

Appendix A

# Air Quality and Greenhouse Gas Supporting Information

## Commercial Output Files

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Annual

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

**7460 and 7444 Green Valley Road - Commercial**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.10	Acre	1.10	47,916.00	0
Strip Mall	83.50	1000sqft	1.92	83,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Project specific assumptions.
- Construction Phase - Project specific assumptions
- Architectural Coating - Compliance with AQMD Rule 215
- Woodstoves - Project specific assumptions.
- Area Coating - Low VOC paint required.
- Area Mitigation - Project specific assumptions.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	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**

tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	18.00	40.00

**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					
2024	0.2266	2.0535	2.3338	4.6300e-003	0.1383	0.0869	0.2251	0.0555	0.0815	0.1370	0.0000	406.5039	406.5039	0.0797	9.0300e-003	411.1890
2025	0.4178	0.0983	0.1632	2.7000e-004	3.0900e-003	4.4800e-003	7.5800e-003	8.2000e-004	4.2300e-003	5.0500e-003	0.0000	23.5283	23.5283	5.2600e-003	1.0000e-004	23.6900
<b>Maximum</b>	<b>0.4178</b>	<b>2.0535</b>	<b>2.3338</b>	<b>4.6300e-003</b>	<b>0.1383</b>	<b>0.0869</b>	<b>0.2251</b>	<b>0.0555</b>	<b>0.0815</b>	<b>0.1370</b>	<b>0.0000</b>	<b>406.5039</b>	<b>406.5039</b>	<b>0.0797</b>	<b>9.0300e-003</b>	<b>411.1890</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					
2024	0.2266	2.0535	2.3338	4.6300e-003	0.1383	0.0869	0.2251	0.0555	0.0815	0.1370	0.0000	406.5035	406.5035	0.0797	9.0300e-003	411.1887
2025	0.4178	0.0983	0.1632	2.7000e-004	3.0900e-003	4.4800e-003	7.5800e-003	8.2000e-004	4.2300e-003	5.0500e-003	0.0000	23.5283	23.5283	5.2600e-003	1.0000e-004	23.6899
<b>Maximum</b>	<b>0.4178</b>	<b>2.0535</b>	<b>2.3338</b>	<b>4.6300e-003</b>	<b>0.1383</b>	<b>0.0869</b>	<b>0.2251</b>	<b>0.0555</b>	<b>0.0815</b>	<b>0.1370</b>	<b>0.0000</b>	<b>406.5035</b>	<b>406.5035</b>	<b>0.0797</b>	<b>9.0300e-003</b>	<b>411.1887</b>

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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2024	3-31-2024	0.6438	0.6438
2	4-1-2024	6-30-2024	0.5373	0.5373
3	7-1-2024	9-30-2024	0.5432	0.5432
4	10-1-2024	12-31-2024	0.5459	0.5459
5	1-1-2025	3-31-2025	0.5166	0.5166
		Highest	0.6438	0.6438

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3697	1.0000e-005	7.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5100e-003	1.5100e-003	0.0000	0.0000	1.6100e-003
Energy	3.2100e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	133.6467	133.6467	0.0171	2.5800e-003	134.8427
Mobile	1.7570	1.9505	12.6941	0.0197	1.9249	0.0212	1.9461	0.5158	0.0199	0.5358	0.0000	1,818.3421	1,818.3421	0.1715	0.1109	1,855.6641
Waste						0.0000	0.0000		0.0000	0.0000	17.7962	0.0000	17.7962	1.0517	0.0000	44.0894
Water						0.0000	0.0000		0.0000	0.0000	1.9622	4.3241	6.2864	0.2022	4.8400e-003	12.7857
<b>Total</b>	<b>2.1299</b>	<b>1.9797</b>	<b>12.7195</b>	<b>0.0199</b>	<b>1.9249</b>	<b>0.0234</b>	<b>1.9483</b>	<b>0.5158</b>	<b>0.0222</b>	<b>0.5380</b>	<b>19.7585</b>	<b>1,956.3144</b>	<b>1,976.0729</b>	<b>1.4425</b>	<b>0.1183</b>	<b>2,047.3835</b>

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

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3697	1.0000e-005	7.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5100e-003	1.5100e-003	0.0000	0.0000	1.6100e-003
Energy	3.2100e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	133.6467	133.6467	0.0171	2.5800e-003	134.8427
Mobile	1.7570	1.9505	12.6941	0.0197	1.9249	0.0212	1.9461	0.5158	0.0199	0.5358	0.0000	1,818.342 1	1,818.342 1	0.1715	0.1109	1,855.664 1
Waste						0.0000	0.0000		0.0000	0.0000	17.7962	0.0000	17.7962	1.0517	0.0000	44.0894
Water						0.0000	0.0000		0.0000	0.0000	1.9622	4.3241	6.2864	0.2022	4.8400e-003	12.7857
<b>Total</b>	<b>2.1299</b>	<b>1.9797</b>	<b>12.7195</b>	<b>0.0199</b>	<b>1.9249</b>	<b>0.0234</b>	<b>1.9483</b>	<b>0.5158</b>	<b>0.0222</b>	<b>0.5380</b>	<b>19.7585</b>	<b>1,956.314 4</b>	<b>1,976.072 9</b>	<b>1.4425</b>	<b>0.1183</b>	<b>2,047.383 5</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	1/1/2024	1/26/2024	5	20	
2	Site Preparation	Site Preparation	1/27/2024	2/2/2024	5	5	
3	Grading	Grading	2/3/2024	2/14/2024	5	8	

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4	Building Construction	Building Construction	2/15/2024	1/1/2025	5	230
5	Paving	Paving	1/2/2025	1/27/2025	5	18
6	Architectural Coating	Architectural Coating	1/28/2025	3/24/2025	5	40

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 1.1**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 125,250; Non-Residential Outdoor: 41,750; Striped Parking Area: 2,875 (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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36

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Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	47.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2024**

**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	0.0224	0.2088	0.1971	3.9000e-004		9.6000e-003	9.6000e-003		8.9200e-003	8.9200e-003	0.0000	33.9961	33.9961	9.5100e-003	0.0000	34.2338
<b>Total</b>	<b>0.0224</b>	<b>0.2088</b>	<b>0.1971</b>	<b>3.9000e-004</b>		<b>9.6000e-003</b>	<b>9.6000e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>33.9961</b>	<b>33.9961</b>	<b>9.5100e-003</b>	<b>0.0000</b>	<b>34.2338</b>

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**3.2 Demolition - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.2000e-004	3.8700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9265	0.9265	3.0000e-005	3.0000e-005	0.9357
<b>Total</b>	<b>5.0000e-004</b>	<b>3.2000e-004</b>	<b>3.8700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9265</b>	<b>0.9265</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9357</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0224	0.2088	0.1971	3.9000e-004		9.6000e-003	9.6000e-003		8.9200e-003	8.9200e-003	0.0000	33.9960	33.9960	9.5100e-003	0.0000	34.2338
<b>Total</b>	<b>0.0224</b>	<b>0.2088</b>	<b>0.1971</b>	<b>3.9000e-004</b>		<b>9.6000e-003</b>	<b>9.6000e-003</b>		<b>8.9200e-003</b>	<b>8.9200e-003</b>	<b>0.0000</b>	<b>33.9960</b>	<b>33.9960</b>	<b>9.5100e-003</b>	<b>0.0000</b>	<b>34.2338</b>

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**3.2 Demolition - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.2000e-004	3.8700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9265	0.9265	3.0000e-005	3.0000e-005	0.9357
<b>Total</b>	<b>5.0000e-004</b>	<b>3.2000e-004</b>	<b>3.8700e-003</b>	<b>1.0000e-005</b>	<b>1.1800e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9265</b>	<b>0.9265</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9357</b>

**3.3 Site Preparation - 2024**

**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					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0679	0.0458	1.0000e-004		3.0700e-003	3.0700e-003		2.8300e-003	2.8300e-003	0.0000	8.3643	8.3643	2.7100e-003	0.0000	8.4319
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0679</b>	<b>0.0458</b>	<b>1.0000e-004</b>	<b>0.0491</b>	<b>3.0700e-003</b>	<b>0.0522</b>	<b>0.0253</b>	<b>2.8300e-003</b>	<b>0.0281</b>	<b>0.0000</b>	<b>8.3643</b>	<b>8.3643</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>8.4319</b>

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**3.3 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.1600e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2780	0.2780	1.0000e-005	1.0000e-005	0.2807
<b>Total</b>	<b>1.5000e-004</b>	<b>1.0000e-004</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2780</b>	<b>0.2780</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2807</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0679	0.0458	1.0000e-004		3.0700e-003	3.0700e-003		2.8300e-003	2.8300e-003	0.0000	8.3643	8.3643	2.7100e-003	0.0000	8.4319
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0679</b>	<b>0.0458</b>	<b>1.0000e-004</b>	<b>0.0491</b>	<b>3.0700e-003</b>	<b>0.0522</b>	<b>0.0253</b>	<b>2.8300e-003</b>	<b>0.0281</b>	<b>0.0000</b>	<b>8.3643</b>	<b>8.3643</b>	<b>2.7100e-003</b>	<b>0.0000</b>	<b>8.4319</b>

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**3.3 Site Preparation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	1.1600e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2780	0.2780	1.0000e-005	1.0000e-005	0.2807
<b>Total</b>	<b>1.5000e-004</b>	<b>1.0000e-004</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.6000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.2780</b>	<b>0.2780</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2807</b>

**3.4 Grading - 2024**

**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					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0681	0.0590	1.2000e-004		2.9000e-003	2.9000e-003		2.6700e-003	2.6700e-003	0.0000	10.4256	10.4256	3.3700e-003	0.0000	10.5099
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0681</b>	<b>0.0590</b>	<b>1.2000e-004</b>	<b>0.0283</b>	<b>2.9000e-003</b>	<b>0.0312</b>	<b>0.0137</b>	<b>2.6700e-003</b>	<b>0.0164</b>	<b>0.0000</b>	<b>10.4256</b>	<b>10.4256</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.5099</b>

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**3.4 Grading - 2024**

**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	2.0000e-004	1.3000e-004	1.5500e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3706	0.3706	1.0000e-005	1.0000e-005	0.3743
<b>Total</b>	<b>2.0000e-004</b>	<b>1.3000e-004</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3706</b>	<b>0.3706</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3743</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0283	0.0000	0.0283	0.0137	0.0000	0.0137	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0681	0.0590	1.2000e-004		2.9000e-003	2.9000e-003		2.6700e-003	2.6700e-003	0.0000	10.4256	10.4256	3.3700e-003	0.0000	10.5099
<b>Total</b>	<b>6.6500e-003</b>	<b>0.0681</b>	<b>0.0590</b>	<b>1.2000e-004</b>	<b>0.0283</b>	<b>2.9000e-003</b>	<b>0.0312</b>	<b>0.0137</b>	<b>2.6700e-003</b>	<b>0.0164</b>	<b>0.0000</b>	<b>10.4256</b>	<b>10.4256</b>	<b>3.3700e-003</b>	<b>0.0000</b>	<b>10.5099</b>

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**3.4 Grading - 2024**

**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	2.0000e-004	1.3000e-004	1.5500e-003	0.0000	4.7000e-004	0.0000	4.7000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3706	0.3706	1.0000e-005	1.0000e-005	0.3743
<b>Total</b>	<b>2.0000e-004</b>	<b>1.3000e-004</b>	<b>1.5500e-003</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>4.7000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.3706</b>	<b>0.3706</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.3743</b>

**3.5 Building Construction - 2024**

**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	0.1685	1.5393	1.8511	3.0900e-003		0.0702	0.0702		0.0661	0.0661	0.0000	265.4672	265.4672	0.0628	0.0000	267.0366
<b>Total</b>	<b>0.1685</b>	<b>1.5393</b>	<b>1.8511</b>	<b>3.0900e-003</b>		<b>0.0702</b>	<b>0.0702</b>		<b>0.0661</b>	<b>0.0661</b>	<b>0.0000</b>	<b>265.4672</b>	<b>265.4672</b>	<b>0.0628</b>	<b>0.0000</b>	<b>267.0366</b>

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**3.5 Building Construction - 2024**

**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	3.4700e-003	0.1574	0.0354	5.6000e-004	0.0164	8.4000e-004	0.0173	4.7500e-003	8.0000e-004	5.5500e-003	0.0000	53.4352	53.4352	1.7000e-004	7.9700e-003	55.8155
Worker	0.0180	0.0114	0.1387	3.6000e-004	0.0424	2.3000e-004	0.0426	0.0113	2.2000e-004	0.0115	0.0000	33.2404	33.2404	1.1300e-003	1.0100e-003	33.5706
<b>Total</b>	<b>0.0215</b>	<b>0.1688</b>	<b>0.1742</b>	<b>9.2000e-004</b>	<b>0.0588</b>	<b>1.0700e-003</b>	<b>0.0599</b>	<b>0.0160</b>	<b>1.0200e-003</b>	<b>0.0170</b>	<b>0.0000</b>	<b>86.6757</b>	<b>86.6757</b>	<b>1.3000e-003</b>	<b>8.9800e-003</b>	<b>89.3861</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1685	1.5393	1.8511	3.0900e-003		0.0702	0.0702		0.0661	0.0661	0.0000	265.4669	265.4669	0.0628	0.0000	267.0363
<b>Total</b>	<b>0.1685</b>	<b>1.5393</b>	<b>1.8511</b>	<b>3.0900e-003</b>		<b>0.0702</b>	<b>0.0702</b>		<b>0.0661</b>	<b>0.0661</b>	<b>0.0000</b>	<b>265.4669</b>	<b>265.4669</b>	<b>0.0628</b>	<b>0.0000</b>	<b>267.0363</b>

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**3.5 Building Construction - 2024**

**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	3.4700e-003	0.1574	0.0354	5.6000e-004	0.0164	8.4000e-004	0.0173	4.7500e-003	8.0000e-004	5.5500e-003	0.0000	53.4352	53.4352	1.7000e-004	7.9700e-003	55.8155
Worker	0.0180	0.0114	0.1387	3.6000e-004	0.0424	2.3000e-004	0.0426	0.0113	2.2000e-004	0.0115	0.0000	33.2404	33.2404	1.1300e-003	1.0100e-003	33.5706
<b>Total</b>	<b>0.0215</b>	<b>0.1688</b>	<b>0.1742</b>	<b>9.2000e-004</b>	<b>0.0588</b>	<b>1.0700e-003</b>	<b>0.0599</b>	<b>0.0160</b>	<b>1.0200e-003</b>	<b>0.0170</b>	<b>0.0000</b>	<b>86.6757</b>	<b>86.6757</b>	<b>1.3000e-003</b>	<b>8.9800e-003</b>	<b>89.3861</b>

**3.5 Building Construction - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8000e-004	6.2300e-003	8.0400e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	1.1596	1.1596	2.7000e-004	0.0000	1.1664
<b>Total</b>	<b>6.8000e-004</b>	<b>6.2300e-003</b>	<b>8.0400e-003</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>1.1596</b>	<b>1.1596</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.1664</b>

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**3.5 Building Construction - 2025**

**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	1.0000e-005	6.7000e-004	1.5000e-004	0.0000	7.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2296	0.2296	0.0000	3.0000e-005	0.2398
Worker	7.0000e-005	4.0000e-005	5.6000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1405	0.1405	0.0000	0.0000	0.1418
<b>Total</b>	<b>8.0000e-005</b>	<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.3700</b>	<b>0.3700</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.3816</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.8000e-004	6.2300e-003	8.0400e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.5000e-004	2.5000e-004	0.0000	1.1596	1.1596	2.7000e-004	0.0000	1.1664
<b>Total</b>	<b>6.8000e-004</b>	<b>6.2300e-003</b>	<b>8.0400e-003</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.5000e-004</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>1.1596</b>	<b>1.1596</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.1664</b>

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**3.5 Building Construction - 2025**

**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	1.0000e-005	6.7000e-004	1.5000e-004	0.0000	7.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2296	0.2296	0.0000	3.0000e-005	0.2398
Worker	7.0000e-005	4.0000e-005	5.6000e-004	0.0000	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1405	0.1405	0.0000	0.0000	0.1418
<b>Total</b>	<b>8.0000e-005</b>	<b>7.1000e-004</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.3700</b>	<b>0.3700</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.3816</b>

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3800e-003	0.0678	0.1096	1.7000e-004		3.1700e-003	3.1700e-003		2.9300e-003	2.9300e-003	0.0000	14.7404	14.7404	4.6300e-003	0.0000	14.8562
Paving	1.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.8200e-003</b>	<b>0.0678</b>	<b>0.1096</b>	<b>1.7000e-004</b>		<b>3.1700e-003</b>	<b>3.1700e-003</b>		<b>2.9300e-003</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>14.7404</b>	<b>14.7404</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8562</b>

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**3.6 Paving - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.4000e-004	4.3200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.0759	1.0759	3.0000e-005	3.0000e-005	1.0861
<b>Total</b>	<b>5.7000e-004</b>	<b>3.4000e-004</b>	<b>4.3200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.0759</b>	<b>1.0759</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0861</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3800e-003	0.0678	0.1096	1.7000e-004		3.1700e-003	3.1700e-003		2.9300e-003	2.9300e-003	0.0000	14.7404	14.7404	4.6300e-003	0.0000	14.8562
Paving	1.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.8200e-003</b>	<b>0.0678</b>	<b>0.1096</b>	<b>1.7000e-004</b>		<b>3.1700e-003</b>	<b>3.1700e-003</b>		<b>2.9300e-003</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>14.7404</b>	<b>14.7404</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>14.8562</b>

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**3.6 Paving - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.4000e-004	4.3200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.0759	1.0759	3.0000e-005	3.0000e-005	1.0861
<b>Total</b>	<b>5.7000e-004</b>	<b>3.4000e-004</b>	<b>4.3200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.0759</b>	<b>1.0759</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0861</b>

**3.7 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4037					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4200e-003	0.0229	0.0362	6.0000e-005		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	5.1065	5.1065	2.8000e-004	0.0000	5.1135
<b>Total</b>	<b>0.4071</b>	<b>0.0229</b>	<b>0.0362</b>	<b>6.0000e-005</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>5.1065</b>	<b>5.1065</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>5.1135</b>

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**3.7 Architectural Coating - 2025**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.4000e-004	4.3200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.0759	1.0759	3.0000e-005	3.0000e-005	1.0861
<b>Total</b>	<b>5.7000e-004</b>	<b>3.4000e-004</b>	<b>4.3200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.0759</b>	<b>1.0759</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0861</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4037					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4200e-003	0.0229	0.0362	6.0000e-005		1.0300e-003	1.0300e-003		1.0300e-003	1.0300e-003	0.0000	5.1065	5.1065	2.8000e-004	0.0000	5.1135
<b>Total</b>	<b>0.4071</b>	<b>0.0229</b>	<b>0.0362</b>	<b>6.0000e-005</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>		<b>1.0300e-003</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>5.1065</b>	<b>5.1065</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>5.1135</b>

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**3.7 Architectural Coating - 2025**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7000e-004	3.4000e-004	4.3200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.0759	1.0759	3.0000e-005	3.0000e-005	1.0861
<b>Total</b>	<b>5.7000e-004</b>	<b>3.4000e-004</b>	<b>4.3200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.0759</b>	<b>1.0759</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0861</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7570	1.9505	12.6941	0.0197	1.9249	0.0212	1.9461	0.5158	0.0199	0.5358	0.0000	1,818.342 1	1,818.342 1	0.1715	0.1109	1,855.664 1
Unmitigated	1.7570	1.9505	12.6941	0.0197	1.9249	0.0212	1.9461	0.5158	0.0199	0.5358	0.0000	1,818.342 1	1,818.342 1	0.1715	0.1109	1,855.664 1

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Strip Mall	3,700.72	3,510.34	1,705.91	5,218,478	5,218,478
<b>Total</b>	<b>3,700.72</b>	<b>3,510.34</b>	<b>1,705.91</b>	<b>5,218,478</b>	<b>5,218,478</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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	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
Parking Lot	0.438995	0.062839	0.224823	0.155974	0.045145	0.009085	0.011459	0.004323	0.000682	0.000481	0.037420	0.001294	0.007479
Strip Mall	0.438995	0.062839	0.224823	0.155974	0.045145	0.009085	0.011459	0.004323	0.000682	0.000481	0.037420	0.001294	0.007479

**5.0 Energy Detail**

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	101.8317	101.8317	0.0165	2.0000e-003	102.8387
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	101.8317	101.8317	0.0165	2.0000e-003	102.8387
NaturalGas Mitigated	3.2100e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.8150	31.8150	6.1000e-004	5.8000e-004	32.0040
NaturalGas Unmitigated	3.2100e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.8150	31.8150	6.1000e-004	5.8000e-004	32.0040

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**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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	596190	3.2100e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.8150	31.8150	6.1000e-004	5.8000e-004	32.0040
<b>Total</b>		<b>3.2100e-003</b>	<b>0.0292</b>	<b>0.0246</b>	<b>1.8000e-004</b>		<b>2.2200e-003</b>	<b>2.2200e-003</b>		<b>2.2200e-003</b>	<b>2.2200e-003</b>	<b>0.0000</b>	<b>31.8150</b>	<b>31.8150</b>	<b>6.1000e-004</b>	<b>5.8000e-004</b>	<b>32.0040</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	596190	3.2100e-003	0.0292	0.0246	1.8000e-004		2.2200e-003	2.2200e-003		2.2200e-003	2.2200e-003	0.0000	31.8150	31.8150	6.1000e-004	5.8000e-004	32.0040
<b>Total</b>		<b>3.2100e-003</b>	<b>0.0292</b>	<b>0.0246</b>	<b>1.8000e-004</b>		<b>2.2200e-003</b>	<b>2.2200e-003</b>		<b>2.2200e-003</b>	<b>2.2200e-003</b>	<b>0.0000</b>	<b>31.8150</b>	<b>31.8150</b>	<b>6.1000e-004</b>	<b>5.8000e-004</b>	<b>32.0040</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	16770.6	1.5517	2.5000e-004	3.0000e-005	1.5670
Strip Mall	1.08383e+006	100.2800	0.0162	1.9700e-003	101.2716
<b>Total</b>		<b>101.8317</b>	<b>0.0165</b>	<b>2.0000e-003</b>	<b>102.8387</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	16770.6	1.5517	2.5000e-004	3.0000e-005	1.5670
Strip Mall	1.08383e+006	100.2800	0.0162	1.9700e-003	101.2716
<b>Total</b>		<b>101.8317</b>	<b>0.0165</b>	<b>2.0000e-003</b>	<b>102.8387</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3697	1.0000e-005	7.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5100e-003	1.5100e-003	0.0000	0.0000	1.6100e-003
Unmitigated	0.3697	1.0000e-005	7.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5100e-003	1.5100e-003	0.0000	0.0000	1.6100e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0404					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3292					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5100e-003	1.5100e-003	0.0000	0.0000	1.6100e-003
<b>Total</b>	<b>0.3697</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5100e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6100e-003</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0404					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3292					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.0000e-005	1.0000e-005	7.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5100e-003	1.5100e-003	0.0000	0.0000	1.6100e-003
<b>Total</b>	<b>0.3697</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5100e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6100e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.2864	0.2022	4.8400e-003	12.7857
Unmitigated	6.2864	0.2022	4.8400e-003	12.7857

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	6.18506 / 3.79084	6.2864	0.2022	4.8400e-003	12.7857
<b>Total</b>		<b>6.2864</b>	<b>0.2022</b>	<b>4.8400e-003</b>	<b>12.7857</b>

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**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	6.18506 / 3.79084	6.2864	0.2022	4.8400e-003	12.7857
<b>Total</b>		<b>6.2864</b>	<b>0.2022</b>	<b>4.8400e-003</b>	<b>12.7857</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.7962	1.0517	0.0000	44.0894
Unmitigated	17.7962	1.0517	0.0000	44.0894

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	87.67	17.7962	1.0517	0.0000	44.0894
<b>Total</b>		<b>17.7962</b>	<b>1.0517</b>	<b>0.0000</b>	<b>44.0894</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	87.67	17.7962	1.0517	0.0000	44.0894
<b>Total</b>		<b>17.7962</b>	<b>1.0517</b>	<b>0.0000</b>	<b>44.0894</b>

**9.0 Operational Offroad**

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7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Annual

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

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**7460 and 7444 Green Valley Road - Commercial**

El Dorado-Mountain County County, Summer

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	1.10	Acre	1.10	47,916.00	0
Strip Mall	83.50	1000sqft	1.92	83,500.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Project specific assumptions.
- Construction Phase - Project specific assumptions
- Architectural Coating - Compliance with AQMD Rule 215
- Woodstoves - Project specific assumptions.
- Area Coating - Low VOC paint required.
- Area Mitigation - Project specific assumptions.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	100.00

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	18.00	40.00

**2.0 Emissions Summary**

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7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	2.7282	27.2094	20.1282	0.0399	19.8049	1.2301	21.0350	10.1417	1.1317	11.2734	0.0000	3,857.1855	3,857.1855	1.1966	0.0856	3,884.3288
2025	20.3865	13.8302	17.6086	0.0350	0.5346	0.5365	1.0711	0.1451	0.5047	0.6499	0.0000	3,395.1962	3,395.1962	0.6116	0.0835	3,435.3712
<b>Maximum</b>	<b>20.3865</b>	<b>27.2094</b>	<b>20.1282</b>	<b>0.0399</b>	<b>19.8049</b>	<b>1.2301</b>	<b>21.0350</b>	<b>10.1417</b>	<b>1.1317</b>	<b>11.2734</b>	<b>0.0000</b>	<b>3,857.1855</b>	<b>3,857.1855</b>	<b>1.1966</b>	<b>0.0856</b>	<b>3,884.3288</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					
2024	2.7282	27.2094	20.1282	0.0399	19.8049	1.2301	21.0350	10.1417	1.1317	11.2734	0.0000	3,857.1855	3,857.1855	1.1966	0.0856	3,884.3288
2025	20.3865	13.8302	17.6086	0.0350	0.5346	0.5365	1.0711	0.1451	0.5047	0.6499	0.0000	3,395.1962	3,395.1962	0.6116	0.0835	3,435.3712
<b>Maximum</b>	<b>20.3865</b>	<b>27.2094</b>	<b>20.1282</b>	<b>0.0399</b>	<b>19.8049</b>	<b>1.2301</b>	<b>21.0350</b>	<b>10.1417</b>	<b>1.1317</b>	<b>11.2734</b>	<b>0.0000</b>	<b>3,857.1855</b>	<b>3,857.1855</b>	<b>1.1966</b>	<b>0.0856</b>	<b>3,884.3288</b>



7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County 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	2.0259	8.0000e-005	8.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0185	0.0185	5.0000e-005		0.0197
Energy	0.0176	0.1601	0.1345	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.1644	192.1644	3.6800e-003	3.5200e-003	193.3063
Mobile	12.7811	10.7370	74.0179	0.1245	12.0470	0.1274	12.1744	3.2172	0.1197	3.3369		12,651.7658	12,651.7658	1.0214	0.6919	12,883.4894
<b>Total</b>	<b>14.8245</b>	<b>10.8973</b>	<b>74.1611</b>	<b>0.1254</b>	<b>12.0470</b>	<b>0.1396</b>	<b>12.1866</b>	<b>3.2172</b>	<b>0.1319</b>	<b>3.3491</b>		<b>12,843.9487</b>	<b>12,843.9487</b>	<b>1.0252</b>	<b>0.6954</b>	<b>13,076.8154</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	2.0259	8.0000e-005	8.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0185	0.0185	5.0000e-005		0.0197
Energy	0.0176	0.1601	0.1345	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.1644	192.1644	3.6800e-003	3.5200e-003	193.3063
Mobile	12.7811	10.7370	74.0179	0.1245	12.0470	0.1274	12.1744	3.2172	0.1197	3.3369		12,651.7658	12,651.7658	1.0214	0.6919	12,883.4894
<b>Total</b>	<b>14.8245</b>	<b>10.8973</b>	<b>74.1611</b>	<b>0.1254</b>	<b>12.0470</b>	<b>0.1396</b>	<b>12.1866</b>	<b>3.2172</b>	<b>0.1319</b>	<b>3.3491</b>		<b>12,843.9487</b>	<b>12,843.9487</b>	<b>1.0252</b>	<b>0.6954</b>	<b>13,076.8154</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County 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	1/1/2024	1/26/2024	5	20	
2	Site Preparation	Site Preparation	1/27/2024	2/2/2024	5	5	
3	Grading	Grading	2/3/2024	2/14/2024	5	8	
4	Building Construction	Building Construction	2/15/2024	1/1/2025	5	230	
5	Paving	Paving	1/2/2025	1/27/2025	5	18	
6	Architectural Coating	Architectural Coating	1/28/2025	3/24/2025	5	40	

**Acres of Grading (Site Preparation Phase): 7.5**

**Acres of Grading (Grading Phase): 8**

**Acres of Paving: 1.1**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 125,250; Non-Residential Outdoor: 41,750; Striped Parking Area: 2,875 (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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	47.00	22.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	9.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.2 Demolition - 2024**

**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	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922		3,747.4228	3,747.4228	1.0485		3,773.6345
<b>Total</b>	<b>2.2437</b>	<b>20.8781</b>	<b>19.7073</b>	<b>0.0388</b>		<b>0.9602</b>	<b>0.9602</b>		<b>0.8922</b>	<b>0.8922</b>		<b>3,747.4228</b>	<b>3,747.4228</b>	<b>1.0485</b>		<b>3,773.6345</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	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.2 Demolition - 2024**

**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	2.2437	20.8781	19.7073	0.0388		0.9602	0.9602		0.8922	0.8922	0.0000	3,747.4228	3,747.4228	1.0485		3,773.6345
<b>Total</b>	<b>2.2437</b>	<b>20.8781</b>	<b>19.7073</b>	<b>0.0388</b>		<b>0.9602</b>	<b>0.9602</b>		<b>0.8922</b>	<b>0.8922</b>	<b>0.0000</b>	<b>3,747.4228</b>	<b>3,747.4228</b>	<b>1.0485</b>		<b>3,773.6345</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	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.3 Site Preparation - 2024**

**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	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310		3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>		<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</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	0.0673	0.0334	0.5050	1.3000e-003	0.1479	7.8000e-004	0.1487	0.0392	7.2000e-004	0.0399		131.7153	131.7153	3.8200e-003	3.4300e-003	132.8331
<b>Total</b>	<b>0.0673</b>	<b>0.0334</b>	<b>0.5050</b>	<b>1.3000e-003</b>	<b>0.1479</b>	<b>7.8000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.2000e-004</b>	<b>0.0399</b>		<b>131.7153</b>	<b>131.7153</b>	<b>3.8200e-003</b>	<b>3.4300e-003</b>	<b>132.8331</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.3 Site Preparation - 2024**

**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	2.6609	27.1760	18.3356	0.0381		1.2294	1.2294		1.1310	1.1310	0.0000	3,688.010 0	3,688.010 0	1.1928		3,717.829 4
<b>Total</b>	<b>2.6609</b>	<b>27.1760</b>	<b>18.3356</b>	<b>0.0381</b>	<b>19.6570</b>	<b>1.2294</b>	<b>20.8864</b>	<b>10.1025</b>	<b>1.1310</b>	<b>11.2335</b>	<b>0.0000</b>	<b>3,688.010 0</b>	<b>3,688.010 0</b>	<b>1.1928</b>		<b>3,717.829 4</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	0.0673	0.0334	0.5050	1.3000e-003	0.1479	7.8000e-004	0.1487	0.0392	7.2000e-004	0.0399		131.7153	131.7153	3.8200e-003	3.4300e-003	132.8331
<b>Total</b>	<b>0.0673</b>	<b>0.0334</b>	<b>0.5050</b>	<b>1.3000e-003</b>	<b>0.1479</b>	<b>7.8000e-004</b>	<b>0.1487</b>	<b>0.0392</b>	<b>7.2000e-004</b>	<b>0.0399</b>		<b>131.7153</b>	<b>131.7153</b>	<b>3.8200e-003</b>	<b>3.4300e-003</b>	<b>132.8331</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.4 Grading - 2024**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>1.6617</b>	<b>17.0310</b>	<b>14.7594</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7244</b>	<b>7.8070</b>	<b>3.4247</b>	<b>0.6665</b>	<b>4.0912</b>		<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</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	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.4 Grading - 2024**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2
<b>Total</b>	<b>1.6617</b>	<b>17.0310</b>	<b>14.7594</b>	<b>0.0297</b>	<b>7.0826</b>	<b>0.7244</b>	<b>7.8070</b>	<b>3.4247</b>	<b>0.6665</b>	<b>4.0912</b>	<b>0.0000</b>	<b>2,873.054 1</b>	<b>2,873.054 1</b>	<b>0.9292</b>		<b>2,896.284 2</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	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.5 Building Construction - 2024**

**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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>		<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</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	0.0308	1.3235	0.3040	4.8700e-003	0.1485	7.2900e-003	0.1558	0.0427	6.9800e-003	0.0497		514.2850	514.2850	1.6300e-003	0.0767	537.1764
Worker	0.1757	0.0873	1.3186	3.4000e-003	0.3861	2.0400e-003	0.3881	0.1024	1.8800e-003	0.1043		343.9233	343.9233	9.9800e-003	8.9600e-003	346.8419
<b>Total</b>	<b>0.2065</b>	<b>1.4108</b>	<b>1.6226</b>	<b>8.2700e-003</b>	<b>0.5346</b>	<b>9.3300e-003</b>	<b>0.5439</b>	<b>0.1451</b>	<b>8.8600e-003</b>	<b>0.1540</b>		<b>858.2083</b>	<b>858.2083</b>	<b>0.0116</b>	<b>0.0856</b>	<b>884.0184</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.5 Building Construction - 2024**

**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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
<b>Total</b>	<b>1.4716</b>	<b>13.4438</b>	<b>16.1668</b>	<b>0.0270</b>		<b>0.6133</b>	<b>0.6133</b>		<b>0.5769</b>	<b>0.5769</b>	<b>0.0000</b>	<b>2,555.6989</b>	<b>2,555.6989</b>	<b>0.6044</b>		<b>2,570.8077</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	0.0308	1.3235	0.3040	4.8700e-003	0.1485	7.2900e-003	0.1558	0.0427	6.9800e-003	0.0497		514.2850	514.2850	1.6300e-003	0.0767	537.1764
Worker	0.1757	0.0873	1.3186	3.4000e-003	0.3861	2.0400e-003	0.3881	0.1024	1.8800e-003	0.1043		343.9233	343.9233	9.9800e-003	8.9600e-003	346.8419
<b>Total</b>	<b>0.2065</b>	<b>1.4108</b>	<b>1.6226</b>	<b>8.2700e-003</b>	<b>0.5346</b>	<b>9.3300e-003</b>	<b>0.5439</b>	<b>0.1451</b>	<b>8.8600e-003</b>	<b>0.1540</b>		<b>858.2083</b>	<b>858.2083</b>	<b>0.0116</b>	<b>0.0856</b>	<b>884.0184</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.5 Building Construction - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>		<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</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	0.0299	1.2821	0.2990	4.7900e-003	0.1485	7.0100e-003	0.1555	0.0427	6.7000e-003	0.0494		505.9826	505.9826	1.5700e-003	0.0752	528.4164
Worker	0.1651	0.0784	1.2249	3.2900e-003	0.3861	1.9300e-003	0.3880	0.1024	1.7800e-003	0.1042		332.7392	332.7392	9.0500e-003	8.3600e-003	335.4568
<b>Total</b>	<b>0.1950</b>	<b>1.3605</b>	<b>1.5239</b>	<b>8.0800e-003</b>	<b>0.5346</b>	<b>8.9400e-003</b>	<b>0.5435</b>	<b>0.1451</b>	<b>8.4800e-003</b>	<b>0.1536</b>		<b>838.7218</b>	<b>838.7218</b>	<b>0.0106</b>	<b>0.0835</b>	<b>863.8731</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.5 Building Construction - 2025**

**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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
<b>Total</b>	<b>1.3674</b>	<b>12.4697</b>	<b>16.0847</b>	<b>0.0270</b>		<b>0.5276</b>	<b>0.5276</b>		<b>0.4963</b>	<b>0.4963</b>	<b>0.0000</b>	<b>2,556.474 4</b>	<b>2,556.474 4</b>	<b>0.6010</b>		<b>2,571.498 1</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	0.0299	1.2821	0.2990	4.7900e-003	0.1485	7.0100e-003	0.1555	0.0427	6.7000e-003	0.0494		505.9826	505.9826	1.5700e-003	0.0752	528.4164
Worker	0.1651	0.0784	1.2249	3.2900e-003	0.3861	1.9300e-003	0.3880	0.1024	1.7800e-003	0.1042		332.7392	332.7392	9.0500e-003	8.3600e-003	335.4568
<b>Total</b>	<b>0.1950</b>	<b>1.3605</b>	<b>1.5239</b>	<b>8.0800e-003</b>	<b>0.5346</b>	<b>8.9400e-003</b>	<b>0.5435</b>	<b>0.1451</b>	<b>8.4800e-003</b>	<b>0.1536</b>		<b>838.7218</b>	<b>838.7218</b>	<b>0.0106</b>	<b>0.0835</b>	<b>863.8731</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.6 Paving - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259		1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.1601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9798</b>	<b>7.5321</b>	<b>12.1778</b>	<b>0.0189</b>		<b>0.3524</b>	<b>0.3524</b>		<b>0.3259</b>	<b>0.3259</b>		<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</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	0.0703	0.0334	0.5212	1.4000e-003	0.1643	8.2000e-004	0.1651	0.0436	7.6000e-004	0.0443		141.5912	141.5912	3.8500e-003	3.5600e-003	142.7476
<b>Total</b>	<b>0.0703</b>	<b>0.0334</b>	<b>0.5212</b>	<b>1.4000e-003</b>	<b>0.1643</b>	<b>8.2000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.6000e-004</b>	<b>0.0443</b>		<b>141.5912</b>	<b>141.5912</b>	<b>3.8500e-003</b>	<b>3.5600e-003</b>	<b>142.7476</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.6 Paving - 2025**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8197	7.5321	12.1778	0.0189		0.3524	0.3524		0.3259	0.3259	0.0000	1,805.3926	1,805.3926	0.5673		1,819.5741
Paving	0.1601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9798</b>	<b>7.5321</b>	<b>12.1778</b>	<b>0.0189</b>		<b>0.3524</b>	<b>0.3524</b>		<b>0.3259</b>	<b>0.3259</b>	<b>0.0000</b>	<b>1,805.3926</b>	<b>1,805.3926</b>	<b>0.5673</b>		<b>1,819.5741</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	0.0703	0.0334	0.5212	1.4000e-003	0.1643	8.2000e-004	0.1651	0.0436	7.6000e-004	0.0443		141.5912	141.5912	3.8500e-003	3.5600e-003	142.7476
<b>Total</b>	<b>0.0703</b>	<b>0.0334</b>	<b>0.5212</b>	<b>1.4000e-003</b>	<b>0.1643</b>	<b>8.2000e-004</b>	<b>0.1651</b>	<b>0.0436</b>	<b>7.6000e-004</b>	<b>0.0443</b>		<b>141.5912</b>	<b>141.5912</b>	<b>3.8500e-003</b>	<b>3.5600e-003</b>	<b>142.7476</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.7 Architectural Coating - 2025**

**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	20.1840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>20.3548</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	0.0316	0.0150	0.2346	6.3000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		63.7160	63.7160	1.7300e-003	1.6000e-003	64.2364
<b>Total</b>	<b>0.0316</b>	<b>0.0150</b>	<b>0.2346</b>	<b>6.3000e-004</b>	<b>0.0739</b>	<b>3.7000e-004</b>	<b>0.0743</b>	<b>0.0196</b>	<b>3.4000e-004</b>	<b>0.0200</b>		<b>63.7160</b>	<b>63.7160</b>	<b>1.7300e-003</b>	<b>1.6000e-003</b>	<b>64.2364</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**3.7 Architectural Coating - 2025**

**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	20.1840					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>20.3548</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	0.0316	0.0150	0.2346	6.3000e-004	0.0739	3.7000e-004	0.0743	0.0196	3.4000e-004	0.0200		63.7160	63.7160	1.7300e-003	1.6000e-003	64.2364
<b>Total</b>	<b>0.0316</b>	<b>0.0150</b>	<b>0.2346</b>	<b>6.3000e-004</b>	<b>0.0739</b>	<b>3.7000e-004</b>	<b>0.0743</b>	<b>0.0196</b>	<b>3.4000e-004</b>	<b>0.0200</b>		<b>63.7160</b>	<b>63.7160</b>	<b>1.7300e-003</b>	<b>1.6000e-003</b>	<b>64.2364</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.7811	10.7370	74.0179	0.1245	12.0470	0.1274	12.1744	3.2172	0.1197	3.3369		12,651.76 58	12,651.76 58	1.0214	0.6919	12,883.48 94
Unmitigated	12.7811	10.7370	74.0179	0.1245	12.0470	0.1274	12.1744	3.2172	0.1197	3.3369		12,651.76 58	12,651.76 58	1.0214	0.6919	12,883.48 94

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Strip Mall	3,700.72	3,510.34	1,705.91	5,218,478	5,218,478
Total	3,700.72	3,510.34	1,705.91	5,218,478	5,218,478

**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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

**4.4 Fleet Mix**

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.438995	0.062839	0.224823	0.155974	0.045145	0.009085	0.011459	0.004323	0.000682	0.000481	0.037420	0.001294	0.007479
Strip Mall	0.438995	0.062839	0.224823	0.155974	0.045145	0.009085	0.011459	0.004323	0.000682	0.000481	0.037420	0.001294	0.007479

**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	0.0176	0.1601	0.1345	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.1644	192.1644	3.6800e-003	3.5200e-003	193.3063
NaturalGas Unmitigated	0.0176	0.1601	0.1345	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.1644	192.1644	3.6800e-003	3.5200e-003	193.3063

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County 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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	1633.4	0.0176	0.1601	0.1345	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.1644	192.1644	3.6800e-003	3.5200e-003	193.3063
<b>Total</b>		<b>0.0176</b>	<b>0.1601</b>	<b>0.1345</b>	<b>9.6000e-004</b>		<b>0.0122</b>	<b>0.0122</b>		<b>0.0122</b>	<b>0.0122</b>		<b>192.1644</b>	<b>192.1644</b>	<b>3.6800e-003</b>	<b>3.5200e-003</b>	<b>193.3063</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	1.6334	0.0176	0.1601	0.1345	9.6000e-004		0.0122	0.0122		0.0122	0.0122		192.1644	192.1644	3.6800e-003	3.5200e-003	193.3063
<b>Total</b>		<b>0.0176</b>	<b>0.1601</b>	<b>0.1345</b>	<b>9.6000e-004</b>		<b>0.0122</b>	<b>0.0122</b>		<b>0.0122</b>	<b>0.0122</b>		<b>192.1644</b>	<b>192.1644</b>	<b>3.6800e-003</b>	<b>3.5200e-003</b>	<b>193.3063</b>

**6.0 Area Detail**

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0259	8.0000e-005	8.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0185	0.0185	5.0000e-005		0.0197
Unmitigated	2.0259	8.0000e-005	8.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0185	0.0185	5.0000e-005		0.0197

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2212					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.9000e-004	8.0000e-005	8.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0185	0.0185	5.0000e-005		0.0197
<b>Total</b>	<b>2.0259</b>	<b>8.0000e-005</b>	<b>8.6200e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0185</b>	<b>0.0185</b>	<b>5.0000e-005</b>		<b>0.0197</b>

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2212					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8039					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.9000e-004	8.0000e-005	8.6200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0185	0.0185	5.0000e-005		0.0197
<b>Total</b>	<b>2.0259</b>	<b>8.0000e-005</b>	<b>8.6200e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0185</b>	<b>0.0185</b>	<b>5.0000e-005</b>		<b>0.0197</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

7460 and 7444 Green Valley Road - Commercial - El Dorado-Mountain County County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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**Residential Outlay Output Files**

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Annual

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

**7460 and 7444 Green Valley Road - Proposed Housing**

**El Dorado-Mountain County County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.90	Acre	0.90	39,204.00	0
Condo/Townhouse	60.00	Dwelling Unit	1.25	60,000.00	172

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Project specific assumptions.
- Construction Phase - Project specific assumptions
- Architectural Coating - Compliance with AQMD Rule 215
- Woodstoves - Project specific assumptions.
- Area Coating - Compliance with AQMD Rule 215.
- Area Mitigation - Project specific assumptions.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Annual

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

tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	PhaseEndDate	12/9/2024	1/20/2025
tblFireplaces	NumberGas	33.00	0.00
tblFireplaces	NumberNoFireplace	6.00	0.00
tblFireplaces	NumberWood	21.00	0.00
tblLandUse	LotAcreage	3.75	1.25
tblWoodstoves	NumberCatalytic	3.00	0.00
tblWoodstoves	NumberNoncatalytic	3.00	0.00

**2.0 Emissions Summary**

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7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Annual

**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					
2024	0.4618	1.6131	1.8369	3.6600e-003	0.0745	0.0652	0.1398	0.0229	0.0622	0.0851	0.0000	312.6964	312.6964	0.0500	5.3200e-003	315.5303
2025	0.1376	8.1800e-003	0.0147	3.0000e-005	6.6000e-004	3.6000e-004	1.0300e-003	1.8000e-004	3.6000e-004	5.4000e-004	0.0000	2.2893	2.2893	1.1000e-004	1.0000e-005	2.2966
<b>Maximum</b>	<b>0.4618</b>	<b>1.6131</b>	<b>1.8369</b>	<b>3.6600e-003</b>	<b>0.0745</b>	<b>0.0652</b>	<b>0.1398</b>	<b>0.0229</b>	<b>0.0622</b>	<b>0.0851</b>	<b>0.0000</b>	<b>312.6964</b>	<b>312.6964</b>	<b>0.0500</b>	<b>5.3200e-003</b>	<b>315.5303</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					
2024	0.4618	1.6131	1.8369	3.6600e-003	0.0745	0.0652	0.1398	0.0229	0.0622	0.0851	0.0000	312.6961	312.6961	0.0500	5.3200e-003	315.5300
2025	0.1376	8.1800e-003	0.0147	3.0000e-005	6.6000e-004	3.6000e-004	1.0300e-003	1.8000e-004	3.6000e-004	5.4000e-004	0.0000	2.2893	2.2893	1.1000e-004	1.0000e-005	2.2966
<b>Maximum</b>	<b>0.4618</b>	<b>1.6131</b>	<b>1.8369</b>	<b>3.6600e-003</b>	<b>0.0745</b>	<b>0.0652</b>	<b>0.1398</b>	<b>0.0229</b>	<b>0.0622</b>	<b>0.0851</b>	<b>0.0000</b>	<b>312.6961</b>	<b>312.6961</b>	<b>0.0500</b>	<b>5.3200e-003</b>	<b>315.5300</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Annual

**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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2024	3-31-2024	0.5028	0.5028
2	4-1-2024	6-30-2024	0.5056	0.5056
3	7-1-2024	9-30-2024	0.5111	0.5111
4	10-1-2024	12-31-2024	0.5496	0.5496
5	1-1-2025	3-31-2025	0.1488	0.1488
		Highest	0.5496	0.5496

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2891	5.1300e-003	0.4451	2.0000e-005		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	0.7277	0.7277	7.0000e-004	0.0000	0.7452
Energy	1.6000e-003	0.0137	5.8200e-003	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	44.8775	44.8775	5.0000e-003	8.6000e-004	45.2587
Mobile	0.2996	0.4188	2.6240	4.6400e-003	0.4621	4.8100e-003	0.4669	0.1238	4.5200e-003	0.1284	0.0000	427.7767	427.7767	0.0318	0.0228	435.3702
Waste						0.0000	0.0000		0.0000	0.0000	5.6026	0.0000	5.6026	0.3311	0.0000	13.8801
Water						0.0000	0.0000		0.0000	0.0000	1.2402	2.7552	3.9955	0.1278	3.0600e-003	8.1036
<b>Total</b>	<b>0.5904</b>	<b>0.4376</b>	<b>3.0749</b>	<b>4.7500e-003</b>	<b>0.4621</b>	<b>8.3900e-003</b>	<b>0.4705</b>	<b>0.1238</b>	<b>8.1000e-003</b>	<b>0.1319</b>	<b>6.8428</b>	<b>476.1371</b>	<b>482.9799</b>	<b>0.4965</b>	<b>0.0267</b>	<b>503.3577</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2891	5.1300e-003	0.4451	2.0000e-005		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	0.7277	0.7277	7.0000e-004	0.0000	0.7452
Energy	1.6000e-003	0.0137	5.8200e-003	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	44.8775	44.8775	5.0000e-003	8.6000e-004	45.2587
Mobile	0.2996	0.4188	2.6240	4.6400e-003	0.4621	4.8100e-003	0.4669	0.1238	4.5200e-003	0.1284	0.0000	427.7767	427.7767	0.0318	0.0228	435.3702
Waste						0.0000	0.0000		0.0000	0.0000	5.6026	0.0000	5.6026	0.3311	0.0000	13.8801
Water						0.0000	0.0000		0.0000	0.0000	1.2402	2.7552	3.9955	0.1278	3.0600e-003	8.1036
<b>Total</b>	<b>0.5904</b>	<b>0.4376</b>	<b>3.0749</b>	<b>4.7500e-003</b>	<b>0.4621</b>	<b>8.3900e-003</b>	<b>0.4705</b>	<b>0.1238</b>	<b>8.1000e-003</b>	<b>0.1319</b>	<b>6.8428</b>	<b>476.1371</b>	<b>482.9799</b>	<b>0.4965</b>	<b>0.0267</b>	<b>503.3577</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	1/1/2024	1/26/2024	5	20	
2	Site Preparation	Site Preparation	1/27/2024	1/30/2024	5	3	
3	Grading	Grading	1/31/2024	2/5/2024	5	6	

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4	Building Construction	Building Construction	2/6/2024	11/11/2024	5	220
5	Paving	Paving	11/12/2024	11/25/2024	5	10
6	Architectural Coating	Architectural Coating	11/26/2024	1/20/2025	5	40

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 0.9**

**Residential Indoor: 121,500; Residential Outdoor: 40,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,352 (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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

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Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	60.00	13.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2024**

**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	0.0144	0.1389	0.1349	2.4000e-004		6.3100e-003	6.3100e-003		5.8900e-003	5.8900e-003	0.0000	21.0916	21.0916	5.3400e-003	0.0000	21.2250
<b>Total</b>	<b>0.0144</b>	<b>0.1389</b>	<b>0.1349</b>	<b>2.4000e-004</b>		<b>6.3100e-003</b>	<b>6.3100e-003</b>		<b>5.8900e-003</b>	<b>5.8900e-003</b>	<b>0.0000</b>	<b>21.0916</b>	<b>21.0916</b>	<b>5.3400e-003</b>	<b>0.0000</b>	<b>21.2250</b>

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**3.2 Demolition - 2024**

**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	4.4000e-004	2.7000e-004	3.3500e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8030	0.8030	3.0000e-005	2.0000e-005	0.8110
<b>Total</b>	<b>4.4000e-004</b>	<b>2.7000e-004</b>	<b>3.3500e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>1.0000e-005</b>	<b>1.0300e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8030</b>	<b>0.8030</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8110</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0144	0.1389	0.1349	2.4000e-004		6.3100e-003	6.3100e-003		5.8900e-003	5.8900e-003	0.0000	21.0915	21.0915	5.3400e-003	0.0000	21.2250
<b>Total</b>	<b>0.0144</b>	<b>0.1389</b>	<b>0.1349</b>	<b>2.4000e-004</b>		<b>6.3100e-003</b>	<b>6.3100e-003</b>		<b>5.8900e-003</b>	<b>5.8900e-003</b>	<b>0.0000</b>	<b>21.0915</b>	<b>21.0915</b>	<b>5.3400e-003</b>	<b>0.0000</b>	<b>21.2250</b>

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**3.2 Demolition - 2024**

**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	4.4000e-004	2.7000e-004	3.3500e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.8030	0.8030	3.0000e-005	2.0000e-005	0.8110
<b>Total</b>	<b>4.4000e-004</b>	<b>2.7000e-004</b>	<b>3.3500e-003</b>	<b>1.0000e-005</b>	<b>1.0200e-003</b>	<b>1.0000e-005</b>	<b>1.0300e-003</b>	<b>2.7000e-004</b>	<b>1.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.8030</b>	<b>0.8030</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8110</b>

**3.3 Site Preparation - 2024**

**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					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2400e-003	0.0131	9.5800e-003	2.0000e-005		5.0000e-004	5.0000e-004		4.6000e-004	4.6000e-004	0.0000	2.1533	2.1533	7.0000e-004	0.0000	2.1708
<b>Total</b>	<b>1.2400e-003</b>	<b>0.0131</b>	<b>9.5800e-003</b>	<b>2.0000e-005</b>	<b>1.5900e-003</b>	<b>5.0000e-004</b>	<b>2.0900e-003</b>	<b>1.7000e-004</b>	<b>4.6000e-004</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.1533</b>	<b>2.1533</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>2.1708</b>

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**3.3 Site Preparation - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0494	0.0494	0.0000	0.0000	0.0499
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0494</b>	<b>0.0494</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0499</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2400e-003	0.0131	9.5800e-003	2.0000e-005		5.0000e-004	5.0000e-004		4.6000e-004	4.6000e-004	0.0000	2.1533	2.1533	7.0000e-004	0.0000	2.1708
<b>Total</b>	<b>1.2400e-003</b>	<b>0.0131</b>	<b>9.5800e-003</b>	<b>2.0000e-005</b>	<b>1.5900e-003</b>	<b>5.0000e-004</b>	<b>2.0900e-003</b>	<b>1.7000e-004</b>	<b>4.6000e-004</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.1533</b>	<b>2.1533</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>2.1708</b>

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**3.3 Site Preparation - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	2.1000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0494	0.0494	0.0000	0.0000	0.0499
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0494</b>	<b>0.0494</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0499</b>

**3.4 Grading - 2024**

**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					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6000e-003	0.0276	0.0174	4.0000e-005		1.1400e-003	1.1400e-003		1.0500e-003	1.0500e-003	0.0000	3.6207	3.6207	1.1700e-003	0.0000	3.6500
<b>Total</b>	<b>2.6000e-003</b>	<b>0.0276</b>	<b>0.0174</b>	<b>4.0000e-005</b>	<b>0.0142</b>	<b>1.1400e-003</b>	<b>0.0153</b>	<b>6.8500e-003</b>	<b>1.0500e-003</b>	<b>7.9000e-003</b>	<b>0.0000</b>	<b>3.6207</b>	<b>3.6207</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>3.6500</b>

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**3.4 Grading - 2024**

**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-005	4.0000e-005	5.2000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1248
<b>Total</b>	<b>7.0000e-005</b>	<b>4.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1235</b>	<b>0.1235</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1248</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6000e-003	0.0276	0.0174	4.0000e-005		1.1400e-003	1.1400e-003		1.0500e-003	1.0500e-003	0.0000	3.6207	3.6207	1.1700e-003	0.0000	3.6500
<b>Total</b>	<b>2.6000e-003</b>	<b>0.0276</b>	<b>0.0174</b>	<b>4.0000e-005</b>	<b>0.0142</b>	<b>1.1400e-003</b>	<b>0.0153</b>	<b>6.8500e-003</b>	<b>1.0500e-003</b>	<b>7.9000e-003</b>	<b>0.0000</b>	<b>3.6207</b>	<b>3.6207</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>3.6500</b>

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**3.4 Grading - 2024**

**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-005	4.0000e-005	5.2000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1235	0.1235	0.0000	0.0000	0.1248
<b>Total</b>	<b>7.0000e-005</b>	<b>4.0000e-005</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1235</b>	<b>0.1235</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1248</b>

**3.5 Building Construction - 2024**

**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	0.1597	1.2823	1.4100	2.5000e-003		0.0538	0.0538		0.0515	0.0515	0.0000	207.7139	207.7139	0.0387	0.0000	208.6811
<b>Total</b>	<b>0.1597</b>	<b>1.2823</b>	<b>1.4100</b>	<b>2.5000e-003</b>		<b>0.0538</b>	<b>0.0538</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>207.7139</b>	<b>207.7139</b>	<b>0.0387</b>	<b>0.0000</b>	<b>208.6811</b>

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

**3.5 Building Construction - 2024**

**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	1.7900e-003	0.0812	0.0183	2.9000e-004	8.4700e-003	4.3000e-004	8.9000e-003	2.4500e-003	4.1000e-004	2.8600e-003	0.0000	27.5767	27.5767	9.0000e-005	4.1100e-003	28.8051
Worker	0.0201	0.0127	0.1547	4.0000e-004	0.0472	2.6000e-004	0.0475	0.0126	2.4000e-004	0.0128	0.0000	37.0608	37.0608	1.2500e-003	1.1300e-003	37.4289
<b>Total</b>	<b>0.0219</b>	<b>0.0939</b>	<b>0.1729</b>	<b>6.9000e-004</b>	<b>0.0557</b>	<b>6.9000e-004</b>	<b>0.0564</b>	<b>0.0150</b>	<b>6.5000e-004</b>	<b>0.0157</b>	<b>0.0000</b>	<b>64.6375</b>	<b>64.6375</b>	<b>1.3400e-003</b>	<b>5.2400e-003</b>	<b>66.2341</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1597	1.2823	1.4100	2.5000e-003		0.0538	0.0538		0.0515	0.0515	0.0000	207.7137	207.7137	0.0387	0.0000	208.6809
<b>Total</b>	<b>0.1597</b>	<b>1.2823</b>	<b>1.4100</b>	<b>2.5000e-003</b>		<b>0.0538</b>	<b>0.0538</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>207.7137</b>	<b>207.7137</b>	<b>0.0387</b>	<b>0.0000</b>	<b>208.6809</b>

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

**3.5 Building Construction - 2024**

**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	1.7900e-003	0.0812	0.0183	2.9000e-004	8.4700e-003	4.3000e-004	8.9000e-003	2.4500e-003	4.1000e-004	2.8600e-003	0.0000	27.5767	27.5767	9.0000e-005	4.1100e-003	28.8051
Worker	0.0201	0.0127	0.1547	4.0000e-004	0.0472	2.6000e-004	0.0475	0.0126	2.4000e-004	0.0128	0.0000	37.0608	37.0608	1.2500e-003	1.1300e-003	37.4289
<b>Total</b>	<b>0.0219</b>	<b>0.0939</b>	<b>0.1729</b>	<b>6.9000e-004</b>	<b>0.0557</b>	<b>6.9000e-004</b>	<b>0.0564</b>	<b>0.0150</b>	<b>6.5000e-004</b>	<b>0.0157</b>	<b>0.0000</b>	<b>64.6375</b>	<b>64.6375</b>	<b>1.3400e-003</b>	<b>5.2400e-003</b>	<b>66.2341</b>

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2100e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7574	7.7574	2.4600e-003	0.0000	7.8188
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.3900e-003</b>	<b>0.0405</b>	<b>0.0585</b>	<b>9.0000e-005</b>		<b>1.9800e-003</b>	<b>1.9800e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>7.7574</b>	<b>7.7574</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8188</b>

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

**3.6 Paving - 2024**

**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	2.5000e-004	1.6000e-004	1.9300e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4633	0.4633	2.0000e-005	1.0000e-005	0.4679
<b>Total</b>	<b>2.5000e-004</b>	<b>1.6000e-004</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4633</b>	<b>0.4633</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4679</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2100e-003	0.0405	0.0585	9.0000e-005		1.9800e-003	1.9800e-003		1.8300e-003	1.8300e-003	0.0000	7.7573	7.7573	2.4600e-003	0.0000	7.8188
Paving	1.1800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.3900e-003</b>	<b>0.0405</b>	<b>0.0585</b>	<b>9.0000e-005</b>		<b>1.9800e-003</b>	<b>1.9800e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>7.7573</b>	<b>7.7573</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8188</b>

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**3.6 Paving - 2024**

**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	2.5000e-004	1.6000e-004	1.9300e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4633	0.4633	2.0000e-005	1.0000e-005	0.4679
<b>Total</b>	<b>2.5000e-004</b>	<b>1.6000e-004</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4633</b>	<b>0.4633</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4679</b>

**3.7 Architectural Coating - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2529					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3500e-003	0.0158	0.0235	4.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	3.3192	3.3192	1.9000e-004	0.0000	3.3239
<b>Total</b>	<b>0.2552</b>	<b>0.0158</b>	<b>0.0235</b>	<b>4.0000e-005</b>		<b>7.9000e-004</b>	<b>7.9000e-004</b>		<b>7.9000e-004</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>3.3192</b>	<b>3.3192</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>3.3239</b>

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**3.7 Architectural Coating - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.3000e-004	4.0200e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9636	0.9636	3.0000e-005	3.0000e-005	0.9732
<b>Total</b>	<b>5.2000e-004</b>	<b>3.3000e-004</b>	<b>4.0200e-003</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9636</b>	<b>0.9636</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9732</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2529					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3500e-003	0.0158	0.0235	4.0000e-005		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	3.3192	3.3192	1.9000e-004	0.0000	3.3239
<b>Total</b>	<b>0.2552</b>	<b>0.0158</b>	<b>0.0235</b>	<b>4.0000e-005</b>		<b>7.9000e-004</b>	<b>7.9000e-004</b>		<b>7.9000e-004</b>	<b>7.9000e-004</b>	<b>0.0000</b>	<b>3.3192</b>	<b>3.3192</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>3.3239</b>

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**3.7 Architectural Coating - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	3.3000e-004	4.0200e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2300e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9636	0.9636	3.0000e-005	3.0000e-005	0.9732
<b>Total</b>	<b>5.2000e-004</b>	<b>3.3000e-004</b>	<b>4.0200e-003</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>1.0000e-005</b>	<b>1.2300e-003</b>	<b>3.3000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>0.9636</b>	<b>0.9636</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.9732</b>

**3.7 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-003	8.0200e-003	0.0127	2.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7897
<b>Total</b>	<b>0.1374</b>	<b>8.0200e-003</b>	<b>0.0127</b>	<b>2.0000e-005</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.7873</b>	<b>1.7873</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.7897</b>

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**3.7 Architectural Coating - 2025**

**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	2.6000e-004	1.6000e-004	2.0100e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5021	0.5021	2.0000e-005	1.0000e-005	0.5069
<b>Total</b>	<b>2.6000e-004</b>	<b>1.6000e-004</b>	<b>2.0100e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5021</b>	<b>0.5021</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5069</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1362					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2000e-003	8.0200e-003	0.0127	2.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	1.7873	1.7873	1.0000e-004	0.0000	1.7897
<b>Total</b>	<b>0.1374</b>	<b>8.0200e-003</b>	<b>0.0127</b>	<b>2.0000e-005</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.7873</b>	<b>1.7873</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.7897</b>

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

**3.7 Architectural Coating - 2025**

**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	2.6000e-004	1.6000e-004	2.0100e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5021	0.5021	2.0000e-005	1.0000e-005	0.5069
<b>Total</b>	<b>2.6000e-004</b>	<b>1.6000e-004</b>	<b>2.0100e-003</b>	<b>1.0000e-005</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>6.6000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.5021</b>	<b>0.5021</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5069</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2996	0.4188	2.6240	4.6400e-003	0.4621	4.8100e-003	0.4669	0.1238	4.5200e-003	0.1284	0.0000	427.7767	427.7767	0.0318	0.0228	435.3702
Unmitigated	0.2996	0.4188	2.6240	4.6400e-003	0.4621	4.8100e-003	0.4669	0.1238	4.5200e-003	0.1284	0.0000	427.7767	427.7767	0.0318	0.0228	435.3702

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	439.20	488.40	376.80	1,252,705	1,252,705
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>439.20</b>	<b>488.40</b>	<b>376.80</b>	<b>1,252,705</b>	<b>1,252,705</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
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.438995	0.062839	0.224823	0.155974	0.045145	0.009085	0.011459	0.004323	0.000682	0.000481	0.037420	0.001294	0.007479
Parking Lot	0.438995	0.062839	0.224823	0.155974	0.045145	0.009085	0.011459	0.004323	0.000682	0.000481	0.037420	0.001294	0.007479

**5.0 Energy Detail**

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Annual

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	29.0279	29.0279	4.7000e-003	5.7000e-004	29.3149
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	29.0279	29.0279	4.7000e-003	5.7000e-004	29.3149
NaturalGas Mitigated	1.6000e-003	0.0137	5.8200e-003	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	15.8496	15.8496	3.0000e-004	2.9000e-004	15.9438
NaturalGas Unmitigated	1.6000e-003	0.0137	5.8200e-003	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	15.8496	15.8496	3.0000e-004	2.9000e-004	15.9438

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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					
Condo/Townhouse	297010	1.6000e-003	0.0137	5.8200e-003	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	15.8496	15.8496	3.0000e-004	2.9000e-004	15.9438
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.6000e-003</b>	<b>0.0137</b>	<b>5.8200e-003</b>	<b>9.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>15.8496</b>	<b>15.8496</b>	<b>3.0000e-004</b>	<b>2.9000e-004</b>	<b>15.9438</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	297010	1.6000e-003	0.0137	5.8200e-003	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	15.8496	15.8496	3.0000e-004	2.9000e-004	15.9438
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.6000e-003</b>	<b>0.0137</b>	<b>5.8200e-003</b>	<b>9.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>15.8496</b>	<b>15.8496</b>	<b>3.0000e-004</b>	<b>2.9000e-004</b>	<b>15.9438</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	300013	27.7583	4.4900e-003	5.4000e-004	28.0328
Parking Lot	13721.4	1.2696	2.1000e-004	2.0000e-005	1.2821
<b>Total</b>		<b>29.0279</b>	<b>4.7000e-003</b>	<b>5.6000e-004</b>	<b>29.3149</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	300013	27.7583	4.4900e-003	5.4000e-004	28.0328
Parking Lot	13721.4	1.2696	2.1000e-004	2.0000e-005	1.2821
<b>Total</b>		<b>29.0279</b>	<b>4.7000e-003</b>	<b>5.6000e-004</b>	<b>29.3149</b>

**6.0 Area Detail**

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7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Annual

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2891	5.1300e-003	0.4451	2.0000e-005		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	0.7277	0.7277	7.0000e-004	0.0000	0.7452
Unmitigated	0.2891	5.1300e-003	0.4451	2.0000e-005		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	0.7277	0.7277	7.0000e-004	0.0000	0.7452

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

**6.2 Area by SubCategory**

**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	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0134	5.1300e-003	0.4451	2.0000e-005		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	0.7277	0.7277	7.0000e-004	0.0000	0.7452
<b>Total</b>	<b>0.2891</b>	<b>5.1300e-003</b>	<b>0.4451</b>	<b>2.0000e-005</b>		<b>2.4700e-003</b>	<b>2.4700e-003</b>		<b>2.4700e-003</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>0.7277</b>	<b>0.7277</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>0.7452</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0389					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2369					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0134	5.1300e-003	0.4451	2.0000e-005		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003	0.0000	0.7277	0.7277	7.0000e-004	0.0000	0.7452
<b>Total</b>	<b>0.2891</b>	<b>5.1300e-003</b>	<b>0.4451</b>	<b>2.0000e-005</b>		<b>2.4700e-003</b>	<b>2.4700e-003</b>		<b>2.4700e-003</b>	<b>2.4700e-003</b>	<b>0.0000</b>	<b>0.7277</b>	<b>0.7277</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>0.7452</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.9955	0.1278	3.0600e-003	8.1036
Unmitigated	3.9955	0.1278	3.0600e-003	8.1036

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.90924 / 2.46452	3.9955	0.1278	3.0600e-003	8.1036
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.9955</b>	<b>0.1278</b>	<b>3.0600e-003</b>	<b>8.1036</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	3.90924 / 2.46452	3.9955	0.1278	3.0600e-003	8.1036
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.9955</b>	<b>0.1278</b>	<b>3.0600e-003</b>	<b>8.1036</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.6026	0.3311	0.0000	13.8801
Unmitigated	5.6026	0.3311	0.0000	13.8801

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	27.6	5.6026	0.3311	0.0000	13.8801
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.6026</b>	<b>0.3311</b>	<b>0.0000</b>	<b>13.8801</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	27.6	5.6026	0.3311	0.0000	13.8801
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.6026</b>	<b>0.3311</b>	<b>0.0000</b>	<b>13.8801</b>

**9.0 Operational Offroad**

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

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**7460 and 7444 Green Valley Road - Proposed Housing**

**El Dorado-Mountain County County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	0.90	Acre	0.90	39,204.00	0
Condo/Townhouse	60.00	Dwelling Unit	1.25	60,000.00	172

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	70
<b>Climate Zone</b>	1			<b>Operational Year</b>	2025
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

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

- Project Characteristics -
- Land Use - Project specific assumptions.
- Construction Phase - Project specific assumptions
- Architectural Coating - Compliance with AQMD Rule 215
- Woodstoves - Project specific assumptions.
- Area Coating - Compliance with AQMD Rule 215.
- Area Mitigation - Project specific assumptions.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	PhaseEndDate	12/9/2024	1/20/2025
tblFireplaces	NumberGas	33.00	0.00
tblFireplaces	NumberNoFireplace	6.00	0.00
tblFireplaces	NumberWood	21.00	0.00
tblLandUse	LotAcreage	3.75	1.25
tblWoodstoves	NumberCatalytic	3.00	0.00
tblWoodstoves	NumberNoncatalytic	3.00	0.00

**2.0 Emissions Summary**

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7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	19.6787	13.9108	15.9631	0.0323	7.1647	0.6317	7.7374	3.4465	0.5900	3.9734	0.0000	3,032.6008	3,032.6008	0.7694	0.0567	3,060.5148
2025	19.6661	1.1655	2.1219	3.8100e-003	0.0986	0.0520	0.1506	0.0262	0.0520	0.0781	0.0000	366.4027	366.4027	0.0177	2.1300e-003	367.4804
<b>Maximum</b>	<b>19.6787</b>	<b>13.9108</b>	<b>15.9631</b>	<b>0.0323</b>	<b>7.1647</b>	<b>0.6317</b>	<b>7.7374</b>	<b>3.4465</b>	<b>0.5900</b>	<b>3.9734</b>	<b>0.0000</b>	<b>3,032.6008</b>	<b>3,032.6008</b>	<b>0.7694</b>	<b>0.0567</b>	<b>3,060.5148</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					
2024	19.6787	13.9108	15.9631	0.0323	7.1647	0.6317	7.7374	3.4465	0.5900	3.9734	0.0000	3,032.6008	3,032.6008	0.7694	0.0567	3,060.5148
2025	19.6661	1.1655	2.1219	3.8100e-003	0.0986	0.0520	0.1506	0.0262	0.0520	0.0781	0.0000	366.4027	366.4027	0.0177	2.1300e-003	367.4804
<b>Maximum</b>	<b>19.6787</b>	<b>13.9108</b>	<b>15.9631</b>	<b>0.0323</b>	<b>7.1647</b>	<b>0.6317</b>	<b>7.7374</b>	<b>3.4465</b>	<b>0.5900</b>	<b>3.9734</b>	<b>0.0000</b>	<b>3,032.6008</b>	<b>3,032.6008</b>	<b>0.7694</b>	<b>0.0567</b>	<b>3,060.5148</b>



7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County 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	1.6596	0.0570	4.9455	2.6000e-004		0.0274	0.0274		0.0274	0.0274	0.0000	8.9133	8.9133	8.5400e-003	0.0000	9.1267
Energy	8.7800e-003	0.0750	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003		95.7325	95.7325	1.8300e-003	1.7600e-003	96.3014
Mobile	2.1186	2.3580	16.1421	0.0300	2.9573	0.0296	2.9868	0.7898	0.0278	0.8175		3,047.8551	3,047.8551	0.1999	0.1460	3,096.3613
<b>Total</b>	<b>3.7870</b>	<b>2.4900</b>	<b>21.1195</b>	<b>0.0307</b>	<b>2.9573</b>	<b>0.0631</b>	<b>3.0203</b>	<b>0.7898</b>	<b>0.0613</b>	<b>0.8510</b>	<b>0.0000</b>	<b>3,152.5010</b>	<b>3,152.5010</b>	<b>0.2103</b>	<b>0.1478</b>	<b>3,201.7894</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	1.6596	0.0570	4.9455	2.6000e-004		0.0274	0.0274		0.0274	0.0274	0.0000	8.9133	8.9133	8.5400e-003	0.0000	9.1267
Energy	8.7800e-003	0.0750	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003		95.7325	95.7325	1.8300e-003	1.7600e-003	96.3014
Mobile	2.1186	2.3580	16.1421	0.0300	2.9573	0.0296	2.9868	0.7898	0.0278	0.8175		3,047.8551	3,047.8551	0.1999	0.1460	3,096.3613
<b>Total</b>	<b>3.7870</b>	<b>2.4900</b>	<b>21.1195</b>	<b>0.0307</b>	<b>2.9573</b>	<b>0.0631</b>	<b>3.0203</b>	<b>0.7898</b>	<b>0.0613</b>	<b>0.8510</b>	<b>0.0000</b>	<b>3,152.5010</b>	<b>3,152.5010</b>	<b>0.2103</b>	<b>0.1478</b>	<b>3,201.7894</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County 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	1/1/2024	1/26/2024	5	20	
2	Site Preparation	Site Preparation	1/27/2024	1/30/2024	5	3	
3	Grading	Grading	1/31/2024	2/5/2024	5	6	
4	Building Construction	Building Construction	2/6/2024	11/11/2024	5	220	
5	Paving	Paving	11/12/2024	11/25/2024	5	10	
6	Architectural Coating	Architectural Coating	11/26/2024	1/20/2025	5	40	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 0.9**

**Residential Indoor: 121,500; Residential Outdoor: 40,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,352 (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	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	60.00	13.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.2 Demolition - 2024**

**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	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324.9459	2,324.9459	0.5884		2,339.6562
<b>Total</b>	<b>1.4397</b>	<b>13.8867</b>	<b>13.4879</b>	<b>0.0241</b>		<b>0.6311</b>	<b>0.6311</b>		<b>0.5895</b>	<b>0.5895</b>		<b>2,324.9459</b>	<b>2,324.9459</b>	<b>0.5884</b>		<b>2,339.6562</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	0.0486	0.0242	0.3647	9.4000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.2000e-004	0.0289		95.1277	95.1277	2.7600e-003	2.4800e-003	95.9350
<b>Total</b>	<b>0.0486</b>	<b>0.0242</b>	<b>0.3647</b>	<b>9.4000e-004</b>	<b>0.1068</b>	<b>5.6000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.2000e-004</b>	<b>0.0289</b>		<b>95.1277</b>	<b>95.1277</b>	<b>2.7600e-003</b>	<b>2.4800e-003</b>	<b>95.9350</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.2 Demolition - 2024**

**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	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562
<b>Total</b>	<b>1.4397</b>	<b>13.8867</b>	<b>13.4879</b>	<b>0.0241</b>		<b>0.6311</b>	<b>0.6311</b>		<b>0.5895</b>	<b>0.5895</b>	<b>0.0000</b>	<b>2,324.9459</b>	<b>2,324.9459</b>	<b>0.5884</b>		<b>2,339.6562</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	0.0486	0.0242	0.3647	9.4000e-004	0.1068	5.6000e-004	0.1074	0.0283	5.2000e-004	0.0289		95.1277	95.1277	2.7600e-003	2.4800e-003	95.9350
<b>Total</b>	<b>0.0486</b>	<b>0.0242</b>	<b>0.3647</b>	<b>9.4000e-004</b>	<b>0.1068</b>	<b>5.6000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.2000e-004</b>	<b>0.0289</b>		<b>95.1277</b>	<b>95.1277</b>	<b>2.7600e-003</b>	<b>2.4800e-003</b>	<b>95.9350</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.3 Site Preparation - 2024**

**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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.2406	13.1186	9.5796	0.0245		0.4971	0.4971		0.4573	0.4573		2,373.6514	2,373.6514	0.7677		2,392.8435
<b>Total</b>	<b>1.2406</b>	<b>13.1186</b>	<b>9.5796</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.4971</b>	<b>2.0878</b>	<b>0.1718</b>	<b>0.4573</b>	<b>0.6291</b>		<b>2,373.6514</b>	<b>2,373.6514</b>	<b>0.7677</b>		<b>2,392.8435</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	0.0299	0.0149	0.2244	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178		58.5401	58.5401	1.7000e-003	1.5200e-003	59.0369
<b>Total</b>	<b>0.0299</b>	<b>0.0149</b>	<b>0.2244</b>	<b>5.8000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.2000e-004</b>	<b>0.0178</b>		<b>58.5401</b>	<b>58.5401</b>	<b>1.7000e-003</b>	<b>1.5200e-003</b>	<b>59.0369</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.3 Site Preparation - 2024**

**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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.2406	13.1186	9.5796	0.0245		0.4971	0.4971		0.4573	0.4573	0.0000	2,373.651 4	2,373.651 4	0.7677		2,392.843 5
<b>Total</b>	<b>1.2406</b>	<b>13.1186</b>	<b>9.5796</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.4971</b>	<b>2.0878</b>	<b>0.1718</b>	<b>0.4573</b>	<b>0.6291</b>	<b>0.0000</b>	<b>2,373.651 4</b>	<b>2,373.651 4</b>	<b>0.7677</b>		<b>2,392.843 5</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	0.0299	0.0149	0.2244	5.8000e-004	0.0657	3.5000e-004	0.0661	0.0174	3.2000e-004	0.0178		58.5401	58.5401	1.7000e-003	1.5200e-003	59.0369
<b>Total</b>	<b>0.0299</b>	<b>0.0149</b>	<b>0.2244</b>	<b>5.8000e-004</b>	<b>0.0657</b>	<b>3.5000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.2000e-004</b>	<b>0.0178</b>		<b>58.5401</b>	<b>58.5401</b>	<b>1.7000e-003</b>	<b>1.5200e-003</b>	<b>59.0369</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.4 Grading - 2024**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265		1,995.5803	1,995.5803	0.6454		2,011.7155
<b>Total</b>	<b>1.3015</b>	<b>13.8178</b>	<b>8.6998</b>	<b>0.0206</b>	<b>7.0826</b>	<b>0.5722</b>	<b>7.6548</b>	<b>3.4247</b>	<b>0.5265</b>	<b>3.9512</b>		<b>1,995.5803</b>	<b>1,995.5803</b>	<b>0.6454</b>		<b>2,011.7155</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	0.0374	0.0186	0.2806	7.2000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		73.1752	73.1752	2.1200e-003	1.9100e-003	73.7962
<b>Total</b>	<b>0.0374</b>	<b>0.0186</b>	<b>0.2806</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>4.3000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.0000e-004</b>	<b>0.0222</b>		<b>73.1752</b>	<b>73.1752</b>	<b>2.1200e-003</b>	<b>1.9100e-003</b>	<b>73.7962</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.4 Grading - 2024**

**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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.5803	1,995.5803	0.6454		2,011.7155
<b>Total</b>	<b>1.3015</b>	<b>13.8178</b>	<b>8.6998</b>	<b>0.0206</b>	<b>7.0826</b>	<b>0.5722</b>	<b>7.6548</b>	<b>3.4247</b>	<b>0.5265</b>	<b>3.9512</b>	<b>0.0000</b>	<b>1,995.5803</b>	<b>1,995.5803</b>	<b>0.6454</b>		<b>2,011.7155</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	0.0374	0.0186	0.2806	7.2000e-004	0.0822	4.3000e-004	0.0826	0.0218	4.0000e-004	0.0222		73.1752	73.1752	2.1200e-003	1.9100e-003	73.7962
<b>Total</b>	<b>0.0374</b>	<b>0.0186</b>	<b>0.2806</b>	<b>7.2000e-004</b>	<b>0.0822</b>	<b>4.3000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.0000e-004</b>	<b>0.0222</b>		<b>73.1752</b>	<b>73.1752</b>	<b>2.1200e-003</b>	<b>1.9100e-003</b>	<b>73.7962</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.5 Building Construction - 2024**

**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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4
<b>Total</b>	<b>1.5971</b>	<b>12.8235</b>	<b>14.1002</b>	<b>0.0250</b>		<b>0.5381</b>	<b>0.5381</b>		<b>0.5153</b>	<b>0.5153</b>		<b>2,289.654 1</b>	<b>2,289.654 1</b>	<b>0.4265</b>		<b>2,300.315 4</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	0.0182	0.7820	0.1797	2.8800e-003	0.0877	4.3100e-003	0.0920	0.0252	4.1200e-003	0.0294		303.8957	303.8957	9.6000e-004	0.0453	317.4224
Worker	0.2243	0.1115	1.6833	4.3400e-003	0.4929	2.6000e-003	0.4955	0.1307	2.4000e-003	0.1331		439.0511	439.0511	0.0127	0.0114	442.7770
<b>Total</b>	<b>0.2425</b>	<b>0.8935</b>	<b>1.8630</b>	<b>7.2200e-003</b>	<b>0.5806</b>	<b>6.9100e-003</b>	<b>0.5875</b>	<b>0.1560</b>	<b>6.5200e-003</b>	<b>0.1625</b>		<b>742.9467</b>	<b>742.9467</b>	<b>0.0137</b>	<b>0.0567</b>	<b>760.1994</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.5 Building Construction - 2024**

**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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4
<b>Total</b>	<b>1.5971</b>	<b>12.8235</b>	<b>14.1002</b>	<b>0.0250</b>		<b>0.5381</b>	<b>0.5381</b>		<b>0.5153</b>	<b>0.5153</b>	<b>0.0000</b>	<b>2,289.654 1</b>	<b>2,289.654 1</b>	<b>0.4265</b>		<b>2,300.315 4</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	0.0182	0.7820	0.1797	2.8800e-003	0.0877	4.3100e-003	0.0920	0.0252	4.1200e-003	0.0294		303.8957	303.8957	9.6000e-004	0.0453	317.4224
Worker	0.2243	0.1115	1.6833	4.3400e-003	0.4929	2.6000e-003	0.4955	0.1307	2.4000e-003	0.1331		439.0511	439.0511	0.0127	0.0114	442.7770
<b>Total</b>	<b>0.2425</b>	<b>0.8935</b>	<b>1.8630</b>	<b>7.2200e-003</b>	<b>0.5806</b>	<b>6.9100e-003</b>	<b>0.5875</b>	<b>0.1560</b>	<b>6.5200e-003</b>	<b>0.1625</b>		<b>742.9467</b>	<b>742.9467</b>	<b>0.0137</b>	<b>0.0567</b>	<b>760.1994</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.6 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652		1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0783</b>	<b>8.1030</b>	<b>11.7069</b>	<b>0.0179</b>		<b>0.3957</b>	<b>0.3957</b>		<b>0.3652</b>	<b>0.3652</b>		<b>1,710.2024</b>	<b>1,710.2024</b>	<b>0.5420</b>		<b>1,723.7529</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	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.6 Paving - 2024**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8425	8.1030	11.7069	0.0179		0.3957	0.3957		0.3652	0.3652	0.0000	1,710.2024	1,710.2024	0.5420		1,723.7529
Paving	0.2358					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0783</b>	<b>8.1030</b>	<b>11.7069</b>	<b>0.0179</b>		<b>0.3957</b>	<b>0.3957</b>		<b>0.3652</b>	<b>0.3652</b>	<b>0.0000</b>	<b>1,710.2024</b>	<b>1,710.2024</b>	<b>0.5420</b>		<b>1,723.7529</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	0.0561	0.0279	0.4208	1.0900e-003	0.1232	6.5000e-004	0.1239	0.0327	6.0000e-004	0.0333		109.7628	109.7628	3.1800e-003	2.8600e-003	110.6942
<b>Total</b>	<b>0.0561</b>	<b>0.0279</b>	<b>0.4208</b>	<b>1.0900e-003</b>	<b>0.1232</b>	<b>6.5000e-004</b>	<b>0.1239</b>	<b>0.0327</b>	<b>6.0000e-004</b>	<b>0.0333</b>		<b>109.7628</b>	<b>109.7628</b>	<b>3.1800e-003</b>	<b>2.8600e-003</b>	<b>110.6942</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.7 Architectural Coating - 2024**

**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	19.4531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>19.6339</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</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	0.0449	0.0223	0.3367	8.7000e-004	0.0986	5.2000e-004	0.0991	0.0262	4.8000e-004	0.0266		87.8102	87.8102	2.5500e-003	2.2900e-003	88.5554
<b>Total</b>	<b>0.0449</b>	<b>0.0223</b>	<b>0.3367</b>	<b>8.7000e-004</b>	<b>0.0986</b>	<b>5.2000e-004</b>	<b>0.0991</b>	<b>0.0262</b>	<b>4.8000e-004</b>	<b>0.0266</b>		<b>87.8102</b>	<b>87.8102</b>	<b>2.5500e-003</b>	<b>2.2900e-003</b>	<b>88.5554</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.7 Architectural Coating - 2024**

**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	19.4531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
<b>Total</b>	<b>19.6339</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</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	0.0449	0.0223	0.3367	8.7000e-004	0.0986	5.2000e-004	0.0991	0.0262	4.8000e-004	0.0266		87.8102	87.8102	2.5500e-003	2.2900e-003	88.5554
<b>Total</b>	<b>0.0449</b>	<b>0.0223</b>	<b>0.3367</b>	<b>8.7000e-004</b>	<b>0.0986</b>	<b>5.2000e-004</b>	<b>0.0991</b>	<b>0.0262</b>	<b>4.8000e-004</b>	<b>0.0266</b>		<b>87.8102</b>	<b>87.8102</b>	<b>2.5500e-003</b>	<b>2.2900e-003</b>	<b>88.5554</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.7 Architectural Coating - 2025**

**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	19.4531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>19.6240</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	0.0422	0.0200	0.3127	8.4000e-004	0.0986	4.9000e-004	0.0991	0.0262	4.5000e-004	0.0266		84.9547	84.9547	2.3100e-003	2.1300e-003	85.6485
<b>Total</b>	<b>0.0422</b>	<b>0.0200</b>	<b>0.3127</b>	<b>8.4000e-004</b>	<b>0.0986</b>	<b>4.9000e-004</b>	<b>0.0991</b>	<b>0.0262</b>	<b>4.5000e-004</b>	<b>0.0266</b>		<b>84.9547</b>	<b>84.9547</b>	<b>2.3100e-003</b>	<b>2.1300e-003</b>	<b>85.6485</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**3.7 Architectural Coating - 2025**

**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	19.4531					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>19.6240</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</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	0.0422	0.0200	0.3127	8.4000e-004	0.0986	4.9000e-004	0.0991	0.0262	4.5000e-004	0.0266		84.9547	84.9547	2.3100e-003	2.1300e-003	85.6485
<b>Total</b>	<b>0.0422</b>	<b>0.0200</b>	<b>0.3127</b>	<b>8.4000e-004</b>	<b>0.0986</b>	<b>4.9000e-004</b>	<b>0.0991</b>	<b>0.0262</b>	<b>4.5000e-004</b>	<b>0.0266</b>		<b>84.9547</b>	<b>84.9547</b>	<b>2.3100e-003</b>	<b>2.1300e-003</b>	<b>85.6485</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1186	2.3580	16.1421	0.0300	2.9573	0.0296	2.9868	0.7898	0.0278	0.8175		3,047.855 1	3,047.855 1	0.1999	0.1460	3,096.361 3
Unmitigated	2.1186	2.3580	16.1421	0.0300	2.9573	0.0296	2.9868	0.7898	0.0278	0.8175		3,047.855 1	3,047.855 1	0.1999	0.1460	3,096.361 3

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	439.20	488.40	376.80	1,252,705	1,252,705
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>439.20</b>	<b>488.40</b>	<b>376.80</b>	<b>1,252,705</b>	<b>1,252,705</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
Condo/Townhouse	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.438995	0.062839	0.224823	0.155974	0.045145	0.009085	0.011459	0.004323	0.000682	0.000481	0.037420	0.001294	0.007479
Parking Lot	0.438995	0.062839	0.224823	0.155974	0.045145	0.009085	0.011459	0.004323	0.000682	0.000481	0.037420	0.001294	0.007479

**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	8.7800e-003	0.0750	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003		95.7325	95.7325	1.8300e-003	1.7600e-003	96.3014
NaturalGas Unmitigated	8.7800e-003	0.0750	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003		95.7325	95.7325	1.8300e-003	1.7600e-003	96.3014

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County 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					
Condo/Townhouse	813.727	8.7800e-003	0.0750	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003		95.7325	95.7325	1.8300e-003	1.7600e-003	96.3014
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.7800e-003</b>	<b>0.0750</b>	<b>0.0319</b>	<b>4.8000e-004</b>		<b>6.0600e-003</b>	<b>6.0600e-003</b>		<b>6.0600e-003</b>	<b>6.0600e-003</b>		<b>95.7325</b>	<b>95.7325</b>	<b>1.8300e-003</b>	<b>1.7600e-003</b>	<b>96.3014</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	0.813727	8.7800e-003	0.0750	0.0319	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003		95.7325	95.7325	1.8300e-003	1.7600e-003	96.3014
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.7800e-003</b>	<b>0.0750</b>	<b>0.0319</b>	<b>4.8000e-004</b>		<b>6.0600e-003</b>	<b>6.0600e-003</b>		<b>6.0600e-003</b>	<b>6.0600e-003</b>		<b>95.7325</b>	<b>95.7325</b>	<b>1.8300e-003</b>	<b>1.7600e-003</b>	<b>96.3014</b>

**6.0 Area Detail**

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6596	0.0570	4.9455	2.6000e-004		0.0274	0.0274		0.0274	0.0274	0.0000	8.9133	8.9133	8.5400e-003	0.0000	9.1267
Unmitigated	1.6596	0.0570	4.9455	2.6000e-004		0.0274	0.0274		0.0274	0.0274	0.0000	8.9133	8.9133	8.5400e-003	0.0000	9.1267

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1485	0.0570	4.9455	2.6000e-004		0.0274	0.0274		0.0274	0.0274		8.9133	8.9133	8.5400e-003		9.1267
<b>Total</b>	<b>1.6596</b>	<b>0.0570</b>	<b>4.9455</b>	<b>2.6000e-004</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>	<b>0.0000</b>	<b>8.9133</b>	<b>8.9133</b>	<b>8.5400e-003</b>	<b>0.0000</b>	<b>9.1267</b>

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2132					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2979					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1485	0.0570	4.9455	2.6000e-004		0.0274	0.0274		0.0274	0.0274		8.9133	8.9133	8.5400e-003		9.1267
<b>Total</b>	<b>1.6596</b>	<b>0.0570</b>	<b>4.9455</b>	<b>2.6000e-004</b>		<b>0.0274</b>	<b>0.0274</b>		<b>0.0274</b>	<b>0.0274</b>	<b>0.0000</b>	<b>8.9133</b>	<b>8.9133</b>	<b>8.5400e-003</b>	<b>0.0000</b>	<b>9.1267</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

7460 and 7444 Green Valley Road - Proposed Housing - El Dorado-Mountain County County, Summer

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

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**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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Appendix B

Biological Resources  
Supporting Information

**Special-Status Species with the Potential to Occur on the Project Site**

Scientific Name	Common Name	Status*	General habitat	Microhabitat	Potential to Occur on Project Site
<i>Arctostaphylos nissenana</i>	Nissenan manzanita	CRPR 1B.2	Closed-cone coniferous forest, chaparral.	Usually on metamorphics, associated w/ other chaparral species. 450-1100m.	Absent: Not observed onsite.
<i>Ardea alba</i>	great egret	CSSC	Colonial nester in large trees.	Rookery sites located near marshes, tide-flats, irrigated pastures, and margins of rivers and lakes.	Absent: No habitat onsite.
<i>Danaus plexippus</i>	Monarch Butterfly	FC	Require milkweed host plant (primarily <i>Asclepias</i> species) and other flowing plant species. In the summer, monarch butterflies that breed east of the Rocky Mountains migrate to central Mexico, while those breeding west of the Rockies migrate to the coast of central and southern California.	Monarchs roost for the winter in oyamel fir forests at an elevation of 2,400 to 3,600m.	Absent: No host plant observed onsite.
<i>Emys marmorata</i>	northwestern pond turtle	CSSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, be	Need basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egg-layin	Absent: No habitat onsite.
<i>Horkelia parryi</i>	Parry's horkelia	CRPR 1B.2	Chaparral, cismontane woodland.	Openings In Chaparral Or Woodland; Especially Known From The lone Formation In Amador County. Typically blooms during late spring to early summer. 80-1035m.	Absent: Not observed onsite during the bloom period for the species.
<i>Packera layneae</i>	Layne's ragwort	FT	Chaparral, cismontane woodland.	Ultramafic Soil; Occasionally Along Streams. 200-1000m	Absent: Requisite soils not present.
<i>Pekania pennanti</i>	Fisher	CSSC	Mature or old growth forest	NA	Absent: No habitat onsite.
<i>Rana boylei</i>	foothill yellow-legged frog	CE	Partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats.	Need at least some cobble-sized substrate for egg-laying. Need at least 15 weeks to attain metamorphosis.	Absent: No habitat onsite.
<i>Rana draytonii</i>	California red-legged frog	FT	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation.	Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Absent: No habitat onsite.
<i>Riparia riparia</i>	bank swallow	CT	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert.	Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	Absent: No habitat onsite.
<i>Senecio layneae</i>	<i>Layne's Butterweed</i>	FT	Grows in openings in rocky chaparral on Gabbro and serpentine soils.	NA	Absent: No habitat onsite.
<i>Viburnum ellipticum</i>	oval-leaved viburnum	CRPR 2B.3	Chaparral, cismontane woodland, lower montane coniferous forest.	Typically blooms in late spring to early summer, specifically from May to June. 215-1400m	Absent: Not observed onsite during the bloom period for the species.

Sources: IPaC, CNDDDB (Placerville Quadrangle), and CNPS (Placerville Quadrangle)

**Definitions of Status Codes**

FE = Federally listed as endangered      FT = Federally listed as threatened      FC = Candidate for Federal listing

CE = California State listed as endangered      CT = California State listed as threatened      CSSC = California species of special concern

California Rare Plant Rank (CRPR) List 1A = Plants presumed extinct in California      List 1B = Plants designated rare, threatened or endangered in California and elsewhere      List 2A = Plants presumed extirpated in California but common elsewhere

List 2B = Plants rare threatened or endangered in California, but more common elsewhere      List 3 (Review List) = Plants about which more information is needed

CRPR Threat Ranks: 0.1 = seriously threatened in California      .2 = moderately threatened in California      .3 = not very threatened in California .

**Definitions of Occurrence Probability Rankings**

Present: The species was observed during site visit or has been previously documented to occur within the site.

Potential to occur: Suitable habitat is present on the site.

Low potential to occur: Marginal habitat is present on the site.

Absent: No habitat is present on the site.



**Selected Elements by Scientific Name**  
**California Department of Fish and Wildlife**  
**California Natural Diversity Database**



Query Criteria: Quad<span style='color: Red'> IS </span>(Placerville (3812067))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Actinemys marmorata</i> northwestern pond turtle	ARAAD02031	Proposed Threatened	None	G2	SNR	SSC
<i>Arctostaphylos nissenana</i> Nissenan manzanita	PDERI040V0	None	None	G1	S1	1B.2
<i>Ardea alba</i> great egret	ABNGA04040	None	None	G5	S4	
<i>Bombus pensylvanicus</i> American bumble bee	IIHYM24260	None	None	G3G4	S2	
<i>Central Valley Drainage Hardhead/Squawfish Stream</i> Central Valley Drainage Hardhead/Squawfish Stream	CARA2443CA	None	None	GNR	SNR	
<i>Clarkia biloba ssp. brandegeae</i> Brandegee's clarkia	PDONA05053	None	None	G4G5T4	S4	4.2
<i>Cosumnoperla hypocreana</i> Cosumnes stripetail	IIPLE23020	None	None	G2	S2	
<i>Erethizon dorsatum</i> North American porcupine	AMAFJ01010	None	None	G5	S3	
<i>Horkelia parryi</i> Parry's horkelia	PDROS0W0C0	None	None	G2	S2	1B.2
<i>Lasionycteris noctivagans</i> silver-haired bat	AMACC02010	None	None	G3G4	S3S4	
<i>Packera layneae</i> Layne's ragwort	PDAST8H1V0	Threatened	Rare	G2	S2	1B.2
<i>Pekania pennanti</i> Fisher	AMAJF01020	None	None	G5	S2S3	SSC
<i>Rana boylei pop. 5</i> foothill yellow-legged frog - south Sierra DPS	AAABH01055	Endangered	Endangered	G3T2	S2	
<i>Riparia riparia</i> bank swallow	ABPAU08010	None	Threatened	G5	S3	
<i>Viburnum ellipticum</i> oval-leaved viburnum	PDCPR07080	None	None	G4G5	S3	2B.3

Record Count: 15



## CNPS Rare Plant Inventory

### Search Results

9 matches found. Click on scientific name for details

Search Criteria: , Quad is one of [3812067]

▲ SCIENTIFIC NAME	COMMON NAME	BLOOMING PERIOD	FED LIST	STATE LIST	CA RARE PLANT RANK
<a href="#">Arctostaphylos nissenana</a>	Nissenan manzanita	Feb-Mar	None	None	1B.2
<a href="#">Clarkia biloba ssp. brandegeae</a>	Brandegee's clarkia	(Mar)May-Jul	None	None	4.2
<a href="#">Claytonia parviflora ssp. grandiflora</a>	streambank spring beauty	Feb-May	None	None	4.2
<a href="#">Eriogonum tripodum</a>	tripod buckwheat	May-Jul	None	None	4.2
<a href="#">Hesperocyparis bakeri</a>	Baker cypress		None	None	4.2
<a href="#">Horkelia parryi</a>	Parry's horkelia	Apr-Sep	None	None	1B.2
<a href="#">Monardella candicans</a>	Sierra monardella	Apr-Jul	None	None	4.3
<a href="#">Packera layneae</a>	Layne's ragwort	Apr-Aug	FT	CR	1B.2
<a href="#">Viburnum ellipticum</a>	oval-leaved viburnum	May-Jun	None	None	2B.3

Showing 1 to 9 of 9 entries

[Go to top](#)

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2025. Rare Plant Inventory (online edition, v9.5.1). Website <https://www.rareplants.cnps.org> [accessed 21 March 2025].

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## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Sacramento Fish And Wildlife Office  
Federal Building  
2800 Cottage Way, Room W-2605  
Sacramento, CA 95825-1846  
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:  
Project Code: 2023-0085211  
Project Name: 7460 and 7444 Green Valley Road

May 23, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2))

(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

**Migratory Birds:** In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/birds/policies-and-regulations.php>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

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Attachment(s):

- Official Species List

## **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Sacramento Fish And Wildlife Office**

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

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## PROJECT SUMMARY

Project Code: 2023-0085211  
Project Name: 7460 and 7444 Green Valley Road  
Project Type: Mixed-Use Construction  
Project Description: Housing Overlay and Initial Study  
Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@38.7257292,-120.83924968943583,14z>



Counties: El Dorado County, California

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## ENDANGERED SPECIES ACT SPECIES

There is a total of 4 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## AMPHIBIANS

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/2891">https://ecos.fws.gov/ecp/species/2891</a>	Threatened
Foothill Yellow-legged Frog <i>Rana boylei</i> Population: South Sierra Distinct Population Segment (South Sierra DPS) No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5133">https://ecos.fws.gov/ecp/species/5133</a>	Proposed Endangered

## INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate

## FLOWERING PLANTS

NAME	STATUS
Layne's Butterweed <i>Senecio layneae</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4062">https://ecos.fws.gov/ecp/species/4062</a>	Threatened

## **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

---

## **IPAC USER CONTACT INFORMATION**

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Name: Kimberly Fuchs  
Address: 5170 Golden Foothill Parkway  
City: El Dorado Hills  
State: CA  
Zip: 95762  
Email: kfuchs@acorn-env.com  
Phone: 3022229102

---

Plants Observed at Green Valley Properties on May 7, 2023

<b>Common Name</b>	<b>Scientific Name</b>
maple (ornamental)	<i>Acer</i>
Birch (ornamental)	<i>Betula</i>
Mustard	<i>Brassica sp.</i>
Field bindweed	<i>Convolvulus arvensis</i>
Broad leaved filaree	<i>Erodium botrys</i>
California poppy	<i>Eschscholzia californica</i>
Fescue	<i>Festuca sp.</i>
Bedstraw	<i>Galium</i>
Iris	<i>Iris sp.</i>
California black walnut	<i>Juglans californica</i>
Canary grass	<i>Phalaris sp.</i>
American mistletoe	<i>Phoradendron leucarpum</i>
Gray pine	<i>Pinus sabiniana</i>
English plantain	<i>Plantago lanceolata</i>
Plum	<i>Prunus</i>
Blue oak	<i>Quercus douglasii</i>
California black oak	<i>Quercus kelloggii</i>
Interior live oak	<i>Quercus wislizeni</i>
Himalayan blackberry	<i>Rubus armeniacus</i>
Dock	<i>Rumex sp.</i>
Dandelion	<i>Taraxacum</i>
Tall sock-destroyer	<i>Torilis arvensis</i>
Poison-oak	<i>Toxicodendron diversilobum</i>
vetch	<i>Vicia</i>

Appendix C

Cultural Resources Investigation  
(Provided Under Separate Cover)

Appendix D  
Environmental Noise  
Assessment



## Environmental Noise Assessment

# 7460 and 7444 Green Valley Road Housing

City of Placerville, California

July 20, 2023

Project #230603

Prepared for:



**Acorn Environmental**

5170 Golden Foothill Parkway  
El Dorado Hills, CA 95762

Prepared by:

**Saxelby Acoustics LLC**

A blue ink signature of Luke Saxelby.

**Luke Saxelby, INCE Bd. Cert.**

**Principal Consultant**

**Board Certified, Institute of Noise Control Engineering (INCE)**



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Roseville, CA 95678

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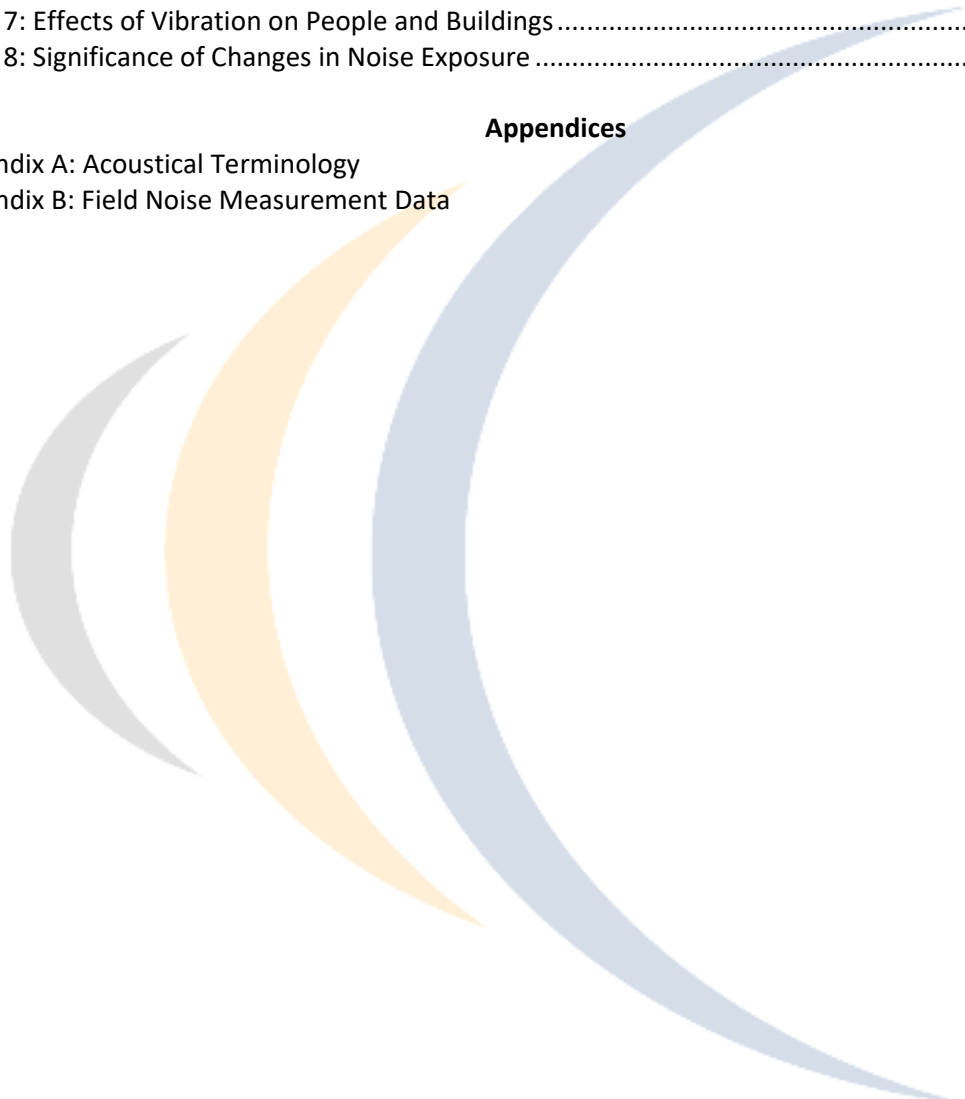
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Appendix A: Acoustical Terminology  
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## INTRODUCTION

The 7460 and 7444 Green Valley Road Housing project is located in the City of Placerville, California. The project is currently a vacant commercially zoned site. The analysis considers the potential rezoning of the site to R-5 residential which could result in the maximum development of 50 residential units.

**Figure 1** shows the project site plan. **Figure 2** shows an aerial photo of the project site.

## ENVIRONMENTAL SETTING

### BACKGROUND INFORMATION ON NOISE

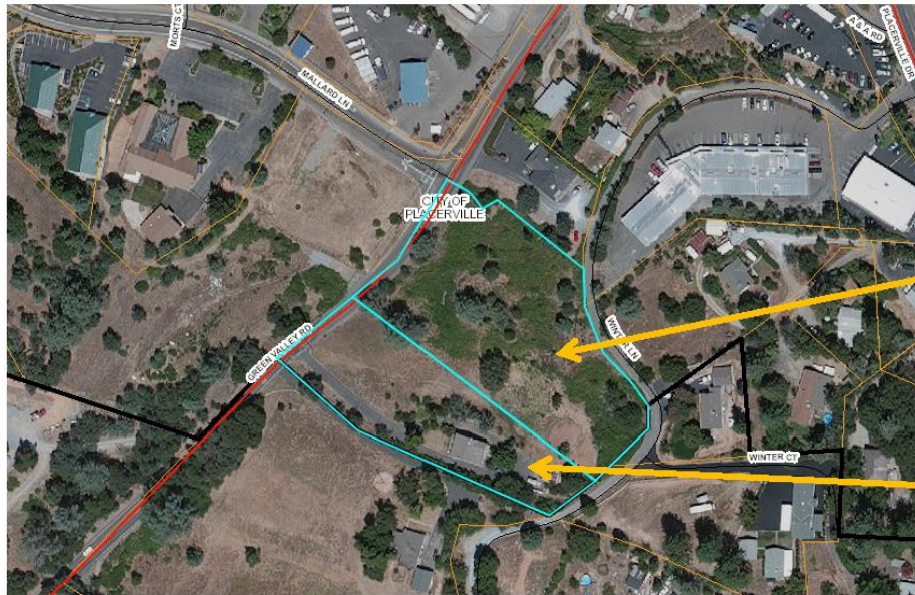
#### *Fundamentals of Acoustics*

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound and is expressed as cycles per second or Hertz (Hz).

Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

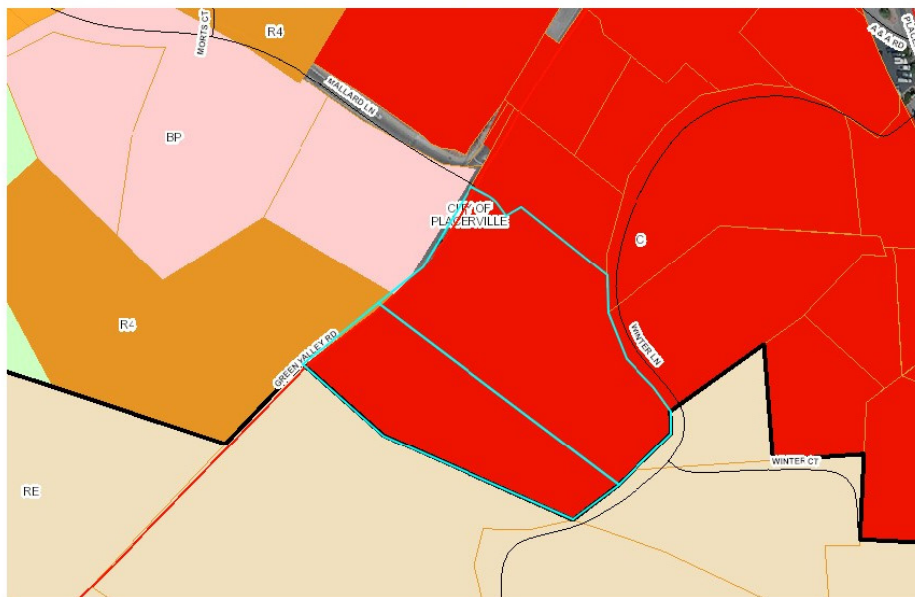
Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment.



APN 325-120-030  
7460 GREEN VALLEY ROAD  
2.11 AC

APN 325-160-008  
7444 GREEN VALLEY ROAD  
1.16 AC

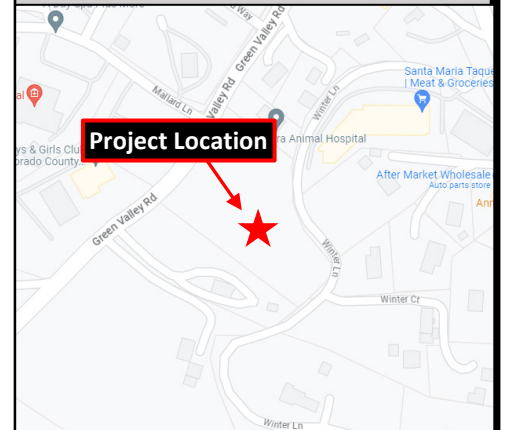


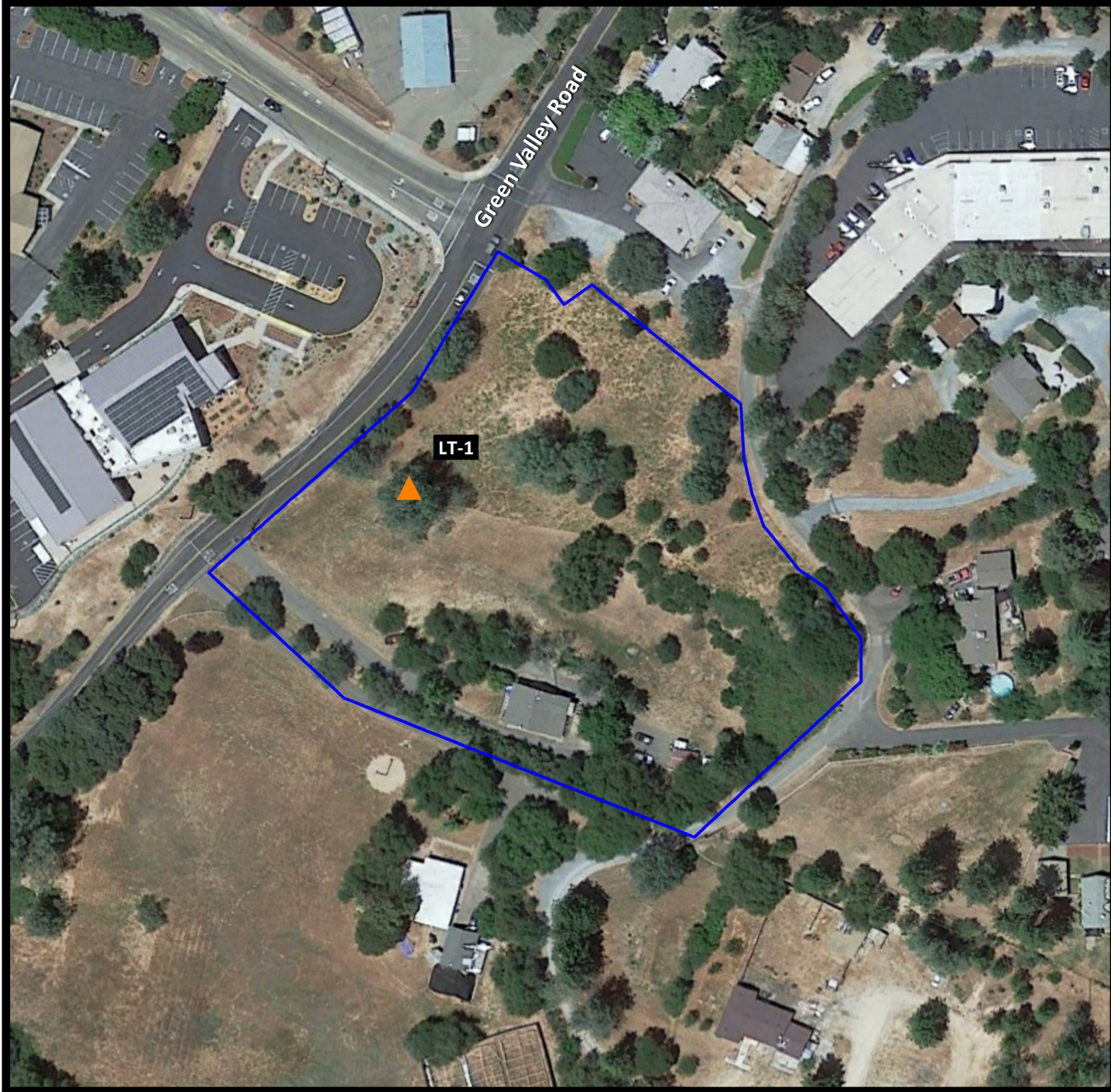
## 7460 & 7444 Green Valley Road Housing

City of Placerville, California

Figure 1

Project Site Plan





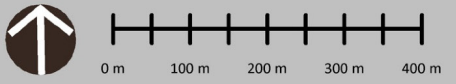


# 7460 and 7444 Green Valley Road

City of Placerville, California

Figure 2  
Noise Measurement Site

- Legend**
-  Project Site
  -  Noise Measurement - Long Term



Projection: UTM Zone 10 / WGS84 / meters  
Rev. Date: 07/12/2023



The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60-dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level ( $L_{eq}$ ), which corresponds to a steady-state A-weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The  $L_{eq}$  is the foundation of the composite noise descriptor,  $L_{dn}$ , and shows very good correlation with community response to noise.

The day/night average level (DNL or  $L_{dn}$ ) is based upon the average noise level over a 24-hour day, with a +10-decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because  $L_{dn}$  represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

**Table 1** lists several examples of the noise levels associated with common situations. **Appendix A** provides a summary of acoustical terms used in this report.

**TABLE 1: TYPICAL NOISE LEVELS**

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	--110--	Rock Band
Jet Fly-over at 300 m (1,000 ft.)	--100--	
Gas Lawn Mower at 1 m (3 ft.)	--90--	
Diesel Truck at 15 m (50 ft.), at 80 km/hr. (50 mph)	--80--	Food Blender at 1 m (3 ft.) Garbage Disposal at 1 m (3 ft.)
Noisy Urban Area, Daytime Gas Lawn Mower, 30 m (100 ft.)	--70--	Vacuum Cleaner at 3 m (10 ft.)
Commercial Area Heavy Traffic at 90 m (300 ft.)	--60--	Normal Speech at 1 m (3 ft.)
Quiet Urban Daytime	--50--	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	--40--	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	--30--	Library
Quiet Rural Nighttime	--20--	Bedroom at Night, Concert Hall (Background)
	--10--	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	--0--	Lowest Threshold of Human Hearing

Source: Caltrans, *Technical Noise Supplement, Traffic Noise Analysis Protocol*. September, 2013.

### ***Effects of Noise on People***

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning
- Physiological effects such as hearing loss or sudden startling

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it.

With regards to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1-dBA cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6-dB per doubling of distance from the source, depending on environmental conditions (i.e. atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres or a street with moving vehicles, would typically attenuate at a lower rate.

## EXISTING NOISE AND VIBRATION ENVIRONMENTS

### EXISTING NOISE RECEPTORS

Some land uses are considered more sensitive to noise than others. Land uses often associated with sensitive receptors generally include residences, schools, libraries, hospitals, and passive recreational areas. Sensitive noise receptors may also include threatened or endangered noise-sensitive biological species, although many jurisdictions have not adopted noise standards for wildlife areas. Noise sensitive land uses are typically given special attention in order to achieve protection from excessive noise.

Sensitivity is a function of noise exposure (in terms of both exposure duration and insulation from noise) and the types of activities involved. In the vicinity of the project site, sensitive land uses include existing single-family residential uses west, south, and east of the project site.

### EXISTING GENERAL AMBIENT NOISE LEVELS

The existing noise environment in the project area is primarily defined by traffic on Green Valley Road. To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted continuous (24-hr.) noise level measurements at one location on the project site. The noise measurement location is shown on **Figure 2**. A summary of the noise level measurement survey results is provided in **Table 2**. **Appendix B** contains the complete results of the noise monitoring.

The sound level meter was programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted  $L_{max}$ , represents the highest noise level measured. The average value, denoted  $L_{eq}$ , represents the energy average of all of the noise received by the sound level meter microphone during the monitoring period. The median value, denoted  $L_{50}$ , represents the sound level exceeded 50 percent of the time during the monitoring period.

A Larson Davis Laboratories (LDL) model 820 integrating sound level meter was used for the ambient noise level measurement survey. The meter was calibrated before and after use with a CAL200 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

**TABLE 2: SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA**

Location	Date	$L_{dn}$	Daytime $L_{eq}$	Daytime $L_{50}$	Daytime $L_{max}$	Nighttime $L_{eq}$	Nighttime $L_{50}$	Nighttime $L_{max}$
LT-1: 75 ft. to CL of Green Valley Road	6/23/23	56	55	48	75	47	37	70
	6/24/23	56	54	48	74	49	39	70
	6/25/23	55	53	44	73	47	38	68

- All values shown in dBA
- Daytime hours: 7:00 a.m. to 10:00 p.m.
- Nighttime Hours: 10:00 p.m. to 7:00 a.m.
- Source: Saxelby Acoustics, 2023.

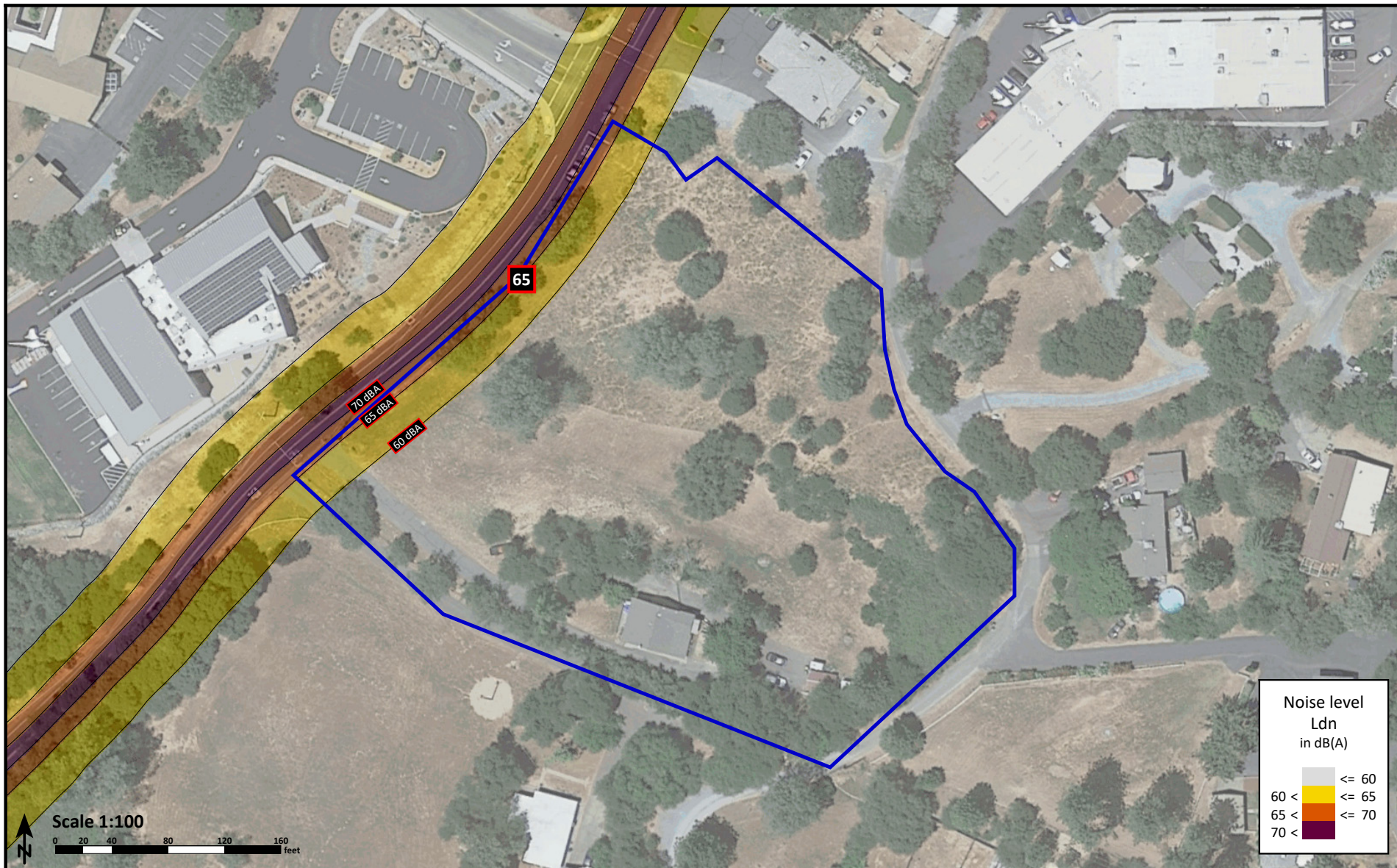
## **FUTURE TRAFFIC NOISE ENVIRONMENT AT OFF-SITE RECEPTORS**

### **OFF-SITE TRAFFIC NOISE IMPACT ASSESSMENT METHODOLOGY**

To assess noise impacts due to project-related traffic increases on the local roadway network, Saxelby Acoustics obtained approximate existing roadway volumes for Green Valley Road from the City of Placerville Engineering Department. The existing volumes are estimated to be approximately 5,000 vehicles per day for Green Valley Road west of Mallard Lane. Saxelby Acoustics estimates that the proposed project would generate a maximum of 280 new trips per day. This would result in a noise level increase of 0.2 dBA at the sensitive receptors along Green Valley Road.

### **EVALUATION OF FUTURE TRANSPORTATION NOISE ON PROJECT SITE**

Saxelby Acoustics used the SoundPLAN noise model to calculate traffic noise levels at the proposed residential uses due to traffic on Green Valley Road. Inputs to the SoundPLAN noise model include topography, existing structures, roadway elevations, and the proposed building pad elevations. It was estimated that existing noise levels would increase by +1 dBA based upon an assumed 1% per year increase in traffic volumes on Green Valley Road. The results of this analysis are shown graphically on **Figure 3**.



## 7460 and 7444 Green Valley Road

City of Placerville, California

Figure 3  
Future Transportation Noise Levels (dB(A) Ldn)

- Legend**
- Project Site
  - 65 Noise Level Point

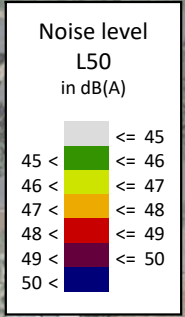
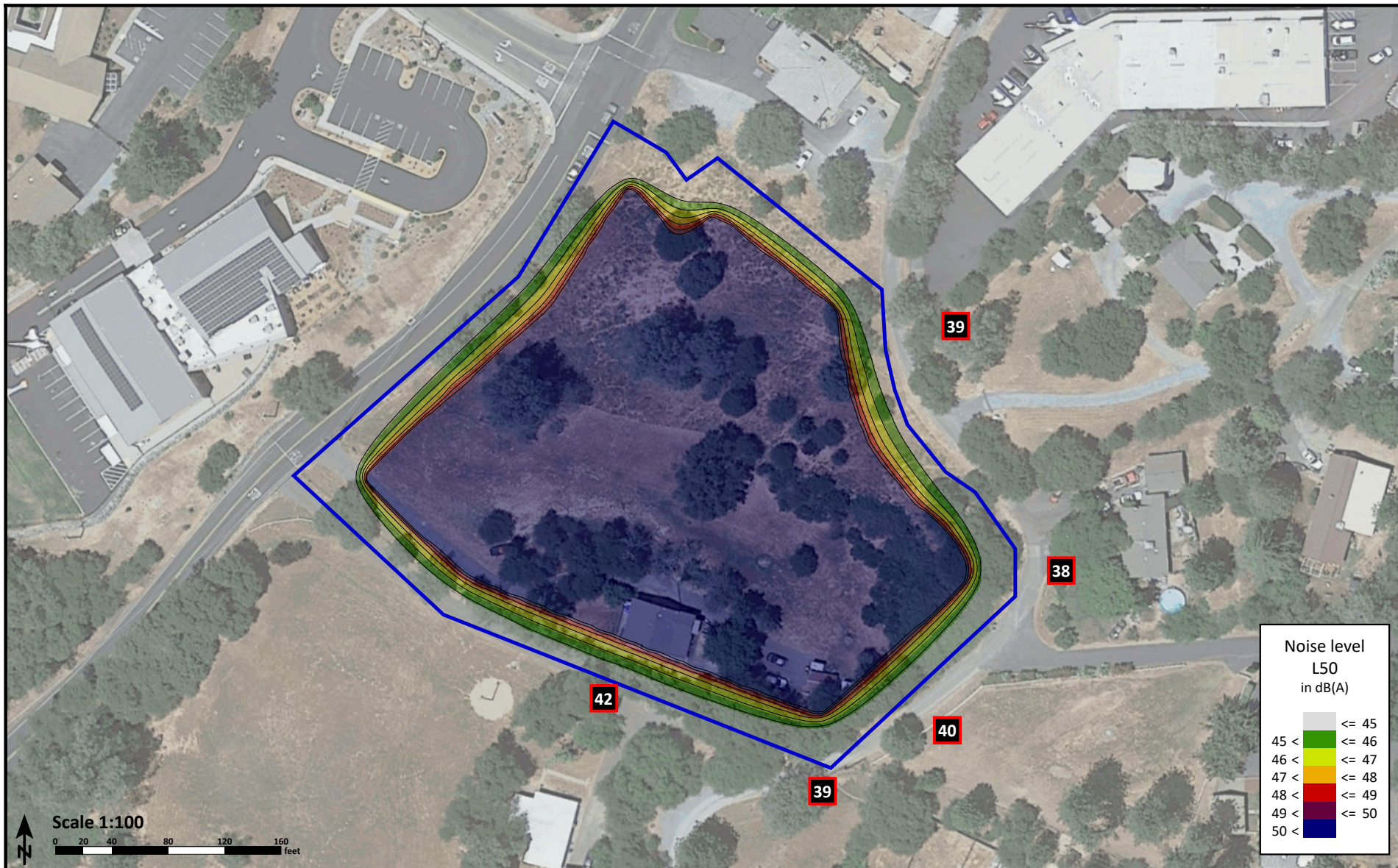


## EVALUATION OF PROJECT OPERATIONAL NOISE ON EXISTING SENSITIVE RECEPTORS

Project site traffic circulation and residential HVAC noise are considered to be the primary noise sources for this project. The following is a list of assumptions used for the noise modeling. The data used is based upon a combination of manufacturer's provided data and Saxelby Acoustics data from similar operations.

- On-Site Circulation:** Saxelby Acoustics estimated that the project could generate 28 trips in the peak hour. Saxelby Acoustics assumed that 1-2 of these trips could be heavy trucks to account for trash collection or deliveries. Parking lot movements are predicted to generate a sound exposure level (SEL) of 71 dBA SEL at 50 feet for cars and 85 dBA SEL at 50 feet for trucks. Saxelby Acoustics data.
- HVAC:** Assumes a single three-ton HVAC unit for each residential unit for a total of 50 condenser units. The units were assumed to have a sound level rating of 70 dBA (manufacturer's data). Steady state HVAC noise does not fluctuate greatly, so exceedances of the City's maximum noise level standard are not predicted to occur.

Saxelby Acoustics used the SoundPLAN noise prediction model. Inputs to the model included sound power levels for the proposed amenities, existing and proposed buildings, terrain type, and locations of sensitive receptors. These predictions are made in accordance with International Organization for Standardization (ISO) standard 9613-2:1996 (Acoustics – Attenuation of sound during propagation outdoors). ISO 9613 is the most commonly used method for calculating exterior noise propagation. **Figure 4** shows the noise level contours resulting from operation of the project.



## 7460 and 7444 Green Valley Road

City of Placerville, California

Figure 4  
Operational Noise Levels (dB(A) L50)

- Legend**
- Project Site
  - 39 Noise Level Point



## CONSTRUCTION NOISE ENVIRONMENT

During the construction of the proposed project, noise from construction activities would temporarily add to the noise environment in the project vicinity. As shown in **Table 3**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dB at a distance of 50 feet.

**TABLE 3: CONSTRUCTION EQUIPMENT NOISE**

Type of Equipment	Maximum Level, dBA at 50 feet
Auger Drill Rig	84
Backhoe	78
Compactor	83
Compressor (air)	78
Concrete Saw	90
Dozer	82
Dump Truck	76
Excavator	81
Generator	81
Jackhammer	89
Pneumatic Tools	85

Source: Roadway Construction Noise Model User's Guide. Federal Highway Administration. FHWA-HEP-05-054. January 2006.

## CONSTRUCTION VIBRATION ENVIRONMENT

The primary vibration-generating activities associated with the proposed project would occur during construction when activities such as grading, utilities placement, and parking lot construction occur. **Table 4** shows the typical vibration levels produced by construction equipment.

**TABLE 4: VIBRATION LEVELS FOR VARIOUS CONSTRUCTION EQUIPMENT**

Type of Equipment	Peak Particle Velocity at 25 feet (inches/second)	Peak Particle Velocity at 50 feet (inches/second)	Peak Particle Velocity at 100 feet (inches/second)
Large Bulldozer	0.089	0.031	0.011
Loaded Trucks	0.076	0.027	0.010
Small Bulldozer	0.003	0.001	0.000
Auger/drill Rigs	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Vibratory Hammer	0.070	0.025	0.009
Vibratory Compactor/roller	0.210 (Less than 0.20 at 26 feet)	0.074	0.026

Source: Transit Noise and Vibration Impact Assessment Guidelines. Federal Transit Administration. May 2006.

## REGULATORY CONTEXT

### FEDERAL

There are no federal regulations which apply to the proposed project.

### STATE

#### ***California Environmental Quality Act***

The California Environmental Quality Act (CEQA) Guidelines, Appendix G, indicate that a significant noise impact may occur if a project exposes persons to noise or vibration levels in excess of local general plans or noise ordinance standards, or cause a substantial permanent or temporary increase in ambient noise levels. CEQA standards are discussed more below under the Thresholds of Significance section.

#### ***State Building Code, Title 24, Part 2 of the State of California Code of Regulations***

The State Building Code, Title 24, Part 2 of the State of California Code of Regulations, establishes uniform minimum noise insulation performance standards to protect persons within new buildings which house people, including hotels, motels, dormitories, apartment houses, and dwellings other than single-family dwellings. Title 24 mandates that interior noise levels attributable to exterior sources shall not exceed 45 dB  $L_{dn}$  or CNEL in any habitable room. Title 24 also mandates that for structures containing noise-sensitive uses to be located where the  $L_{dn}$  or CNEL exceeds 60 dB, an acoustical analysis must be prepared to identify mechanisms for limiting exterior noise to the prescribed allowable interior levels. If the interior allowable noise levels are met by requiring that windows be kept closed, the design for the structure must also specify a ventilation or air conditioning system to provide a habitable interior environment.

### LOCAL

#### ***City of Placerville General Plan***

The City of Placerville General Plan outlines goals and policies to protect residents from excessive noise exposure. The relevant criteria are reproduced below:

Goal I: To protect the residents of Placerville from the harmful effects of exposure to excessive noise.

1. The City shall attempt, insofar as possible, to protect areas within the city where the present noise environment is considered acceptable.
2. Areas within Placerville exposed to existing or projected exterior noise levels exceeding 60dB  $L_{dn}$  shall be designated as noise-impacted areas.
3. Areas within Placerville shall be designated as noise-impacted if exposed to existing or projected exterior noise levels exceeding the performance standards in Table II-1.
4. New development of residential or other noise-sensitive land uses will not be permitted in noise impacted areas unless effective mitigation measures are incorporated into the project design to reduce noise levels to:

a. 60 dB Ldn or less in outdoor activity areas, and interior noise levels to 45 dB Ldn or less, where the noise source is preempted from local control (i.e. traffic on public roadways, railroads and airports). In areas where it is not possible to reduce exterior noise levels to 60 dB Ldn or less using a practical application of the best available noise-reduction technology, an exterior noise level of up to 65 dB Ldn will be allowed. Under no circumstances will interior noise levels be permitted to exceed 45 dB Ldn with the windows and doors closed.

b. Achieve compliance with the standards in Subsection 4.a. and with the performance standards set out in Table II-1, where the noise source is subject to local control (i.e., nontraffic related).

5. When industrial, commercial, or other land uses, including locally-regulated noise sources, are proposed for areas containing noise-sensitive land uses, noise levels generated by the proposed use shall not exceed the standards in Subsection 4.a. or the performance standards set out in Table II-1.

6. Where the development of residential or other noise-sensitive land use is proposed for a noise impacted area, an acoustical analysis shall be prepared at the applicant's expense. The acoustical analysis shall:

a. Be prepared by a qualified acoustical consultant experienced in the fields of environmental noise assessment and architectural acoustics.

b. Include representative noise level measurements with sufficient sampling periods and locations to adequately describe local conditions.

c. Include estimated noise levels in terms of Ldn and/or the standards in Table II-1 for existing and projected future noise levels, with a comparison made to the adopted policies of this subsection.

d. Include recommendations for appropriate mitigation to achieve compliance with the adopted policies of this subsection. Where the noise source in question consists of intermittent single events, the report must address the effects of maximum noise levels in sleeping rooms in terms of possible sleep disturbance.

e. Include estimates of noise exposure after the prescribed mitigation measures have been implemented. If compliance with the policies of this subsection will not be achieved, a rationale for acceptance of the project must be provided.

7. Noise level criteria applied to land uses other than residential or other noise-sensitive uses shall be consistent with recommendations of the California Office of Noise Control (see Table II-2).

8. The City shall enforce the Noise Insulation Standards of Title 24 of the California Administrative Code and Chapter 35 of the Uniform Building Code concerning the construction of new multiple occupancy dwellings such as hotels, apartments, and condominiums.

Noise created by non-preempted noise sources\* associated with new projects or developments shall be controlled so as not to exceed the noise level standards set forth below as measured at any affected residential land use situated in either the incorporated or unincorporated areas. New residential development shall not be allowed where the ambient noise level due to non-preempted noise sources will exceed the noise level standards set forth below.

**TABLE 5: NOISE LEVEL PERFORMANCE STANDARDS FOR NEW PROJECTS AND DEVELOPMENTS**





Category	Cumulative Number of minutes in any one-hour time period	Exterior Noise Level Standards dBA	
		Daytime (7:00 a.m. to 10:00 p.m.)	Nighttime (10:00 p.m. to 7:00 a.m.)
1	30	50	45
2	15	55	50
3	5	60	55
4	1	65	60
5	0	70	65

Source: Table II-2 of the City of Placerville General Plan Noise Element

\*A preempted noise source is one that is regulated by the State or Federal Government at the source such as automobiles, railroads, and airports.

Each of the noise level standards specified above shall be reduced by five dBA for simple tone noises, noises consisting primarily of speech or music, or for recurring impulsive noises.

**TABLE 6: CITY OF PLACERVILLE LAND USE COMPATIBILITY TABLE**

LAND USE CATEGORY	COMMUNITY NOISE EXPOSURE L <sub>dn</sub> OR CNEL, dB						
	55	60	65	70	75	80	
Residential – Low Density Single Family, Duplex, Mobile Homes							<p><b>Interpretation</b></p> <p> <b>Normally Acceptable</b> Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.</p> <p> <b>Conditionally Acceptable</b> New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.</p> <p> <b>Normally Unacceptable</b> New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.</p> <p> <b>Clearly Unacceptable</b> New construction or development should generally not be undertaken.</p>
Residential – Multi-Family							
Transient Lodging - Motels, Hotels							
Schools, Libraries, Churches, Hospitals, Nursing Homes							
Auditoriums, Concert, Halls, Amphitheatres							
Sports Arena, Outdoor Spectator Sports							
Playgrounds, Neighborhood Parks							
Golf Courses, Riding Stables, Water Recreation, Cemeteries							
Office Buildings, Business Commercial and Professional							
Industrial, Manufacturing, Utilities, Agriculture							
Source: California Office of Noise Control							

Source: Table II-2 of the City of Placerville General Plan Noise Element

## CRITERIA FOR ACCEPTABLE VIBRATION

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to the vibration will depend on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration measures in terms of peak particle velocities in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of peak particle velocities.

Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. **Table 7**, which was developed by Caltrans, shows the vibration levels which would normally be required to result in damage to structures. The vibration levels are presented in terms of peak particle velocity in inches per second.

**Table 7** indicates that the threshold for architectural damage to structures is 0.20 in/sec p.p.v. A threshold of 0.20 in/sec p.p.v. is considered to be a reasonable threshold for short-term construction projects.

**TABLE 7: EFFECTS OF VIBRATION ON PEOPLE AND BUILDINGS**

Peak Particle Velocity		Human Reaction	Effect on Buildings
mm/second	in/second		
0.15-0.30	0.006-0.019	Threshold of perception; possibility of intrusion	Vibrations unlikely to cause damage of any type
2.0	0.08	Vibrations readily perceptible	Recommended upper level of the vibration to which ruins and ancient monuments should be subjected
2.5	0.10	Level at which continuous vibrations begin to annoy people	Virtually no risk of “architectural” damage to normal buildings
5.0	0.20	Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations)	Threshold at which there is a risk of “architectural” damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize “architectural” damage
10-15	0.4-0.6	Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges	Vibrations at a greater level than normally expected from traffic, but would cause “architectural” damage and possibly minor structural damage

Source: *Transportation Related Earthborne Vibrations*. Caltrans. TAV-02-01-R9601. February 20, 2002.

## IMPACTS AND MITIGATION MEASURES

### THRESHOLDS OF SIGNIFICANCE

Appendix G of the CEQA Guidelines states that a project would normally be considered to result in significant noise impacts if noise levels conflict with adopted environmental standards or plans or if noise generated by the project would substantially increase existing noise levels at sensitive receivers on a permanent or temporary basis. Significance criteria for noise impacts are drawn from CEQA Guidelines Appendix G (Items XI [a-c]).

Would the project:

- a. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
- b. Generate excessive groundborne vibration or groundborne noise levels?
- c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

The proposed project is not located within two miles of a public or private airport, therefore item “c” is not discussed any further in this study.

### ***Noise Level Increase Criteria for Long-Term Project-Related Noise Level Increases***

The California Environmental Quality Act (CEQA) guidelines define a significant impact of a project if it “increases substantially the ambient noise levels for adjoining areas.” Generally, a project may have a significant effect on the environment if it will substantially increase the ambient noise levels for adjoining areas or expose people to severe noise levels. In practice, more specific professional standards have been developed. These standards state that a noise impact may be considered significant if it would generate noise that would conflict with local project criteria or ordinances, or substantially increase noise levels at noise sensitive land uses. The potential increase in traffic noise from the project is a factor in determining significance. Research into the human perception of changes in sound level indicates the following:

- A 3-dB change is barely perceptible,
- A 5-dB change is clearly perceptible, and
- A 10-dB change is perceived as being twice or half as loud.

A limitation of using a single noise level increase value to evaluate noise impacts is that it fails to account for pre-project noise conditions. **Table 8** is based upon recommendations made by the Federal Interagency Committee on Noise (FICON) to provide guidance in the assessment of changes in ambient noise levels resulting from aircraft operations. The recommendations are based upon studies that relate aircraft noise levels to the percentage of persons highly annoyed by the noise. Although the FICON recommendations were specifically developed to assess aircraft noise impacts, it has been accepted that they are applicable to all sources of noise described in terms of cumulative noise exposure metrics such as the  $L_{dn}$ .

**TABLE 8: SIGNIFICANCE OF CHANGES IN NOISE EXPOSURE**

Ambient Noise Level Without Project, $L_{dn}$	Increase Required for Significant Impact
<60 dB	+5.0 dB or more
60-65 dB	+3.0 dB or more
>65 dB	+1.5 dB or more

Source: Federal Interagency Committee on Noise (FICON).

Based on the **Table 8** data, an increase in the traffic noise level of 5 dB or more would be significant where the pre-project noise levels are less than 60 dB  $L_{dn}$ , or 3 dB or more where existing noise levels are between 60 to 65 dB  $L_{dn}$ . Extending this concept to higher noise levels, an increase in the traffic noise level of 1.5 dB or more may be significant where the pre-project traffic noise level exceeds 65 dB  $L_{dn}$ . The rationale for the **Table 8** criteria is that, as ambient noise levels increase, a smaller increase in noise resulting from a project is sufficient to cause annoyance.

**PROJECT-SPECIFIC IMPACTS AND MITIGATION MEASURES**

**Impact 1:** *Would the project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?*

**Traffic Noise Increases at Off-Site Receptors**

The FICON guidelines specify criteria to determine the significance of traffic noise impacts. Where existing traffic noise levels are greater than 65 dB  $L_{dn}$ , a +1.5 dB  $L_{dn}$  increase in roadway noise levels will be considered significant. The maximum increase in traffic noise at the nearest sensitive receptor is predicted to be 0.2 dBA. Therefore, impacts resulting from increased traffic noise would be considered **less-than-significant**, and no mitigation is required.

**Operational Noise at Existing Sensitive Receptors**

As shown on **Figure 4**, the project is predicted to expose nearby residences to noise levels up to 42 dBA,  $L_{50}$  during both daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) hours. The predicted project noise levels would meet the City of Placerville noise standard for non-transportation noise sources of 45 dBA,  $L_{50}$ .

It should be noted that maximum noise levels generated by the residential HVAC units and on-site vehicle circulation are predicted to be 20 dBA, or less, than the median ( $L_{50}$ ) values. City of Placerville maximum ( $L_{max}$ ) nighttime noise level standard is 65 dBA  $L_{max}$ , which is 20 dBA higher than the  $L_{50}$  standard. Therefore, where average noise levels are in compliance with the  $L_{50}$  standards, maximum noise levels will also meet the County’s standards. Based upon the predicted average noise levels of 42 dBA, the maximum noise levels will be 62 dBA and comply with the City maximum standards.

This is a **less-than-significant** impact, and no mitigation is required.

### **Construction Noise**

During the construction phases of the project, noise from construction activities would add to the noise environment in the immediate project vicinity. As indicated in **Table 3**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dBA  $L_{max}$  at a distance of 50 feet. Construction activities would also be temporary in nature and are anticipated to occur during normal daytime working hours.

Noise would also be generated during the construction phase by increased truck traffic on area roadways. A project-generated noise source would be truck traffic associated with transport of heavy materials and equipment to and from the construction site. This noise increase would be of short duration and would occur during daytime hours.

Noise from localized point sources (such as construction sites) typically decreases by approximately 6 dBA with each doubling of distance from source to receptor. Given this noise attenuation rate and assuming no noise shielding from either natural or human-made features (e.g., trees, buildings, fences), outdoor receptors within approximately 1,600 feet of construction sites could experience maximum instantaneous noise levels of greater than 60 dBA when on-site construction-related noise levels exceed approximately 90 dBA at the boundary of the construction site. As previously discussed, nearby noise-sensitive receptors consist predominantly of residential dwellings surrounding the project site.

During development of the proposed project, construction activities occurring during the more noise-sensitive late evening and nighttime hours (i.e., 7:00 p.m. to 7:00 a.m.), weekends, and holidays could result in increased levels of annoyance and potential sleep disruption for occupants of nearby existing noise sensitive land uses. Additionally, there are several residential uses directly adjacent to the project site which may be subject to construction noise. As a result, noise-generating construction activities would be considered to have a **potentially significant** short-term impact.

### **Transportation Noise on Project Site (Non-CEQA Issue)**

Compliance with City's standards on new noise-sensitive receptors is not a CEQA consideration. However, this information is provided here so that a determination can be made regarding the ability of the proposed project to meet the requirements of the City of Placerville for exterior and interior noise levels at new sensitive uses proposed under the project.

As shown on **Figure 3**, the project site is predicted to be exposed to exterior transportation noise levels up to approximately 65 dBA  $L_{dn}$ . This would fall into the "Conditionally Acceptable" land use category in the City of Placerville General Plan.

The City of Placerville municipal code establishes an exterior noise level standard of 60 dBA  $L_{dn}$  for outdoor activity areas. Outdoor activity areas should be located outside of the 60 dBA  $L_{dn}$  noise level contour shown on **Figure 3** to achieve compliance with this criterion. The City also establishes an interior noise level standard of 45 dBA  $L_{dn}$ . Modern building construction methods typically yield an exterior-to-interior noise level reduction of 25 dBA<sup>1</sup>. Therefore, where exterior noise levels are 70 dBA  $L_{dn}$ , or less, no additional interior noise control measures are typically required. For this project, exterior noise levels are predicted to be up to 65 dBA  $L_{dn}$ ,

<sup>1</sup> Assuming standard construction with a minimum STC rating of 29 for exterior window assemblies

resulting in an interior noise level of 40 dBA  $L_{dn}$ . Therefore, standard construction is predicted to be sufficient to meet the interior 45 dBA  $L_{dn}$  noise level standard.

Mitigation Measures

- 1(a) The City shall establish the following as conditions of approval for any permit that results in the use of construction equipment:
- Construction shall be limited to between 7:00 a.m. to 7:00 p.m. Monday through Friday and between 8:00 a.m. and 5:00 p.m. on Saturday, and shall be prohibited on Sunday and federal/state-recognized holidays unless approved in advance by the City if required to meet project schedule.
  - All construction equipment powered by internal combustion engines shall be properly muffled and maintained.
  - A sign, legible at a distance of 50 feet, shall be posted at the project construction site providing a contact name and a telephone number where residents can inquire about the construction process and register complaints. This sign shall indicate the dates and duration of construction activities. In conjunction with this required posting, a noise disturbance coordinator will be identified to address construction noise concerns.
  - Quiet construction equipment, particularly air compressors, are to be selected whenever possible.
  - All stationary noise-generating construction equipment such as generators or air compressors are to be located as far as is practical from existing residences. In addition, the project contractor shall place such stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the project site.
  - Unnecessary idling of internal combustion engines is prohibited.
  - The construction contractor shall, to the maximum extent practical, locate on-site equipment staging areas to maximize the distance between construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction.

*Timing/Implementation:* Throughout all stages of construction

*Enforcement/Monitoring:* City of Placerville Development Services Department

Implementation of mitigation measures 1(a) would help to reduce construction-generated noise levels. With mitigation, this impact would be considered **less-than-significant**.

**Impact 2:      *Would the project generate excessive groundborne vibration or groundborne noise levels?***

Construction vibration impacts include human annoyance and building structural damage. Human annoyance occurs when construction vibration rises significantly above the threshold of perception. Building damage can take the form of cosmetic or structural.

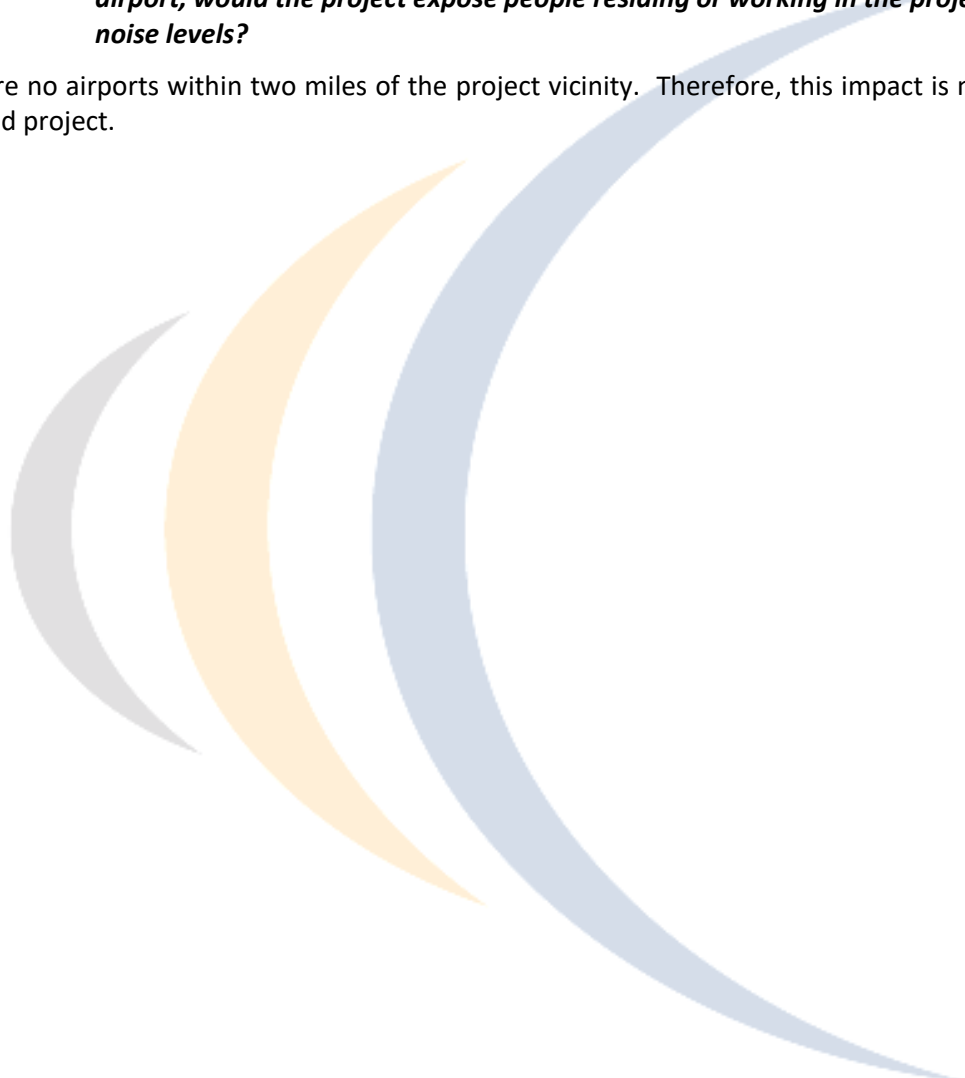
The **Table 4** data indicate that construction vibration levels anticipated for the project are less than the 0.2 in/sec threshold at distances of 26 feet. Sensitive receptors which could be impacted by construction related vibrations, especially vibratory compactors/rollers, are located approximately 26 feet, or further, from typical construction activities. At these distances construction vibrations are not predicted to exceed acceptable

levels. Additionally, construction activities would be temporary in nature and would likely occur during normal daytime working hours.

This is a **less-than-significant** impact and no mitigation is required.

**Impact 3:** *For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?*

There are no airports within two miles of the project vicinity. Therefore, this impact is not applicable to the proposed project.



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## Appendix A: Acoustical Terminology

<b>Acoustics</b>	The science of sound.
<b>Ambient Noise</b>	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
<b>ASTC</b>	Apparent Sound Transmission Class. Similar to STC but includes sound from flanking paths and correct for room reverberation. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
<b>Attenuation</b>	The reduction of an acoustic signal.
<b>A-Weighting</b>	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
<b>Decibel or dB</b>	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
<b>CNEL</b>	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by +5 dBA and nighttime hours weighted by +10 dBA.
<b>DNL</b>	See definition of Ldn.
<b>IIC</b>	Impact Insulation Class. An integer-number rating of how well a building floor attenuates impact sounds, such as footsteps. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
<b>Frequency</b>	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz (Hz).
<b>Ldn</b>	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
<b>Leq</b>	Equivalent or energy-averaged sound level.
<b>Lmax</b>	The highest root-mean-square (RMS) sound level measured over a given period of time.
<b>L(n)</b>	The sound level exceeded a described percentile over a measurement period. For instance, an hourly L50 is the sound level exceeded 50% of the time during the one-hour period.
<b>Loudness</b>	A subjective term for the sensation of the magnitude of sound.
<b>NIC</b>	Noise Isolation Class. A rating of the noise reduction between two spaces. Similar to STC but includes sound from flanking paths and no correction for room reverberation.
<b>NNIC</b>	Normalized Noise Isolation Class. Similar to NIC but includes a correction for room reverberation.
<b>Noise</b>	Unwanted sound.
<b>NRC</b>	Noise Reduction Coefficient. NRC is a single-number rating of the sound-absorption of a material equal to the arithmetic mean of the sound-absorption coefficients in the 250, 500, 1000, and 2,000 Hz octave frequency bands rounded to the nearest multiple of 0.05. It is a representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption.
<b>RT60</b>	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
<b>Sabin</b>	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 Sabin.
<b>SEL</b>	Sound Exposure Level. SEL is a rating, in decibels, of a discrete event, such as an aircraft flyover or train pass by, that compresses the total sound energy into a one-second event.
<b>SPC</b>	Speech Privacy Class. SPC is a method of rating speech privacy in buildings. It is designed to measure the degree of speech privacy provided by a closed room, indicating the degree to which conversations occurring within are kept private from listeners outside the room.
<b>STC</b>	Sound Transmission Class. STC is an integer rating of how well a building partition attenuates airborne sound. It is widely used to rate interior partitions, ceilings/floors, doors, windows and exterior wall configurations. The STC rating is typically used to rate the sound transmission of a specific building element when tested in laboratory conditions where flanking paths around the assembly don't exist. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic.
<b>Threshold of Hearing</b>	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
<b>Threshold of Pain</b>	Approximately 120 dB above the threshold of hearing.
<b>Impulsive</b>	Sound of short duration, usually less than one second, with an abrupt onset and rapid decay.
<b>Simple Tone</b>	Any sound which can be judged as audible as a single pitch or set of single pitches.

## Appendix B: Continuous Ambient Noise Measurement Results



**Appendix B1a: Continuous Noise Monitoring Results**

Site: LT-1

Project: 7460 & 7444 Green Valley Road Housing

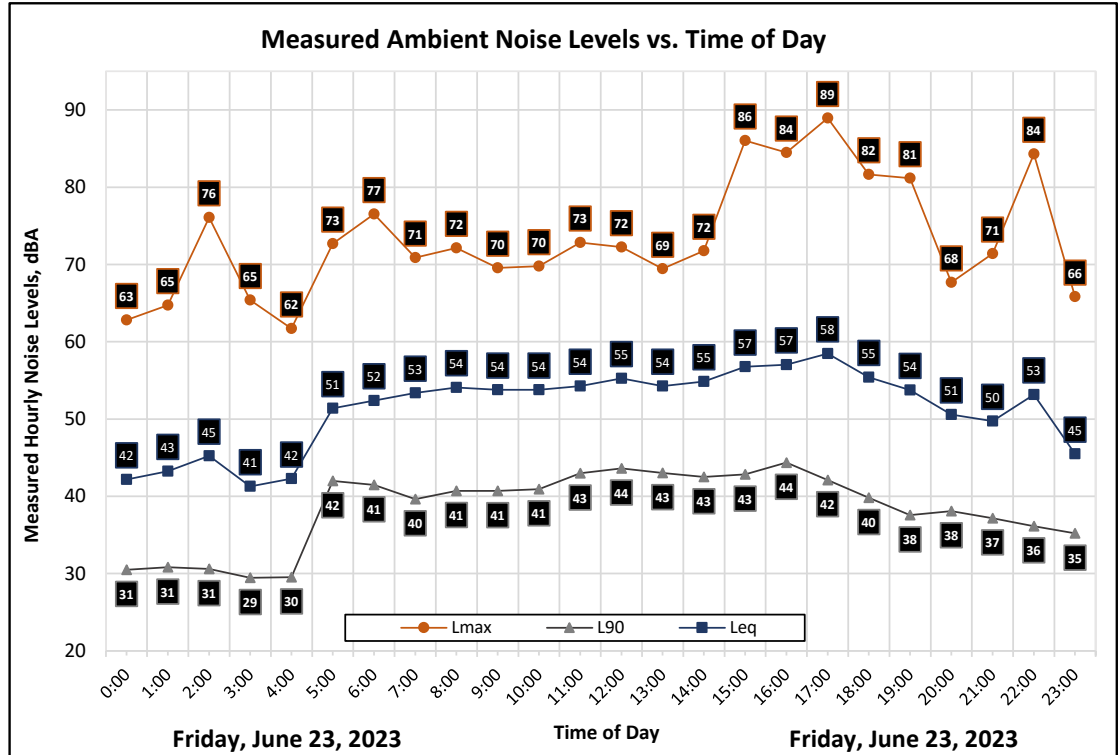
Meter: LDL 820-4

Location: Western Project Boundary

Calibrator: CAL200

Coordinates: (38.7257844, -120.8394374)

Date	Time	Measured Level, dBA			
		L <sub>eq</sub>	L <sub>max</sub>	L <sub>50</sub>	L <sub>90</sub>
Friday, June 23, 2023	0:00	42	63	33	31
Friday, June 23, 2023	1:00	43	65	34	31
Friday, June 23, 2023	2:00	45	76	34	31
Friday, June 23, 2023	3:00	41	65	33	29
Friday, June 23, 2023	4:00	42	62	33	30
Friday, June 23, 2023	5:00	51	73	46	42
Friday, June 23, 2023	6:00	52	77	45	41
Friday, June 23, 2023	7:00	53	71	45	40
Friday, June 23, 2023	8:00	54	72	46	41
Friday, June 23, 2023	9:00	54	70	49	41
Friday, June 23, 2023	10:00	54	70	49	41
Friday, June 23, 2023	11:00	54	73	50	43
Friday, June 23, 2023	12:00	55	72	51	44
Friday, June 23, 2023	13:00	54	69	51	43
Friday, June 23, 2023	14:00	55	72	51	43
Friday, June 23, 2023	15:00	57	86	50	43
Friday, June 23, 2023	16:00	57	84	53	44
Friday, June 23, 2023	17:00	58	89	50	42
Friday, June 23, 2023	18:00	55	82	47	40
Friday, June 23, 2023	19:00	54	81	44	38
Friday, June 23, 2023	20:00	51	68	43	38
Friday, June 23, 2023	21:00	50	71	41	37
Friday, June 23, 2023	22:00	53	84	39	36
Friday, June 23, 2023	23:00	45	66	38	35



Statistics	Leq	Lmax	L50	L90
Day Average	55	75	48	41
Night Average	47	70	37	34
Day Low	50	68	41	37
Day High	58	89	53	44
Night Low	41	62	33	29
Night High	52	84	46	42
Ldn	56	Day %		91
CNEL	56	Night %		9



**Appendix B1b: Continuous Noise Monitoring Results**

Site: LT-1

Project: 7460 & 7444 Green Valley Road Housing

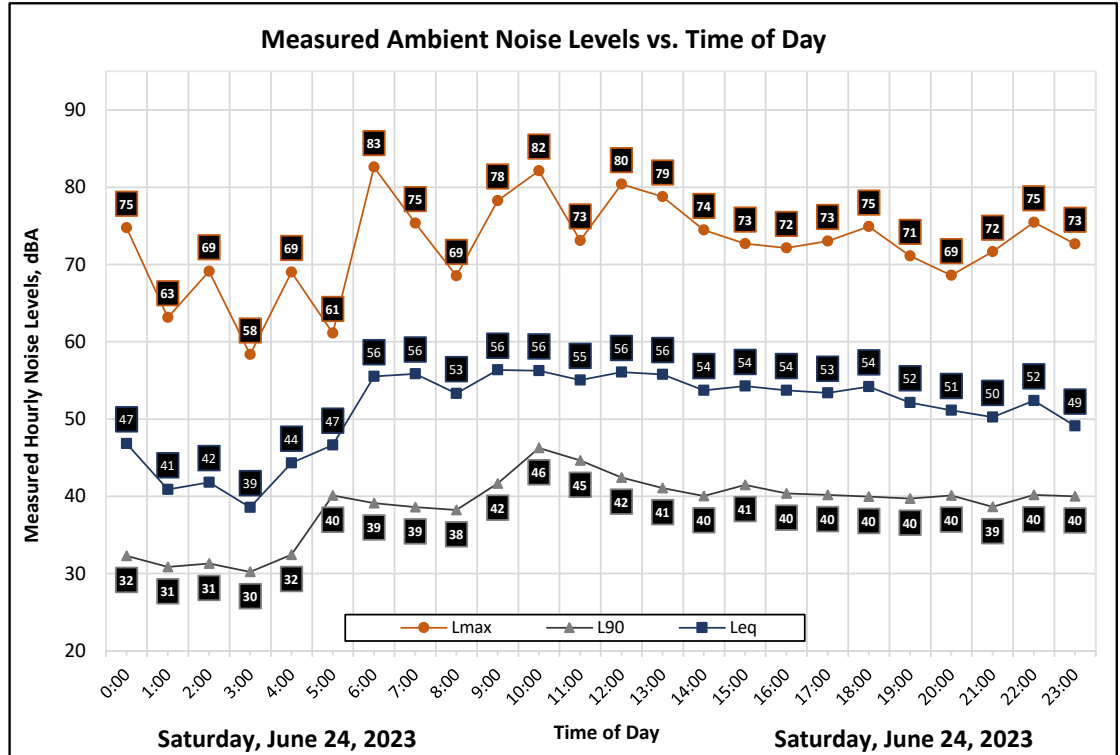
Meter: LDL 820-4

Location: Western Project Boundary

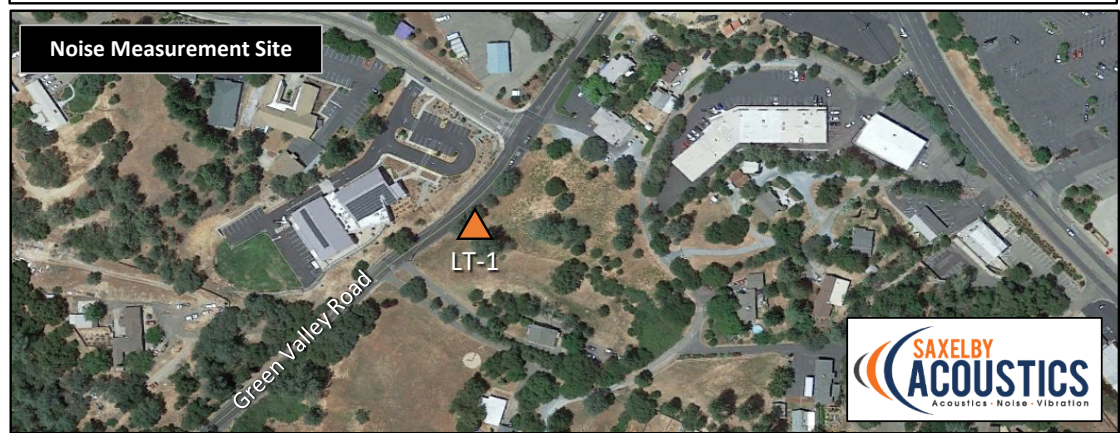
Calibrator: CAL200

Coordinates: (38.7257844, -120.8394374)

Date	Time	Measured Level, dBA			
		L <sub>eq</sub>	L <sub>max</sub>	L <sub>50</sub>	L <sub>90</sub>
Saturday, June 24, 2023	0:00	47	75	37	32
Saturday, June 24, 2023	1:00	41	63	35	31
Saturday, June 24, 2023	2:00	42	69	36	31
Saturday, June 24, 2023	3:00	39	58	34	30
Saturday, June 24, 2023	4:00	44	69	37	32
Saturday, June 24, 2023	5:00	47	61	43	40
Saturday, June 24, 2023	6:00	56	83	42	39
Saturday, June 24, 2023	7:00	56	75	49	39
Saturday, June 24, 2023	8:00	53	69	46	38
Saturday, June 24, 2023	9:00	56	78	51	42
Saturday, June 24, 2023	10:00	56	82	52	46
Saturday, June 24, 2023	11:00	55	73	52	45
Saturday, June 24, 2023	12:00	56	80	50	42
Saturday, June 24, 2023	13:00	56	79	49	41
Saturday, June 24, 2023	14:00	54	74	47	40
Saturday, June 24, 2023	15:00	54	73	48	41
Saturday, June 24, 2023	16:00	54	72	47	40
Saturday, June 24, 2023	17:00	53	73	47	40
Saturday, June 24, 2023	18:00	54	75	46	40
Saturday, June 24, 2023	19:00	52	71	45	40
Saturday, June 24, 2023	20:00	51	69	45	40
Saturday, June 24, 2023	21:00	50	72	43	39
Saturday, June 24, 2023	22:00	52	75	43	40
Saturday, June 24, 2023	23:00	49	73	43	40



Statistics	Leq	Lmax	L50	L90
Day Average	54	74	48	41
Night Average	49	70	39	35
Day Low	50	69	43	38
Day High	56	82	52	46
Night Low	39	58	34	30
Night High	56	83	43	40
Ldn	56	Day %		88
CNEL	57	Night %		12



**Appendix B1c: Continuous Noise Monitoring Results**

Site: LT-1

Project: 7460 & 7444 Green Valley Road Housing

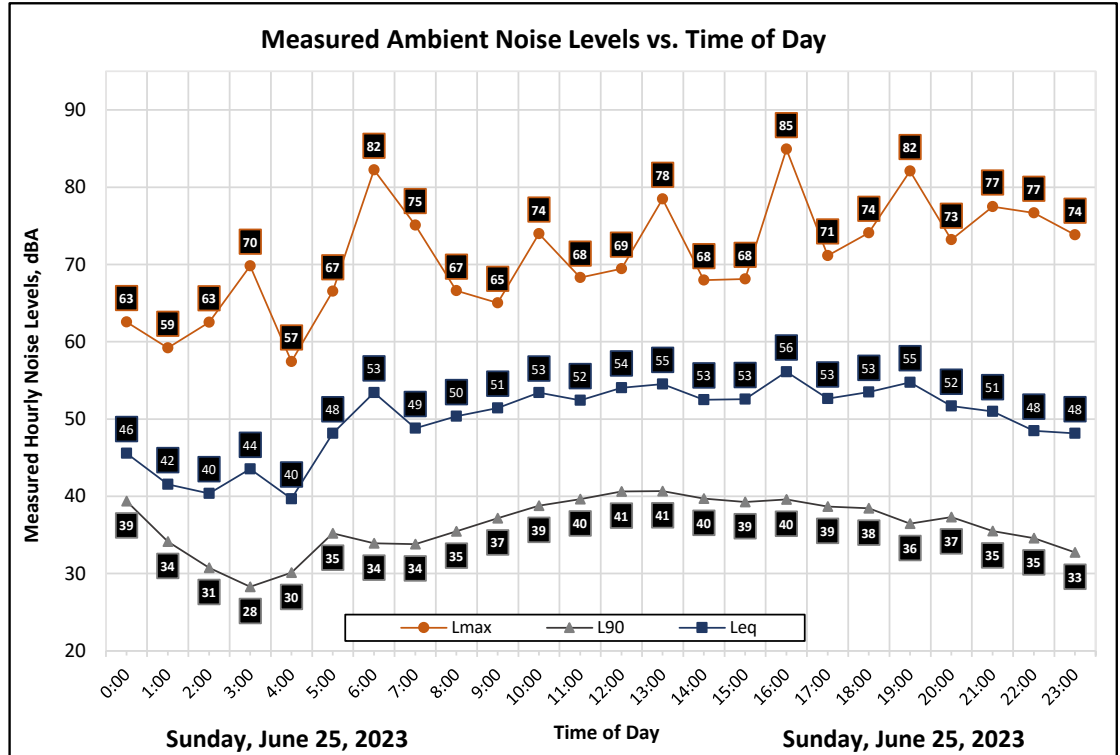
Meter: LDL 820-4

Location: Western Project Boundary

Calibrator: CAL200

Coordinates: (38.7257844, -120.8394374)

Date	Time	Measured Level, dBA			
		L <sub>eq</sub>	L <sub>max</sub>	L <sub>50</sub>	L <sub>90</sub>
Sunday, June 25, 2023	0:00	46	63	42	39
Sunday, June 25, 2023	1:00	42	59	39	34
Sunday, June 25, 2023	2:00	40	63	35	31
Sunday, June 25, 2023	3:00	44	70	34	28
Sunday, June 25, 2023	4:00	40	57	37	30
Sunday, June 25, 2023	5:00	48	67	43	35
Sunday, June 25, 2023	6:00	53	82	38	34
Sunday, June 25, 2023	7:00	49	75	38	34
Sunday, June 25, 2023	8:00	50	67	42	35
Sunday, June 25, 2023	9:00	51	65	43	37
Sunday, June 25, 2023	10:00	53	74	46	39
Sunday, June 25, 2023	11:00	52	68	46	40
Sunday, June 25, 2023	12:00	54	69	50	41
Sunday, June 25, 2023	13:00	55	78	49	41
Sunday, June 25, 2023	14:00	53	68	46	40
Sunday, June 25, 2023	15:00	53	68	46	39
Sunday, June 25, 2023	16:00	56	85	45	40
Sunday, June 25, 2023	17:00	53	74	44	39
Sunday, June 25, 2023	18:00	53	74	44	38
Sunday, June 25, 2023	19:00	55	82	42	36
Sunday, June 25, 2023	20:00	52	73	42	37
Sunday, June 25, 2023	21:00	51	77	39	35
Sunday, June 25, 2023	22:00	48	77	38	35
Sunday, June 25, 2023	23:00	48	74	36	33



Statistics	Leq	Lmax	L50	L90
Day Average	53	73	44	38
Night Average	47	68	38	33
Day Low	49	65	38	34
Day High	56	85	50	41
Night Low	40	57	34	28
Night High	53	82	43	39
Ldn	55	Day %		87
CNEL	56	Night %		13

