/day										lb/day					
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>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0505	0.0261	0.3897	1.0600e-003	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		108.3113	108.3113	3.0700e-003	2.7600e-003	109.2115
<b>Total</b>	<b>0.0505</b>	<b>0.0261</b>	<b>0.3897</b>	<b>1.0600e-003</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>108.3113</b>	<b>108.3113</b>	<b>3.0700e-003</b>	<b>2.7600e-003</b>	<b>109.2115</b>

**4.0 Operational Detail - Mobile**

## Existing Baseline Year - Yolo County, Summer

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

## 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	323.0240	367.7697	2,132.3647	3.6825	300.4813	5.3426	305.8239	80.3097	5.0526	85.3623		375,765.8424	375,765.8424	30.3900	22.5866	383,256.3968
Unmitigated	323.0240	367.7697	2,132.3647	3.6825	300.4813	5.3426	305.8239	80.3097	5.0526	85.3623		375,765.8424	375,765.8424	30.3900	22.5866	383,256.3968

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	9,471.98	9,471.98	9471.98	15,760,242	15,760,242
City Park	9,472.55	9,472.55	9472.55	15,761,190	15,761,190
General Light Industry	9,471.12	9,471.12	9471.12	15,758,819	15,758,819
General Office Building	9,470.62	9,470.62	9470.62	15,757,979	15,757,979
Government Office Building	9,472.54	9,472.54	9472.54	15,761,167	15,761,167
High Turnover (Sit Down Restaurant)	9,474.25	9,474.25	9474.25	15,764,019	15,764,019
Hotel	9,471.70	9,471.70	9471.70	15,759,776	15,759,776
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	9,473.00	9,473.00	9473.00	15,761,939	15,761,939
Strip Mall	9,472.49	9,472.49	9472.49	15,761,082	15,761,082
Total	85,250.25	85,250.25	85,250.25	141,846,213	141,846,213

## 4.3 Trip Type Information



Existing Baseline Year - Yolo County, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.57	4.57	4.57	46.00	13.00	41.00	100	0	0
City Park	4.57	4.57	4.57	33.00	48.00	19.00	100	0	0
General Light Industry	4.57	4.57	4.57	59.00	28.00	13.00	100	0	0
General Office Building	4.57	4.57	4.57	33.00	48.00	19.00	100	0	0
Government Office Building	4.57	4.57	4.57	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down	4.57	4.57	4.57	8.50	72.50	19.00	100	0	0
Hotel	4.57	4.57	4.57	19.40	61.60	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	4.57	4.57	4.57	46.00	13.00	41.00	100	0	0
Strip Mall	4.57	4.57	4.57	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
City Park	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
General Light Industry	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
General Office Building	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Government Office Building	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
High Turnover (Sit Down Restaurant)	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Hotel	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Other Asphalt Surfaces	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Single Family Housing	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Strip Mall	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

Existing Baseline Year - Yolo 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					
NaturalGas Mitigated	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059
NaturalGas Unmitigated	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059

## Existing Baseline Year - Yolo County, Summer

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

## 5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16016.6	0.1727	1.4760	0.6281	9.4200e-003		0.1193	0.1193		0.1193	0.1193		1,884.3033	1,884.3033	0.0361	0.0346	1,895.5007
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1462.3	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0357	172.0357	3.3000e-003	3.1500e-003	173.0580
General Office Building	28475	0.3071	2.7917	2.3450	0.0168		0.2122	0.2122		0.2122	0.2122		3,350.0012	3,350.0012	0.0642	0.0614	3,369.9086
Government Office Building	2340.08	0.0252	0.2294	0.1927	1.3800e-003		0.0174	0.0174		0.0174	0.0174		275.3038	275.3038	5.2800e-003	5.0500e-003	276.9398
High Turnover (Sit Down Restaurant)	108700	1.1723	10.6569	8.9518	0.0639		0.8099	0.8099		0.8099	0.8099		12,788.2936	12,788.2936	0.2451	0.2345	12,864.2880
Hotel	27206.1	0.2934	2.6673	2.2405	0.0160		0.2027	0.2027		0.2027	0.2027		3,200.7208	3,200.7208	0.0614	0.0587	3,219.7411
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9606.82	0.1036	0.8853	0.3767	5.6500e-003		0.0716	0.0716		0.0716	0.0716		1,130.2137	1,130.2137	0.0217	0.0207	1,136.9300
Strip Mall	11135.5	0.1201	1.0917	0.9170	6.5500e-003		0.0830	0.0830		0.0830	0.0830		1,310.0548	1,310.0548	0.0251	0.0240	1,317.8398
<b>Total</b>		<b>2.2102</b>	<b>19.9417</b>	<b>15.7723</b>	<b>0.1206</b>		<b>1.5270</b>	<b>1.5270</b>		<b>1.5270</b>	<b>1.5270</b>		<b>24,110.9267</b>	<b>24,110.9267</b>	<b>0.4621</b>	<b>0.4420</b>	<b>24,254.2059</b>

## Existing Baseline Year - Yolo 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 Low Rise	16.0166	0.1727	1.4760	0.6281	9.4200e-003		0.1193	0.1193		0.1193	0.1193		1,884.3033	1,884.3033	0.0361	0.0346	1,895.5007
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.4623	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0357	172.0357	3.3000e-003	3.1500e-003	173.0580
General Office Building	28.475	0.3071	2.7917	2.3450	0.0168		0.2122	0.2122		0.2122	0.2122		3,350.0012	3,350.0012	0.0642	0.0614	3,369.9086
Government Office Building	2.34008	0.0252	0.2294	0.1927	1.3800e-003		0.0174	0.0174		0.0174	0.0174		275.3038	275.3038	5.2800e-003	5.0500e-003	276.9398
High Turnover (Sit Down Restaurant)	108.7	1.1723	10.6569	8.9518	0.0639		0.8099	0.8099		0.8099	0.8099		12,788.2936	12,788.2936	0.2451	0.2345	12,864.2880
Hotel	27.2061	0.2934	2.6673	2.2405	0.0160		0.2027	0.2027		0.2027	0.2027		3,200.7208	3,200.7208	0.0614	0.0587	3,219.7411
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.60682	0.1036	0.8853	0.3767	5.6500e-003		0.0716	0.0716		0.0716	0.0716		1,130.2137	1,130.2137	0.0217	0.0207	1,136.9300
Strip Mall	11.1355	0.1201	1.0917	0.9170	6.5500e-003		0.0830	0.0830		0.0830	0.0830		1,310.0548	1,310.0548	0.0251	0.0240	1,317.8398
<b>Total</b>		<b>2.2102</b>	<b>19.9417</b>	<b>15.7723</b>	<b>0.1206</b>		<b>1.5270</b>	<b>1.5270</b>		<b>1.5270</b>	<b>1.5270</b>		<b>24,110.9267</b>	<b>24,110.9267</b>	<b>0.4621</b>	<b>0.4420</b>	<b>24,254.2059</b>

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

## Existing Baseline Year - Yolo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	74.7115	5.5917	68.9995	0.0725		4.0234	4.0234		4.0234	4.0234	334.1951	6,265.3790	6,599.5741	0.1933	0.1430	6,647.0117
Unmitigated	74.7115	5.5917	68.9995	0.0725		4.0234	4.0234		4.0234	4.0234	334.1951	6,265.3790	6,599.5741	0.1933	0.1430	6,647.0117

**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	3.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.6007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.0764	5.1043	26.8920	0.0703		3.7930	3.7930		3.7930	3.7930	334.1951	6,189.8824	6,524.0775	0.1186	0.1430	6,569.6482
Landscaping	1.2989	0.4874	42.1075	2.2200e-003		0.2304	0.2304		0.2304	0.2304		75.4966	75.4966	0.0747		77.3635
<b>Total</b>	<b>74.7115</b>	<b>5.5917</b>	<b>68.9995</b>	<b>0.0725</b>		<b>4.0234</b>	<b>4.0234</b>		<b>4.0234</b>	<b>4.0234</b>	<b>334.1951</b>	<b>6,265.3790</b>	<b>6,599.5741</b>	<b>0.1933</b>	<b>0.1430</b>	<b>6,647.0117</b>

## Existing Baseline Year - Yolo County, Summer

**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	lb/day										lb/day					
Architectural Coating	3.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.6007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.0764	5.1043	26.8920	0.0703		3.7930	3.7930		3.7930	3.7930	334.1951	6,189.8824	6,524.0775	0.1186	0.1430	6,569.6482
Landscaping	1.2989	0.4874	42.1075	2.2200e-003		0.2304	0.2304		0.2304	0.2304		75.4966	75.4966	0.0747		77.3635
<b>Total</b>	<b>74.7115</b>	<b>5.5917</b>	<b>68.9995</b>	<b>0.0725</b>		<b>4.0234</b>	<b>4.0234</b>		<b>4.0234</b>	<b>4.0234</b>	<b>334.1951</b>	<b>6,265.3790</b>	<b>6,599.5741</b>	<b>0.1933</b>	<b>0.1430</b>	<b>6,647.0117</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**

Existing Baseline Year - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Existing Baseline Year - Yolo County, Winter

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

Yolo County, Winter

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	518.37	1000sqft	12.35	518,373.00	0
Government Office Building	42.60	1000sqft	12.35	42,600.00	0
General Light Industry	24.39	1000sqft	0.56	24,394.00	0
Other Asphalt Surfaces	40.00	Acre	40.00	1,742,400.00	0
City Park	5.00	Acre	5.00	217,800.00	0
High Turnover (Sit Down Restaurant)	348.19	1000sqft	12.35	348,185.00	0
Hotel	245.00	Room	12.35	348,185.00	0
Apartments Low Rise	406.00	Dwelling Unit	12.35	406,000.00	1161
Single Family Housing	100.00	Dwelling Unit	12.35	180,000.00	286
Strip Mall	280.50	1000sqft	12.35	280,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2019
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions file in the AQ/GHG appendix of the DEIR.

Construction Phase -



## Existing Baseline Year - Yolo County, Winter

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

Vehicle Trips - Based on VMT and trip generation provided. Please see assumptions in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions in the AQ/GHG appendix of the EIR.

Area Coating - Asphalt surfaces assumed not to be painted.

Energy Use -

Water And Wastewater - See details in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	104544	0
tblFireplaces	NumberGas	0.00	69.00
tblFireplaces	NumberNoFireplace	40.60	182.70
tblFireplaces	NumberNoFireplace	69.00	0.00
tblFireplaces	NumberWood	142.10	0.00
tblLandUse	LandUseSquareFeet	518,370.00	518,373.00
tblLandUse	LandUseSquareFeet	24,390.00	24,394.00
tblLandUse	LandUseSquareFeet	348,190.00	348,185.00
tblLandUse	LandUseSquareFeet	355,740.00	348,185.00
tblLandUse	LotAcreage	11.90	12.35
tblLandUse	LotAcreage	0.98	12.35
tblLandUse	LotAcreage	7.99	12.35
tblLandUse	LotAcreage	8.17	12.35
tblLandUse	LotAcreage	25.38	12.35
tblLandUse	LotAcreage	32.47	12.35
tblLandUse	LotAcreage	6.44	12.35
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57

## Existing Baseline Year - Yolo County, Winter

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

tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CC_TL	5.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CNW_TL	7.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	CW_TL	10.00	4.57
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	38.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.57
tblVehicleTrips	HO_TL	7.00	4.57
tblVehicleTrips	HS_TL	5.00	4.57

## Existing Baseline Year - Yolo County, Winter

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

tblVehicleTrips	HS_TL	5.00	4.57
tblVehicleTrips	HW_TL	10.00	4.57
tblVehicleTrips	HW_TL	10.00	4.57
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	58.00	100.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	23.33
tblVehicleTrips	ST_TR	1.96	1,894.51
tblVehicleTrips	ST_TR	1.99	388.32
tblVehicleTrips	ST_TR	2.21	18.27
tblVehicleTrips	ST_TR	0.00	222.36
tblVehicleTrips	ST_TR	122.40	27.21
tblVehicleTrips	ST_TR	8.19	38.66



## Existing Baseline Year - Yolo County, Winter

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

tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	26,452,534.40	2,252,571.43
tblWater	IndoorWaterUseRate	5,640,187.50	2,252,571.43
tblWater	IndoorWaterUseRate	92,131,842.95	2,252,571.43
tblWater	IndoorWaterUseRate	8,462,902.62	2,252,571.43
tblWater	IndoorWaterUseRate	105,687,403.33	2,252,571.43
tblWater	IndoorWaterUseRate	6,214,858.65	2,252,571.43
tblWater	IndoorWaterUseRate	6,515,402.56	2,252,571.43
tblWater	IndoorWaterUseRate	20,777,342.28	2,252,571.43
tblWater	OutdoorWaterUseRate	16,676,597.78	492,750.00
tblWater	OutdoorWaterUseRate	5,957,406.75	492,750.00
tblWater	OutdoorWaterUseRate	0.00	492,750.00
tblWater	OutdoorWaterUseRate	56,467,903.74	492,750.00
tblWater	OutdoorWaterUseRate	5,186,940.31	492,750.00
tblWater	OutdoorWaterUseRate	6,746,004.47	492,750.00
tblWater	OutdoorWaterUseRate	690,539.85	492,750.00
tblWater	OutdoorWaterUseRate	4,107,536.40	492,750.00
tblWater	OutdoorWaterUseRate	12,734,500.10	492,750.00
tblWater	SepticTankPercent	10.33	0.00

Existing Baseline Year - Yolo County, Winter

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

tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	20.30	0.00
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	20.30	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

**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					
2021	3.2138	31.4775	21.9425	0.0398	0.1141	1.5520	1.6661	0.0303	1.4417	1.4719	0.0000	3,847.3760	3,847.3760	1.0589	3.4600e-003	3,874.8787
2022	2.6843	25.7518	20.9418	0.0398	0.1141	1.2432	1.3573	0.0303	1.1558	1.1861	0.0000	3,843.5488	3,843.5488	1.0560	3.1900e-003	3,870.8991
<b>Maximum</b>	<b>3.2138</b>	<b>31.4775</b>	<b>21.9425</b>	<b>0.0398</b>	<b>0.1141</b>	<b>1.5520</b>	<b>1.6661</b>	<b>0.0303</b>	<b>1.4417</b>	<b>1.4719</b>	<b>0.0000</b>	<b>3,847.3760</b>	<b>3,847.3760</b>	<b>1.0589</b>	<b>3.4600e-003</b>	<b>3,874.8787</b>

Existing Baseline Year - Yolo County, Winter

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

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	3.2138	31.4775	21.9425	0.0398	0.1141	1.5520	1.6661	0.0303	1.4417	1.4719	0.0000	3,847.3760	3,847.3760	1.0589	3.4600e-003	3,874.8787
2022	2.6843	25.7518	20.9418	0.0398	0.1141	1.2432	1.3573	0.0303	1.1558	1.1861	0.0000	3,843.5488	3,843.5488	1.0560	3.1900e-003	3,870.8991
<b>Maximum</b>	<b>3.2138</b>	<b>31.4775</b>	<b>21.9425</b>	<b>0.0398</b>	<b>0.1141</b>	<b>1.5520</b>	<b>1.6661</b>	<b>0.0303</b>	<b>1.4417</b>	<b>1.4719</b>	<b>0.0000</b>	<b>3,847.3760</b>	<b>3,847.3760</b>	<b>1.0589</b>	<b>3.4600e-003</b>	<b>3,874.8787</b>

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

**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	74.7115	5.5917	68.9995	0.0725		4.0234	4.0234		4.0234	4.0234	334.1951	6,265.3790	6,599.5741	0.1933	0.1430	6,647.0117
Energy	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059

Existing Baseline Year - Yolo County, Winter

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

Mobile	255.7538	421.9149	2,220.3720	3.4024	300.4813	5.3537	305.8350	80.3097	5.0632	85.3729		347,445.6478	347,445.6478	36.0094	24.7090	355,709.1524
<b>Total</b>	<b>332.6755</b>	<b>447.4483</b>	<b>2,305.1438</b>	<b>3.5954</b>	<b>300.4813</b>	<b>10.9041</b>	<b>311.3854</b>	<b>80.3097</b>	<b>10.6136</b>	<b>90.9233</b>	<b>334.1951</b>	<b>377,821.9535</b>	<b>378,156.1486</b>	<b>36.6649</b>	<b>25.2940</b>	<b>386,610.3700</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	74.7115	5.5917	68.9995	0.0725		4.0234	4.0234		4.0234	4.0234	334.1951	6,265.3790	6,599.5741	0.1933	0.1430	6,647.0117
Energy	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059
Mobile	255.7538	421.9149	2,220.3720	3.4024	300.4813	5.3537	305.8350	80.3097	5.0632	85.3729		347,445.6478	347,445.6478	36.0094	24.7090	355,709.1524
<b>Total</b>	<b>332.6755</b>	<b>447.4483</b>	<b>2,305.1438</b>	<b>3.5954</b>	<b>300.4813</b>	<b>10.9041</b>	<b>311.3854</b>	<b>80.3097</b>	<b>10.6136</b>	<b>90.9233</b>	<b>334.1951</b>	<b>377,821.9535</b>	<b>378,156.1486</b>	<b>36.6649</b>	<b>25.2940</b>	<b>386,610.3700</b>



Existing Baseline Year - Yolo 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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/7/2021	7/13/2022	5	200	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 40****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Existing Baseline Year - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0487	0.0368	0.3775	9.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		99.4311	99.4311	3.9600e-003	3.4600e-003	100.5613
<b>Total</b>	<b>0.0487</b>	<b>0.0368</b>	<b>0.3775</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>99.4311</b>	<b>99.4311</b>	<b>3.9600e-003</b>	<b>3.4600e-003</b>	<b>100.5613</b>

Existing Baseline Year - Yolo County, Winter

**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	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0487	0.0368	0.3775	9.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		99.4311	99.4311	3.9600e-003	3.4600e-003	100.5613
<b>Total</b>	<b>0.0487</b>	<b>0.0368</b>	<b>0.3775</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>99.4311</b>	<b>99.4311</b>	<b>3.9600e-003</b>	<b>3.4600e-003</b>	<b>100.5613</b>

Existing Baseline Year - Yolo County, Winter

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

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>		<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0451	0.0324	0.3478	9.5000e-004	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		96.7677	96.7677	3.5800e-003	3.1900e-003	97.8071
<b>Total</b>	<b>0.0451</b>	<b>0.0324</b>	<b>0.3478</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>96.7677</b>	<b>96.7677</b>	<b>3.5800e-003</b>	<b>3.1900e-003</b>	<b>97.8071</b>

Existing Baseline Year - Yolo County, Winter

**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	lb/day										lb/day					
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>1.2427</b>	<b>1.2427</b>		<b>1.1553</b>	<b>1.1553</b>	<b>0.0000</b>	<b>3,746.7812</b>	<b>3,746.7812</b>	<b>1.0524</b>		<b>3,773.0920</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	0.0451	0.0324	0.3478	9.5000e-004	0.1141	5.8000e-004	0.1147	0.0303	5.3000e-004	0.0308		96.7677	96.7677	3.5800e-003	3.1900e-003	97.8071
<b>Total</b>	<b>0.0451</b>	<b>0.0324</b>	<b>0.3478</b>	<b>9.5000e-004</b>	<b>0.1141</b>	<b>5.8000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.3000e-004</b>	<b>0.0308</b>		<b>96.7677</b>	<b>96.7677</b>	<b>3.5800e-003</b>	<b>3.1900e-003</b>	<b>97.8071</b>

**4.0 Operational Detail - Mobile**

Existing Baseline Year - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	255.7538	421.9149	2,220.3720	3.4024	300.4813	5.3537	305.8350	80.3097	5.0632	85.3729		347,445.6478	347,445.6478	36.0094	24.7090	355,709.1524
Unmitigated	255.7538	421.9149	2,220.3720	3.4024	300.4813	5.3537	305.8350	80.3097	5.0632	85.3729		347,445.6478	347,445.6478	36.0094	24.7090	355,709.1524

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	9,471.98	9,471.98	9471.98	15,760,242	15,760,242
City Park	9,472.55	9,472.55	9472.55	15,761,190	15,761,190
General Light Industry	9,471.12	9,471.12	9471.12	15,758,819	15,758,819
General Office Building	9,470.62	9,470.62	9470.62	15,757,979	15,757,979
Government Office Building	9,472.54	9,472.54	9472.54	15,761,167	15,761,167
High Turnover (Sit Down Restaurant)	9,474.25	9,474.25	9474.25	15,764,019	15,764,019
Hotel	9,471.70	9,471.70	9471.70	15,759,776	15,759,776
Other Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	9,473.00	9,473.00	9473.00	15,761,939	15,761,939
Strip Mall	9,472.49	9,472.49	9472.49	15,761,082	15,761,082
<b>Total</b>	<b>85,250.25</b>	<b>85,250.25</b>	<b>85,250.25</b>	<b>141,846,213</b>	<b>141,846,213</b>

**4.3 Trip Type Information**

Existing Baseline Year - Yolo County, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.57	4.57	4.57	46.00	13.00	41.00	100	0	0
City Park	4.57	4.57	4.57	33.00	48.00	19.00	100	0	0
General Light Industry	4.57	4.57	4.57	59.00	28.00	13.00	100	0	0
General Office Building	4.57	4.57	4.57	33.00	48.00	19.00	100	0	0
Government Office Building	4.57	4.57	4.57	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down	4.57	4.57	4.57	8.50	72.50	19.00	100	0	0
Hotel	4.57	4.57	4.57	19.40	61.60	19.00	100	0	0
Other Asphalt Surfaces	10.00	5.00	7.00	0.00	0.00	0.00	0	0	0
Single Family Housing	4.57	4.57	4.57	46.00	13.00	41.00	100	0	0
Strip Mall	4.57	4.57	4.57	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
City Park	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
General Light Industry	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
General Office Building	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Government Office Building	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
High Turnover (Sit Down Restaurant)	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Hotel	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Other Asphalt Surfaces	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Single Family Housing	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803
Strip Mall	0.471787	0.059883	0.182168	0.162722	0.042506	0.007875	0.023098	0.012090	0.000754	0.000757	0.031839	0.000718	0.003803

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

Existing Baseline Year - Yolo 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					
NaturalGas Mitigated	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059
NaturalGas Unmitigated	2.2102	19.9417	15.7723	0.1206		1.5270	1.5270		1.5270	1.5270		24,110.9267	24,110.9267	0.4621	0.4420	24,254.2059



Existing Baseline Year - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16016.6	0.1727	1.4760	0.6281	9.4200e-003		0.1193	0.1193		0.1193	0.1193		1,884.3033	1,884.3033	0.0361	0.0346	1,895.5007
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1462.3	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0357	172.0357	3.3000e-003	3.1500e-003	173.0580
General Office Building	28475	0.3071	2.7917	2.3450	0.0168		0.2122	0.2122		0.2122	0.2122		3,350.0012	3,350.0012	0.0642	0.0614	3,369.9086
Government Office Building	2340.08	0.0252	0.2294	0.1927	1.3800e-003		0.0174	0.0174		0.0174	0.0174		275.3038	275.3038	5.2800e-003	5.0500e-003	276.9398
High Turnover (Sit Down Restaurant)	108700	1.1723	10.6569	8.9518	0.0639		0.8099	0.8099		0.8099	0.8099		12,788.2936	12,788.2936	0.2451	0.2345	12,864.2880
Hotel	27206.1	0.2934	2.6673	2.2405	0.0160		0.2027	0.2027		0.2027	0.2027		3,200.7208	3,200.7208	0.0614	0.0587	3,219.7411
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9606.82	0.1036	0.8853	0.3767	5.6500e-003		0.0716	0.0716		0.0716	0.0716		1,130.2137	1,130.2137	0.0217	0.0207	1,136.9300
Strip Mall	11135.5	0.1201	1.0917	0.9170	6.5500e-003		0.0830	0.0830		0.0830	0.0830		1,310.0548	1,310.0548	0.0251	0.0240	1,317.8398
<b>Total</b>		<b>2.2102</b>	<b>19.9417</b>	<b>15.7723</b>	<b>0.1206</b>		<b>1.5270</b>	<b>1.5270</b>		<b>1.5270</b>	<b>1.5270</b>		<b>24,110.9267</b>	<b>24,110.9267</b>	<b>0.4621</b>	<b>0.4420</b>	<b>24,254.2059</b>

Existing Baseline Year - Yolo 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 Low Rise	16.0166	0.1727	1.4760	0.6281	9.4200e-003		0.1193	0.1193		0.1193	0.1193		1,884.3033	1,884.3033	0.0361	0.0346	1,895.5007
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Light Industry	1.4623	0.0158	0.1434	0.1204	8.6000e-004		0.0109	0.0109		0.0109	0.0109		172.0357	172.0357	3.3000e-003	3.1500e-003	173.0580
General Office Building	28.475	0.3071	2.7917	2.3450	0.0168		0.2122	0.2122		0.2122	0.2122		3,350.0012	3,350.0012	0.0642	0.0614	3,369.9086
Government Office Building	2.34008	0.0252	0.2294	0.1927	1.3800e-003		0.0174	0.0174		0.0174	0.0174		275.3038	275.3038	5.2800e-003	5.0500e-003	276.9398
High Turnover (Sit Down Restaurant)	108.7	1.1723	10.6569	8.9518	0.0639		0.8099	0.8099		0.8099	0.8099		12,788.2936	12,788.2936	0.2451	0.2345	12,864.2880
Hotel	27.2061	0.2934	2.6673	2.2405	0.0160		0.2027	0.2027		0.2027	0.2027		3,200.7208	3,200.7208	0.0614	0.0587	3,219.7411
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	9.60682	0.1036	0.8853	0.3767	5.6500e-003		0.0716	0.0716		0.0716	0.0716		1,130.2137	1,130.2137	0.0217	0.0207	1,136.9300
Strip Mall	11.1355	0.1201	1.0917	0.9170	6.5500e-003		0.0830	0.0830		0.0830	0.0830		1,310.0548	1,310.0548	0.0251	0.0240	1,317.8398
<b>Total</b>		<b>2.2102</b>	<b>19.9417</b>	<b>15.7723</b>	<b>0.1206</b>		<b>1.5270</b>	<b>1.5270</b>		<b>1.5270</b>	<b>1.5270</b>		<b>24,110.9267</b>	<b>24,110.9267</b>	<b>0.4621</b>	<b>0.4420</b>	<b>24,254.2059</b>

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

Existing Baseline Year - Yolo 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					
Mitigated	74.7115	5.5917	68.9995	0.0725		4.0234	4.0234		4.0234	4.0234	334.1951	6,265.3790	6,599.5741	0.1933	0.1430	6,647.0117
Unmitigated	74.7115	5.5917	68.9995	0.0725		4.0234	4.0234		4.0234	4.0234	334.1951	6,265.3790	6,599.5741	0.1933	0.1430	6,647.0117

**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	3.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.6007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.0764	5.1043	26.8920	0.0703		3.7930	3.7930		3.7930	3.7930	334.1951	6,189.8824	6,524.0775	0.1186	0.1430	6,569.6482
Landscaping	1.2989	0.4874	42.1075	2.2200e-003		0.2304	0.2304		0.2304	0.2304		75.4966	75.4966	0.0747		77.3635
<b>Total</b>	<b>74.7115</b>	<b>5.5917</b>	<b>68.9995</b>	<b>0.0725</b>		<b>4.0234</b>	<b>4.0234</b>		<b>4.0234</b>	<b>4.0234</b>	<b>334.1951</b>	<b>6,265.3790</b>	<b>6,599.5741</b>	<b>0.1933</b>	<b>0.1430</b>	<b>6,647.0117</b>

Existing Baseline Year - Yolo County, Winter

**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	lb/day										lb/day					
Architectural Coating	3.7355					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	46.6007					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	23.0764	5.1043	26.8920	0.0703		3.7930	3.7930		3.7930	3.7930	334.1951	6,189.8824	6,524.0775	0.1186	0.1430	6,569.6482
Landscaping	1.2989	0.4874	42.1075	2.2200e-003		0.2304	0.2304		0.2304	0.2304		75.4966	75.4966	0.0747		77.3635
<b>Total</b>	<b>74.7115</b>	<b>5.5917</b>	<b>68.9995</b>	<b>0.0725</b>		<b>4.0234</b>	<b>4.0234</b>		<b>4.0234</b>	<b>4.0234</b>	<b>334.1951</b>	<b>6,265.3790</b>	<b>6,599.5741</b>	<b>0.1933</b>	<b>0.1430</b>	<b>6,647.0117</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**

Existing Baseline Year - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Proposed New Year 2040 - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****Proposed New Year 2040****Yolo County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	480.00	1000sqft	5.70	480,000.00	0
Government Office Building	60.00	1000sqft	5.70	60,000.00	0
High Turnover (Sit Down Restaurant)	30.30	1000sqft	5.70	30,295.00	0
Apartments Low Rise	1,000.00	Dwelling Unit	5.70	1,000,000.00	2860
Strip Mall	30.18	1000sqft	5.70	30,175.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions in AQ/GHG appendix of the DEIR.

Construction Phase -

Vehicle Trips - See assumptions file in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions file in the AQ/GHG appendix of the DEIR.

Water And Wastewater - See assumption in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
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## Proposed New Year 2040 - Yolo County, Annual

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

tblFireplaces	NumberNoFireplace	100.00	450.00
tblFireplaces	NumberWood	350.00	0.00
tblLandUse	LandUseSquareFeet	30,300.00	30,295.00
tblLandUse	LandUseSquareFeet	30,180.00	30,175.00
tblLandUse	LotAcreage	11.02	5.70
tblLandUse	LotAcreage	1.38	5.70
tblLandUse	LotAcreage	0.70	5.70
tblLandUse	LotAcreage	62.50	5.70
tblLandUse	LotAcreage	0.69	5.70
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.73

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

tblVehicleTrips	HS_TL	5.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	8.08
tblVehicleTrips	ST_TR	2.21	11.38
tblVehicleTrips	ST_TR	0.00	110.73
tblVehicleTrips	ST_TR	122.40	30.02
tblVehicleTrips	ST_TR	42.04	36.57
tblVehicleTrips	SU_TR	6.28	8.08
tblVehicleTrips	SU_TR	0.70	11.38
tblVehicleTrips	SU_TR	0.00	110.73
tblVehicleTrips	SU_TR	142.64	30.02
tblVehicleTrips	SU_TR	20.43	36.57
tblVehicleTrips	WD_TR	7.32	8.08
tblVehicleTrips	WD_TR	9.74	11.38
tblVehicleTrips	WD_TR	22.59	110.73
tblVehicleTrips	WD_TR	112.18	30.02
tblVehicleTrips	WD_TR	44.32	36.57
tblWater	AerobicPercent	87.46	100.00



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

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	65,154,025.62	3,764,224.75
tblWater	IndoorWaterUseRate	85,312,199.04	2,544,539.59
tblWater	IndoorWaterUseRate	11,919,581.15	3,095,029.24
tblWater	IndoorWaterUseRate	9,197,071.49	423,632.13
tblWater	IndoorWaterUseRate	2,235,508.70	514,045.83
tblWater	OutdoorWaterUseRate	41,075,363.98	836,494.39
tblWater	OutdoorWaterUseRate	52,288,121.99	565,453.24
tblWater	OutdoorWaterUseRate	7,305,549.74	687,784.28
tblWater	OutdoorWaterUseRate	587,047.12	94,140.47
tblWater	OutdoorWaterUseRate	1,370,150.49	114,232.41
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	50.00	0.00
tblWoodstoves	NumberNoncatalytic	50.00	0.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0482	0.4721	0.3290	6.0000e-004	1.6600e-003	0.0233	0.0249	4.4000e-004	0.0216	0.0221	0.0000	52.3852	52.3852	0.0144	4.0000e-005	52.7582
Maximum	0.0482	0.4721	0.3290	6.0000e-004	1.6600e-003	0.0233	0.0249	4.4000e-004	0.0216	0.0221	0.0000	52.3852	52.3852	0.0144	4.0000e-005	52.7582

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0482	0.4721	0.3290	6.0000e-004	1.6600e-003	0.0233	0.0249	4.4000e-004	0.0216	0.0221	0.0000	52.3851	52.3851	0.0144	4.0000e-005	52.7581
Maximum	0.0482	0.4721	0.3290	6.0000e-004	1.6600e-003	0.0233	0.0249	4.4000e-004	0.0216	0.0221	0.0000	52.3851	52.3851	0.0144	4.0000e-005	52.7581

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

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

Highest

**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	7.0810	0.4594	7.5572	2.7800e-003		0.0714	0.0714		0.0714	0.0714	0.0000	445.3469	445.3469	0.0199	7.9400e-003	448.2106
Energy	0.1300	1.1476	0.7414	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	2,188.8778	2,188.8778	0.1831	0.0428	2,206.2045
Mobile	5.4608	8.9296	51.4251	0.1102	14.2968	0.0637	14.3605	3.8352	0.0599	3.8951	0.0000	10,264.1928	10,264.1928	0.7461	0.6764	10,484.4055
Waste						0.0000	0.0000		0.0000	0.0000	274.9431	0.0000	274.9431	16.2487	0.0000	681.1600
Water						0.0000	0.0000		0.0000	0.0000	3.6588	5.4572	9.1161	0.0136	8.0700e-003	11.8606
<b>Total</b>	<b>12.6719</b>	<b>10.5366</b>	<b>59.7236</b>	<b>0.1201</b>	<b>14.2968</b>	<b>0.2250</b>	<b>14.5218</b>	<b>3.8352</b>	<b>0.2212</b>	<b>4.0564</b>	<b>278.6020</b>	<b>12,903.8748</b>	<b>13,182.4767</b>	<b>17.2112</b>	<b>0.7352</b>	<b>13,831.8410</b>

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

**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	7.0810	0.4594	7.5572	2.7800e-003		0.0714	0.0714		0.0714	0.0714	0.0000	445.3469	445.3469	0.0199	7.9400e-003	448.2106
Energy	0.1300	1.1476	0.7414	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	2,188.8778	2,188.8778	0.1831	0.0428	2,206.2045
Mobile	5.4608	8.9296	51.4251	0.1102	14.2968	0.0637	14.3605	3.8352	0.0599	3.8951	0.0000	10,264.1928	10,264.1928	0.7461	0.6764	10,484.4055
Waste						0.0000	0.0000		0.0000	0.0000	274.9431	0.0000	274.9431	16.2487	0.0000	681.1600
Water						0.0000	0.0000		0.0000	0.0000	3.6588	5.4572	9.1161	0.0136	8.0700e-003	11.8606
<b>Total</b>	<b>12.6719</b>	<b>10.5366</b>	<b>59.7236</b>	<b>0.1201</b>	<b>14.2968</b>	<b>0.2250</b>	<b>14.5218</b>	<b>3.8352</b>	<b>0.2212</b>	<b>4.0564</b>	<b>278.6020</b>	<b>12,903.8748</b>	<b>13,182.4767</b>	<b>17.2112</b>	<b>0.7352</b>	<b>13,831.8410</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/8/2021	11/18/2021	5	30	

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

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>		<b>0.0233</b>	<b>0.0233</b>		<b>0.0216</b>	<b>0.0216</b>	<b>0.0000</b>	<b>51.0012</b>	<b>51.0012</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3601</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	7.0000e-004	4.9000e-004	5.5200e-003	2.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3840	1.3840	5.0000e-005	4.0000e-005	1.3981
<b>Total</b>	<b>7.0000e-004</b>	<b>4.9000e-004</b>	<b>5.5200e-003</b>	<b>2.0000e-005</b>	<b>1.6600e-003</b>	<b>1.0000e-005</b>	<b>1.6700e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3840</b>	<b>1.3840</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3981</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>		<b>0.0233</b>	<b>0.0233</b>		<b>0.0216</b>	<b>0.0216</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</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	7.0000e-004	4.9000e-004	5.5200e-003	2.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3840	1.3840	5.0000e-005	4.0000e-005	1.3981
<b>Total</b>	<b>7.0000e-004</b>	<b>4.9000e-004</b>	<b>5.5200e-003</b>	<b>2.0000e-005</b>	<b>1.6600e-003</b>	<b>1.0000e-005</b>	<b>1.6700e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3840</b>	<b>1.3840</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3981</b>

**4.0 Operational Detail - Mobile**

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

## 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.4608	8.9296	51.4251	0.1102	14.2968	0.0637	14.3605	3.8352	0.0599	3.8951	0.0000	10,264.1928	10,264.1928	0.7461	0.6764	10,484.4055
Unmitigated	5.4608	8.9296	51.4251	0.1102	14.2968	0.0637	14.3605	3.8352	0.0599	3.8951	0.0000	10,264.1928	10,264.1928	0.7461	0.6764	10,484.4055

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	8,080.00	8,080.00	8080.00	13,913,262	13,913,262
General Office Building	5,462.40	5,462.40	5462.40	9,405,916	9,405,916
Government Office Building	6,643.80	6,643.80	6643.80	11,440,214	11,440,214
High Turnover (Sit Down Restaurant)	909.61	909.61	909.61	1,566,286	1,566,286
Strip Mall	1,103.68	1,103.68	1103.68	1,900,473	1,900,473
Total	22,199.49	22,199.49	22,199.49	38,226,152	38,226,152

## 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
General Office Building	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0



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Government Office Building	4.73	4.73	4.73	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down)	4.73	4.73	4.73	8.50	72.50	19.00	100	0	0
Strip Mall	4.73	4.73	4.73	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

**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	902.2628	902.2628	0.1584	0.0192	911.9438
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	902.2628	902.2628	0.1584	0.0192	911.9438
NaturalGas Mitigated	0.1300	1.1476	0.7414	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,286.6150	1,286.6150	0.0247	0.0236	1,294.2607
NaturalGas Unmitigated	0.1300	1.1476	0.7414	7.0900e-003		0.0898	0.0898		0.0898	0.0898	0.0000	1,286.6150	1,286.6150	0.0247	0.0236	1,294.2607

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

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.16564e+007	0.0629	0.5371	0.2286	3.4300e-003		0.0434	0.0434		0.0434	0.0434	0.0000	622.0283	622.0283	0.0119	0.0114	625.7247
General Office Building	7.824e+006	0.0422	0.3835	0.3222	2.3000e-003		0.0292	0.0292		0.0292	0.0292	0.0000	417.5184	417.5184	8.0000e-003	7.6500e-003	419.9995
Government Office Building	978000	5.2700e-003	0.0479	0.0403	2.9000e-004		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	52.1898	52.1898	1.0000e-003	9.6000e-004	52.4999
High Turnover (Sit Down Restaurant)	3.30246e+006	0.0178	0.1619	0.1360	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	176.2317	176.2317	3.3800e-003	3.2300e-003	177.2790
Strip Mall	349427	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	18.6467	18.6467	3.6000e-004	3.4000e-004	18.7575
<b>Total</b>		<b>0.1300</b>	<b>1.1476</b>	<b>0.7414</b>	<b>7.0900e-003</b>		<b>0.0898</b>	<b>0.0898</b>		<b>0.0898</b>	<b>0.0898</b>	<b>0.0000</b>	<b>1,286.6150</b>	<b>1,286.6150</b>	<b>0.0247</b>	<b>0.0236</b>	<b>1,294.2607</b>

## Proposed New Year 2040 - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Apartments Low Rise	1.16564e+007	0.0629	0.5371	0.2286	3.4300e-003		0.0434	0.0434		0.0434	0.0434	0.0000	622.0283	622.0283	0.0119	0.0114	625.7247
General Office Building	7.824e+006	0.0422	0.3835	0.3222	2.3000e-003		0.0292	0.0292		0.0292	0.0292	0.0000	417.5184	417.5184	8.0000e-003	7.6500e-003	419.9995
Government Office Building	978000	5.2700e-003	0.0479	0.0403	2.9000e-004		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	52.1898	52.1898	1.0000e-003	9.6000e-004	52.4999
High Turnover (Sit Down Restaurant)	3.30246e+006	0.0178	0.1619	0.1360	9.7000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	176.2317	176.2317	3.3800e-003	3.2300e-003	177.2790
Strip Mall	349427	1.8800e-003	0.0171	0.0144	1.0000e-004		1.3000e-003	1.3000e-003		1.3000e-003	1.3000e-003	0.0000	18.6467	18.6467	3.6000e-004	3.4000e-004	18.7575
<b>Total</b>		<b>0.1300</b>	<b>1.1476</b>	<b>0.7414</b>	<b>7.0900e-003</b>		<b>0.0898</b>	<b>0.0898</b>		<b>0.0898</b>	<b>0.0898</b>	<b>0.0000</b>	<b>1,286.6150</b>	<b>1,286.6150</b>	<b>0.0247</b>	<b>0.0236</b>	<b>1,294.2607</b>

## Proposed New Year 2040 - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Low Rise	4.09199e+006		348.9144	0.0613	7.4200e-003	352.6581
General Office Building	4.6368e+006		395.3691	0.0694	8.4100e-003	399.6113
Government Office Building	579600		49.4211	8.6800e-003	1.0500e-003	49.9514
High Turnover (Sit Down Restaurant)	930057		79.3037	0.0139	1.6900e-003	80.1546
Strip Mall	343090		29.2545	5.1400e-003	6.2000e-004	29.5684
<b>Total</b>			<b>902.2628</b>	<b>0.1584</b>	<b>0.0192</b>	<b>911.9438</b>

## Proposed New Year 2040 - Yolo County, Annual

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

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Low Rise	4.09199e+006		348.9144	0.0613	7.4200e-003	352.6581
General Office Building	4.6368e+006		395.3691	0.0694	8.4100e-003	399.6113
Government Office Building	579600		49.4211	8.6800e-003	1.0500e-003	49.9514
High Turnover (Sit Down Restaurant)	930057		79.3037	0.0139	1.6900e-003	80.1546
Strip Mall	343090		29.2545	5.1400e-003	6.2000e-004	29.5684
<b>Total</b>			<b>902.2628</b>	<b>0.1584</b>	<b>0.0192</b>	<b>911.9438</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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Proposed New Year 2040 - Yolo County, Annual

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

Category	tons/yr										MT/yr					
Mitigated	7.0810	0.4594	7.5572	2.7800e-003		0.0714	0.0714		0.0714	0.0714	0.0000	445.3469	445.3469	0.0199	7.9400e-003	448.2106
Unmitigated	7.0810	0.4594	7.5572	2.7800e-003		0.0714	0.0714		0.0714	0.0714	0.0000	445.3469	445.3469	0.0199	7.9400e-003	448.2106

**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	0.5650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.2506					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0438	0.3741	0.1592	2.3900e-003		0.0302	0.0302		0.0302	0.0302	0.0000	433.2074	433.2074	8.3000e-003	7.9400e-003	435.7817
Landscaping	0.2216	0.0854	7.3980	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1395	12.1395	0.0116	0.0000	12.4288
<b>Total</b>	<b>7.0811</b>	<b>0.4594</b>	<b>7.5572</b>	<b>2.7800e-003</b>		<b>0.0714</b>	<b>0.0714</b>		<b>0.0714</b>	<b>0.0714</b>	<b>0.0000</b>	<b>445.3469</b>	<b>445.3469</b>	<b>0.0199</b>	<b>7.9400e-003</b>	<b>448.2106</b>

Proposed New Year 2040 - Yolo County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.5650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.2506					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0438	0.3741	0.1592	2.3900e-003		0.0302	0.0302		0.0302	0.0302	0.0000	433.2074	433.2074	8.3000e-003	7.9400e-003	435.7817
Landscaping	0.2216	0.0854	7.3980	3.9000e-004		0.0412	0.0412		0.0412	0.0412	0.0000	12.1395	12.1395	0.0116	0.0000	12.4288
<b>Total</b>	<b>7.0811</b>	<b>0.4594</b>	<b>7.5572</b>	<b>2.7800e-003</b>		<b>0.0714</b>	<b>0.0714</b>		<b>0.0714</b>	<b>0.0714</b>	<b>0.0000</b>	<b>445.3469</b>	<b>445.3469</b>	<b>0.0199</b>	<b>7.9400e-003</b>	<b>448.2106</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e	
Category	tons/yr	MT/yr			
Mitigated	9.1161	0.0136	8.0700e-003	11.8606	



## Proposed New Year 2040 - Yolo County, Annual

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

Unmitigated		9.1161	0.0136	8.0700e-003	11.8606
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**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Low Rise	3.76422 / 0.836494		3.3182	4.9300e-003	2.9400e-003	4.3172
General Office Building	2.54454 / 0.565453		2.2430	3.3300e-003	1.9900e-003	2.9183
Government Office Building	3.09503 / 0.687784		2.7283	4.0600e-003	2.4200e-003	3.5497
High Turnover (Sit Down Restaurant)	0.423632 / 0.0941405		0.3734	5.6000e-004	3.3000e-004	0.4859
Strip Mall	0.514046 / 0.114232		0.4531	6.7000e-004	4.0000e-004	0.5896
<b>Total</b>			<b>9.1160</b>	<b>0.0136</b>	<b>8.0800e-003</b>	<b>11.8606</b>

Proposed New Year 2040 - Yolo County, Annual

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

Proposed New Year 2040 - Yolo County, Annual

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

**Mitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Low Rise	3.76422 / 0.836494		3.3182	4.9300e-003	2.9400e-003	4.3172
General Office Building	2.54454 / 0.565453		2.2430	3.3300e-003	1.9900e-003	2.9183
Government Office Building	3.09503 / 0.687784		2.7283	4.0600e-003	2.4200e-003	3.5497
High Turnover (Sit Down Restaurant)	0.423632 / 0.0941405		0.3734	5.6000e-004	3.3000e-004	0.4859
Strip Mall	0.514046 / 0.114232		0.4531	6.7000e-004	4.0000e-004	0.5896
<b>Total</b>			<b>9.1160</b>	<b>0.0136</b>	<b>8.0800e-003</b>	<b>11.8606</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e

Proposed New Year 2040 - Yolo County, Annual

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

	tons/yr	MT/yr			
Mitigated		274.9431	16.2487	0.0000	681.1600
Unmitigated		274.9431	16.2487	0.0000	681.1600

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Low Rise	460		93.3758	5.5184	0.0000	231.3347
General Office Building	446.4		90.6152	5.3552	0.0000	224.4952
Government Office Building	55.8		11.3269	0.6694	0.0000	28.0619
High Turnover (Sit Down Restaurant)	360.57		73.1925	4.3256	0.0000	181.3312
Strip Mall	31.69		6.4328	0.3802	0.0000	15.9370
<b>Total</b>			<b>274.9431</b>	<b>16.2487</b>	<b>0.0000</b>	<b>681.1600</b>

## Proposed New Year 2040 - Yolo County, Annual

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

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Low Rise	460		93.3758	5.5184	0.0000	231.3347
General Office Building	446.4		90.6152	5.3552	0.0000	224.4952
Government Office Building	55.8		11.3269	0.6694	0.0000	28.0619
High Turnover (Sit Down Restaurant)	360.57		73.1925	4.3256	0.0000	181.3312
Strip Mall	31.69		6.4328	0.3802	0.0000	15.9370
<b>Total</b>			<b>274.9431</b>	<b>16.2487</b>	<b>0.0000</b>	<b>681.1600</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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Proposed New Year 2040 - Yolo County, Annual

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

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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## Proposed New Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****Proposed New Year 2040****Yolo County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	480.00	1000sqft	5.70	480,000.00	0
Government Office Building	60.00	1000sqft	5.70	60,000.00	0
High Turnover (Sit Down Restaurant)	30.30	1000sqft	5.70	30,295.00	0
Apartments Low Rise	1,000.00	Dwelling Unit	5.70	1,000,000.00	2860
Strip Mall	30.18	1000sqft	5.70	30,175.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions in AQ/GHG appendix of the DEIR.

Construction Phase -

Vehicle Trips - See assumptions file in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions file in the AQ/GHG appendix of the DEIR.

Water And Wastewater - See assumption in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
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## Proposed New Year 2040 - Yolo County, Summer

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

tblFireplaces	NumberNoFireplace	100.00	450.00
tblFireplaces	NumberWood	350.00	0.00
tblLandUse	LandUseSquareFeet	30,300.00	30,295.00
tblLandUse	LandUseSquareFeet	30,180.00	30,175.00
tblLandUse	LotAcreage	11.02	5.70
tblLandUse	LotAcreage	1.38	5.70
tblLandUse	LotAcreage	0.70	5.70
tblLandUse	LotAcreage	62.50	5.70
tblLandUse	LotAcreage	0.69	5.70
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.73



## Proposed New Year 2040 - Yolo County, Summer

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

tblVehicleTrips	HS_TL	5.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	8.08
tblVehicleTrips	ST_TR	2.21	11.38
tblVehicleTrips	ST_TR	0.00	110.73
tblVehicleTrips	ST_TR	122.40	30.02
tblVehicleTrips	ST_TR	42.04	36.57
tblVehicleTrips	SU_TR	6.28	8.08
tblVehicleTrips	SU_TR	0.70	11.38
tblVehicleTrips	SU_TR	0.00	110.73
tblVehicleTrips	SU_TR	142.64	30.02
tblVehicleTrips	SU_TR	20.43	36.57
tblVehicleTrips	WD_TR	7.32	8.08
tblVehicleTrips	WD_TR	9.74	11.38
tblVehicleTrips	WD_TR	22.59	110.73
tblVehicleTrips	WD_TR	112.18	30.02
tblVehicleTrips	WD_TR	44.32	36.57
tblWater	AerobicPercent	87.46	100.00

Proposed New Year 2040 - Yolo County, Summer

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

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	65,154,025.62	3,764,224.75
tblWater	IndoorWaterUseRate	85,312,199.04	2,544,539.59
tblWater	IndoorWaterUseRate	11,919,581.15	3,095,029.24
tblWater	IndoorWaterUseRate	9,197,071.49	423,632.13
tblWater	IndoorWaterUseRate	2,235,508.70	514,045.83
tblWater	OutdoorWaterUseRate	41,075,363.98	836,494.39
tblWater	OutdoorWaterUseRate	52,288,121.99	565,453.24
tblWater	OutdoorWaterUseRate	7,305,549.74	687,784.28
tblWater	OutdoorWaterUseRate	587,047.12	94,140.47
tblWater	OutdoorWaterUseRate	1,370,150.49	114,232.41
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	50.00	0.00
tblWoodstoves	NumberNoncatalytic	50.00	0.00

**2.0 Emissions Summary**



## Proposed New Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	40.8760	10.0722	86.0821	0.0626		1.1954	1.1954		1.1954	1.1954	0.0000	11,795.7425	11,795.7425	0.3650	0.2135	11,868.4986
Energy	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
Mobile	38.2626	45.7183	290.5906	0.6436	81.1213	0.3505	81.4718	21.7027	0.3295	22.0322		66,024.3234	66,024.3234	4.3264	3.9729	67,316.4140
<b>Total</b>	<b>79.8510</b>	<b>62.0786</b>	<b>380.7350</b>	<b>0.7450</b>	<b>81.1213</b>	<b>2.0381</b>	<b>83.1593</b>	<b>21.7027</b>	<b>2.0170</b>	<b>23.7197</b>	<b>0.0000</b>	<b>85,591.3003</b>	<b>85,591.3003</b>	<b>4.8403</b>	<b>4.3289</b>	<b>87,002.3275</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	40.8760	10.0722	86.0821	0.0626		1.1954	1.1954		1.1954	1.1954	0.0000	11,795.7425	11,795.7425	0.3650	0.2135	11,868.4986
Energy	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
Mobile	38.2626	45.7183	290.5906	0.6436	81.1213	0.3505	81.4718	21.7027	0.3295	22.0322		66,024.3234	66,024.3234	4.3264	3.9729	67,316.4140
<b>Total</b>	<b>79.8510</b>	<b>62.0786</b>	<b>380.7350</b>	<b>0.7450</b>	<b>81.1213</b>	<b>2.0381</b>	<b>83.1593</b>	<b>21.7027</b>	<b>2.0170</b>	<b>23.7197</b>	<b>0.0000</b>	<b>85,591.3003</b>	<b>85,591.3003</b>	<b>4.8403</b>	<b>4.3289</b>	<b>87,002.3275</b>

## Proposed New Year 2040 - Yolo County, Summer

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

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/8/2021	11/18/2021	5	30	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Proposed New Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****3.2 Demolition - 2021****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0547	0.0297	0.4254	1.1000e-003	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		111.0742	111.0742	3.4100e-003	3.0000e-003	112.0528
<b>Total</b>	<b>0.0547</b>	<b>0.0297</b>	<b>0.4254</b>	<b>1.1000e-003</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>111.0742</b>	<b>111.0742</b>	<b>3.4100e-003</b>	<b>3.0000e-003</b>	<b>112.0528</b>

## Proposed New Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0547	0.0297	0.4254	1.1000e-003	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		111.0742	111.0742	3.4100e-003	3.0000e-003	112.0528
<b>Total</b>	<b>0.0547</b>	<b>0.0297</b>	<b>0.4254</b>	<b>1.1000e-003</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>111.0742</b>	<b>111.0742</b>	<b>3.4100e-003</b>	<b>3.0000e-003</b>	<b>112.0528</b>

**4.0 Operational Detail - Mobile**

Proposed New Year 2040 - Yolo County, Summer

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	38.2626	45.7183	290.5906	0.6436	81.1213	0.3505	81.4718	21.7027	0.3295	22.0322		66,024.3234	66,024.3234	4.3264	3.9729	67,316.4140
Unmitigated	38.2626	45.7183	290.5906	0.6436	81.1213	0.3505	81.4718	21.7027	0.3295	22.0322		66,024.3234	66,024.3234	4.3264	3.9729	67,316.4140

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	8,080.00	8,080.00	8080.00	13,913,262	13,913,262
General Office Building	5,462.40	5,462.40	5462.40	9,405,916	9,405,916
Government Office Building	6,643.80	6,643.80	6643.80	11,440,214	11,440,214
High Turnover (Sit Down Restaurant)	909.61	909.61	909.61	1,566,286	1,566,286
Strip Mall	1,103.68	1,103.68	1103.68	1,900,473	1,900,473
<b>Total</b>	<b>22,199.49</b>	<b>22,199.49</b>	<b>22,199.49</b>	<b>38,226,152</b>	<b>38,226,152</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
General Office Building	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0



Proposed New Year 2040 - Yolo County, Summer

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

Government Office Building	4.73	4.73	4.73	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down)	4.73	4.73	4.73	8.50	72.50	19.00	100	0	0
Strip Mall	4.73	4.73	4.73	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
NaturalGas Unmitigated	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149

## Proposed New Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****5.2 Energy by Land Use - NaturalGas****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 Low Rise	31935.3	0.3444	2.9431	1.2524	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.0894	3,757.0894	0.0720	0.0689	3,779.4160
General Office Building	21435.6	0.2312	2.1015	1.7653	0.0126		0.1597	0.1597		0.1597	0.1597		2,521.8372	2,521.8372	0.0483	0.0462	2,536.8233
Government Office Building	2679.45	0.0289	0.2627	0.2207	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.2297	315.2297	6.0400e-003	5.7800e-003	317.1029
High Turnover (Sit Down Restaurant)	9047.83	0.0976	0.8870	0.7451	5.3200e-003		0.0674	0.0674		0.0674	0.0674		1,064.4506	1,064.4506	0.0204	0.0195	1,070.7761
Strip Mall	957.333	0.0103	0.0939	0.0788	5.6000e-004		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003		112.6274	112.6274	2.1600e-003	2.0600e-003	113.2967
<b>Total</b>		<b>0.7124</b>	<b>6.2882</b>	<b>4.0623</b>	<b>0.0389</b>		<b>0.4922</b>	<b>0.4922</b>		<b>0.4922</b>	<b>0.4922</b>		<b>7,771.2343</b>	<b>7,771.2343</b>	<b>0.1490</b>	<b>0.1425</b>	<b>7,817.4149</b>



Proposed New Year 2040 - Yolo County, Summer

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

Mitigated	40.8760	10.0722	86.0821	0.0626		1.1954	1.1954		1.1954	1.1954	0.0000	11,795.7425	11,795.7425	0.3650	0.2135	11,868.4986
Unmitigated	40.8760	10.0722	86.0821	0.0626		1.1954	1.1954		1.1954	1.1954	0.0000	11,795.7425	11,795.7425	0.3650	0.2135	11,868.4986

**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					
Architectorial Coating	3.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0677	9.1235	3.8824	0.0582		0.7377	0.7377		0.7377	0.7377	0.0000	11,647.0588	11,647.0588	0.2232	0.2135	11,716.2715
Landscaping	2.4623	0.9486	82.1998	4.3600e-003		0.4577	0.4577		0.4577	0.4577		148.6837	148.6837	0.1417		152.2271
<b>Total</b>	<b>40.8760</b>	<b>10.0722</b>	<b>86.0821</b>	<b>0.0626</b>		<b>1.1954</b>	<b>1.1954</b>		<b>1.1954</b>	<b>1.1954</b>	<b>0.0000</b>	<b>11,795.7425</b>	<b>11,795.7425</b>	<b>0.3650</b>	<b>0.2135</b>	<b>11,868.4986</b>

## Proposed New Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Architectural Coating	3.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0677	9.1235	3.8824	0.0582		0.7377	0.7377		0.7377	0.7377	0.0000	11,647.0588	11,647.0588	0.2232	0.2135	11,716.2715
Landscaping	2.4623	0.9486	82.1998	4.3600e-003		0.4577	0.4577		0.4577	0.4577		148.6837	148.6837	0.1417		152.2271
<b>Total</b>	<b>40.8760</b>	<b>10.0722</b>	<b>86.0821</b>	<b>0.0626</b>		<b>1.1954</b>	<b>1.1954</b>		<b>1.1954</b>	<b>1.1954</b>	<b>0.0000</b>	<b>11,795.7425</b>	<b>11,795.7425</b>	<b>0.3650</b>	<b>0.2135</b>	<b>11,868.4986</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**

## Proposed New Year 2040 - Yolo County, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Proposed New Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****Proposed New Year 2040****Yolo County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	480.00	1000sqft	5.70	480,000.00	0
Government Office Building	60.00	1000sqft	5.70	60,000.00	0
High Turnover (Sit Down Restaurant)	30.30	1000sqft	5.70	30,295.00	0
Apartments Low Rise	1,000.00	Dwelling Unit	5.70	1,000,000.00	2860
Strip Mall	30.18	1000sqft	5.70	30,175.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	54
<b>Climate Zone</b>	2			<b>Operational Year</b>	2040
<b>Utility Company</b>	Valley Clean Energy				
<b>CO2 Intensity (lb/MWhr)</b>	187.983	<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 - See assumptions in AQ/GHG appendix of the DEIR.

Construction Phase -

Vehicle Trips - See assumptions file in the AQ/GHG appendix of the DEIR.

Woodstoves - See assumptions file in the AQ/GHG appendix of the DEIR.

Water And Wastewater - See assumption in the AQ/GHG appendix of the DEIR.

Table Name	Column Name	Default Value	New Value
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## Proposed New Year 2040 - Yolo County, Winter

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

tblFireplaces	NumberNoFireplace	100.00	450.00
tblFireplaces	NumberWood	350.00	0.00
tblLandUse	LandUseSquareFeet	30,300.00	30,295.00
tblLandUse	LandUseSquareFeet	30,180.00	30,175.00
tblLandUse	LotAcreage	11.02	5.70
tblLandUse	LotAcreage	1.38	5.70
tblLandUse	LotAcreage	0.70	5.70
tblLandUse	LotAcreage	62.50	5.70
tblLandUse	LotAcreage	0.69	5.70
tblProjectCharacteristics	CO2IntensityFactor	958.98	187.983
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CC_TL	5.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CNW_TL	7.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	CW_TL	10.00	4.73
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	34.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	HO_TL	7.00	4.73



## Proposed New Year 2040 - Yolo County, Winter

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

tblVehicleTrips	HS_TL	5.00	4.73
tblVehicleTrips	HW_TL	10.00	4.73
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	16.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	50.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	PR_TP	45.00	100.00
tblVehicleTrips	ST_TR	8.14	8.08
tblVehicleTrips	ST_TR	2.21	11.38
tblVehicleTrips	ST_TR	0.00	110.73
tblVehicleTrips	ST_TR	122.40	30.02
tblVehicleTrips	ST_TR	42.04	36.57
tblVehicleTrips	SU_TR	6.28	8.08
tblVehicleTrips	SU_TR	0.70	11.38
tblVehicleTrips	SU_TR	0.00	110.73
tblVehicleTrips	SU_TR	142.64	30.02
tblVehicleTrips	SU_TR	20.43	36.57
tblVehicleTrips	WD_TR	7.32	8.08
tblVehicleTrips	WD_TR	9.74	11.38
tblVehicleTrips	WD_TR	22.59	110.73
tblVehicleTrips	WD_TR	112.18	30.02
tblVehicleTrips	WD_TR	44.32	36.57
tblWater	AerobicPercent	87.46	100.00

Proposed New Year 2040 - Yolo County, Winter

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

tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	65,154,025.62	3,764,224.75
tblWater	IndoorWaterUseRate	85,312,199.04	2,544,539.59
tblWater	IndoorWaterUseRate	11,919,581.15	3,095,029.24
tblWater	IndoorWaterUseRate	9,197,071.49	423,632.13
tblWater	IndoorWaterUseRate	2,235,508.70	514,045.83
tblWater	OutdoorWaterUseRate	41,075,363.98	836,494.39
tblWater	OutdoorWaterUseRate	52,288,121.99	565,453.24
tblWater	OutdoorWaterUseRate	7,305,549.74	687,784.28
tblWater	OutdoorWaterUseRate	587,047.12	94,140.47
tblWater	OutdoorWaterUseRate	1,370,150.49	114,232.41
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	50.00	0.00
tblWoodstoves	NumberNoncatalytic	50.00	0.00

**2.0 Emissions Summary**



## Proposed New Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	40.8760	10.0722	86.0821	0.0626		1.1954	1.1954		1.1954	1.1954	0.0000	11,795.7425	11,795.7425	0.3650	0.2135	11,868.4986
Energy	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
Mobile	28.2573	51.6940	310.0702	0.5966	81.1213	0.3509	81.4722	21.7027	0.3298	22.0325		61,273.7135	61,273.7135	4.8203	4.2559	62,662.4680
<b>Total</b>	<b>69.8457</b>	<b>68.0543</b>	<b>400.2146</b>	<b>0.6980</b>	<b>81.1213</b>	<b>2.0384</b>	<b>83.1597</b>	<b>21.7027</b>	<b>2.0174</b>	<b>23.7201</b>	<b>0.0000</b>	<b>80,840.6903</b>	<b>80,840.6903</b>	<b>5.3343</b>	<b>4.6119</b>	<b>82,348.3814</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	40.8760	10.0722	86.0821	0.0626		1.1954	1.1954		1.1954	1.1954	0.0000	11,795.7425	11,795.7425	0.3650	0.2135	11,868.4986
Energy	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
Mobile	28.2573	51.6940	310.0702	0.5966	81.1213	0.3509	81.4722	21.7027	0.3298	22.0325		61,273.7135	61,273.7135	4.8203	4.2559	62,662.4680
<b>Total</b>	<b>69.8457</b>	<b>68.0543</b>	<b>400.2146</b>	<b>0.6980</b>	<b>81.1213</b>	<b>2.0384</b>	<b>83.1597</b>	<b>21.7027</b>	<b>2.0174</b>	<b>23.7201</b>	<b>0.0000</b>	<b>80,840.6903</b>	<b>80,840.6903</b>	<b>5.3343</b>	<b>4.6119</b>	<b>82,348.3814</b>

## Proposed New Year 2040 - Yolo County, Winter

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

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

**3.0 Construction Detail****Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/8/2021	11/18/2021	5	30	

**Acres of Grading (Site Preparation Phase): 0****Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	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

**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	0.00	10.00	7.00	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

## Proposed New Year 2040 - Yolo County, Winter

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

## 3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0487	0.0368	0.3773	9.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		99.2043	99.2043	3.9600e-003	3.4600e-003	100.3345
<b>Total</b>	<b>0.0487</b>	<b>0.0368</b>	<b>0.3773</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>99.2043</b>	<b>99.2043</b>	<b>3.9600e-003</b>	<b>3.4600e-003</b>	<b>100.3345</b>

## Proposed New Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>		<b>1.5513</b>	<b>1.5513</b>		<b>1.4411</b>	<b>1.4411</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</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	0.0487	0.0368	0.3773	9.8000e-004	0.1141	6.1000e-004	0.1147	0.0303	5.6000e-004	0.0308		99.2043	99.2043	3.9600e-003	3.4600e-003	100.3345
<b>Total</b>	<b>0.0487</b>	<b>0.0368</b>	<b>0.3773</b>	<b>9.8000e-004</b>	<b>0.1141</b>	<b>6.1000e-004</b>	<b>0.1147</b>	<b>0.0303</b>	<b>5.6000e-004</b>	<b>0.0308</b>		<b>99.2043</b>	<b>99.2043</b>	<b>3.9600e-003</b>	<b>3.4600e-003</b>	<b>100.3345</b>

**4.0 Operational Detail - Mobile**

Proposed New Year 2040 - Yolo County, Winter

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.2573	51.6940	310.0702	0.5966	81.1213	0.3509	81.4722	21.7027	0.3298	22.0325		61,273.7135	61,273.7135	4.8203	4.2559	62,662.4680
Unmitigated	28.2573	51.6940	310.0702	0.5966	81.1213	0.3509	81.4722	21.7027	0.3298	22.0325		61,273.7135	61,273.7135	4.8203	4.2559	62,662.4680

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	8,080.00	8,080.00	8080.00	13,913,262	13,913,262
General Office Building	5,462.40	5,462.40	5462.40	9,405,916	9,405,916
Government Office Building	6,643.80	6,643.80	6643.80	11,440,214	11,440,214
High Turnover (Sit Down Restaurant)	909.61	909.61	909.61	1,566,286	1,566,286
Strip Mall	1,103.68	1,103.68	1103.68	1,900,473	1,900,473
<b>Total</b>	<b>22,199.49</b>	<b>22,199.49</b>	<b>22,199.49</b>	<b>38,226,152</b>	<b>38,226,152</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	4.73	4.73	4.73	46.00	13.00	41.00	100	0	0
General Office Building	4.73	4.73	4.73	33.00	48.00	19.00	100	0	0



Proposed New Year 2040 - Yolo County, Winter

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

Government Office Building	4.73	4.73	4.73	33.00	62.00	5.00	100	0	0
High Turnover (Sit Down)	4.73	4.73	4.73	8.50	72.50	19.00	100	0	0
Strip Mall	4.73	4.73	4.73	16.60	64.40	19.00	100	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
General Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Government Office Building	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
High Turnover (Sit Down Restaurant)	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234
Strip Mall	0.521810	0.057965	0.187230	0.123673	0.019872	0.005440	0.041096	0.012596	0.000418	0.001144	0.025895	0.000627	0.002234

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149
NaturalGas Unmitigated	0.7124	6.2882	4.0623	0.0389		0.4922	0.4922		0.4922	0.4922		7,771.2343	7,771.2343	0.1490	0.1425	7,817.4149

## Proposed New Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	31935.3	0.3444	2.9431	1.2524	0.0188		0.2380	0.2380		0.2380	0.2380		3,757.0894	3,757.0894	0.0720	0.0689	3,779.4160
General Office Building	21435.6	0.2312	2.1015	1.7653	0.0126		0.1597	0.1597		0.1597	0.1597		2,521.8372	2,521.8372	0.0483	0.0462	2,536.8233
Government Office Building	2679.45	0.0289	0.2627	0.2207	1.5800e-003		0.0200	0.0200		0.0200	0.0200		315.2297	315.2297	6.0400e-003	5.7800e-003	317.1029
High Turnover (Sit Down Restaurant)	9047.83	0.0976	0.8870	0.7451	5.3200e-003		0.0674	0.0674		0.0674	0.0674		1,064.4506	1,064.4506	0.0204	0.0195	1,070.7761
Strip Mall	957.333	0.0103	0.0939	0.0788	5.6000e-004		7.1300e-003	7.1300e-003		7.1300e-003	7.1300e-003		112.6274	112.6274	2.1600e-003	2.0600e-003	113.2967
<b>Total</b>		<b>0.7124</b>	<b>6.2882</b>	<b>4.0623</b>	<b>0.0389</b>		<b>0.4922</b>	<b>0.4922</b>		<b>0.4922</b>	<b>0.4922</b>		<b>7,771.2343</b>	<b>7,771.2343</b>	<b>0.1490</b>	<b>0.1425</b>	<b>7,817.4149</b>



Proposed New Year 2040 - Yolo County, Winter

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

Mitigated	40.8760	10.0722	86.0821	0.0626		1.1954	1.1954		1.1954	1.1954	0.0000	11,795.7425	11,795.7425	0.3650	0.2135	11,868.4986
Unmitigated	40.8760	10.0722	86.0821	0.0626		1.1954	1.1954		1.1954	1.1954	0.0000	11,795.7425	11,795.7425	0.3650	0.2135	11,868.4986

**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					
Architectoral Coating	3.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0677	9.1235	3.8824	0.0582		0.7377	0.7377		0.7377	0.7377	0.0000	11,647.0588	11,647.0588	0.2232	0.2135	11,716.2715
Landscaping	2.4623	0.9486	82.1998	4.3600e-003		0.4577	0.4577		0.4577	0.4577		148.6837	148.6837	0.1417		152.2271
<b>Total</b>	<b>40.8760</b>	<b>10.0722</b>	<b>86.0821</b>	<b>0.0626</b>		<b>1.1954</b>	<b>1.1954</b>		<b>1.1954</b>	<b>1.1954</b>	<b>0.0000</b>	<b>11,795.7425</b>	<b>11,795.7425</b>	<b>0.3650</b>	<b>0.2135</b>	<b>11,868.4986</b>

## Proposed New Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	lb/day										lb/day					
Architectural Coating	3.0960					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	34.2501					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.0677	9.1235	3.8824	0.0582		0.7377	0.7377		0.7377	0.7377	0.0000	11,647.0588	11,647.0588	0.2232	0.2135	11,716.2715
Landscaping	2.4623	0.9486	82.1998	4.3600e-003		0.4577	0.4577		0.4577	0.4577		148.6837	148.6837	0.1417		152.2271
<b>Total</b>	<b>40.8760</b>	<b>10.0722</b>	<b>86.0821</b>	<b>0.0626</b>		<b>1.1954</b>	<b>1.1954</b>		<b>1.1954</b>	<b>1.1954</b>	<b>0.0000</b>	<b>11,795.7425</b>	<b>11,795.7425</b>	<b>0.3650</b>	<b>0.2135</b>	<b>11,868.4986</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**

## Proposed New Year 2040 - Yolo County, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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