
APPENDIX A

CALEEMOD RESULTS

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

Hayden Parkway Apartments Project
Placer County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	361.00	Space	3.23	144,400.00	0
Apartment Mid Rise	198.00	Dwelling Unit	5.21	198,000.00	566

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2024
Utility Company	Roseville Electric				
CO2 Intensity (lb/MWhr)	471.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreages adjusted to match site plan.
- Construction Phase - Phase timing adjusted based on applicant-provided questionnaire.
- Woodstoves - No hearths, as noted on applicant-provided questionnaire.
- Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	360.00
tblConstructionPhase	NumDays	230.00	360.00
tblConstructionPhase	PhaseEndDate	11/22/2023	3/27/2024
tblConstructionPhase	PhaseEndDate	9/27/2023	3/13/2024

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tblConstructionPhase	PhaseEndDate	11/9/2022	9/28/2022
tblConstructionPhase	PhaseEndDate	10/25/2023	10/26/2022
tblConstructionPhase	PhaseStartDate	10/26/2023	11/10/2022
tblConstructionPhase	PhaseStartDate	11/10/2022	10/27/2022
tblConstructionPhase	PhaseStartDate	10/13/2022	9/1/2022
tblConstructionPhase	PhaseStartDate	9/28/2023	9/29/2022
tblFireplaces	NumberGas	108.90	0.00
tblFireplaces	NumberNoFireplace	19.80	198.00
tblFireplaces	NumberWood	69.30	0.00
tblLandUse	LotAcreage	3.25	3.23

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2262	0.7811	0.8761	1.8400e-003	0.1235	0.0364	0.1599	0.0484	0.0340	0.0824	0.0000	163.6208	163.6208	0.0295	4.2800e-003	165.6353
2023	1.2273	2.3646	3.1545	7.1900e-003	0.2873	0.1031	0.3904	0.0774	0.0975	0.1749	0.0000	644.8485	644.8485	0.0797	0.0226	653.5735
2024	0.2824	0.4597	0.6447	1.4800e-003	0.0602	0.0188	0.0789	0.0162	0.0178	0.0340	0.0000	132.5110	132.5110	0.0161	4.5000e-003	134.2546
Maximum	1.2273	2.3646	3.1545	7.1900e-003	0.2873	0.1031	0.3904	0.0774	0.0975	0.1749	0.0000	644.8485	644.8485	0.0797	0.0226	653.5735

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.2262	0.7811	0.8761	1.8400e-003	0.1235	0.0364	0.1599	0.0484	0.0340	0.0824	0.0000	163.6207	163.6207	0.0295	4.2800e-003	165.6352
2023	1.2273	2.3645	3.1545	7.1900e-003	0.2873	0.1031	0.3904	0.0774	0.0975	0.1749	0.0000	644.8481	644.8481	0.0797	0.0226	653.5731
2024	0.2824	0.4597	0.6447	1.4800e-003	0.0602	0.0188	0.0789	0.0162	0.0178	0.0340	0.0000	132.5109	132.5109	0.0161	4.5000e-003	134.2545
Maximum	1.2273	2.3645	3.1545	7.1900e-003	0.2873	0.1031	0.3904	0.0774	0.0975	0.1749	0.0000	644.8481	644.8481	0.0797	0.0226	653.5731

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

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2022	11-30-2022	0.6835	0.6835
2	12-1-2022	2-28-2023	0.9139	0.9139
3	3-1-2023	5-31-2023	0.9079	0.9079
4	6-1-2023	8-31-2023	0.9058	0.9058
5	9-1-2023	11-30-2023	0.9001	0.9001
6	12-1-2023	2-29-2024	0.8754	0.8754
7	3-1-2024	5-31-2024	0.1659	0.1659
		Highest	0.9139	0.9139

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****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	1.1548	0.0469	3.3051	6.0600e-003		0.3071	0.3071		0.3071	0.3071	40.0230	2.4080	42.4309	0.1894	0.0000	47.1664
Energy	0.0101	0.0859	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	275.3636	275.3636	0.0142	3.3100e-003	276.7064
Mobile	0.5649	0.8428	5.3557	0.0108	1.0791	9.6800e-003	1.0887	0.2891	9.0900e-003	0.2982	0.0000	1,014.7348	1,014.7348	0.0633	0.0537	1,032.3216
Waste						0.0000	0.0000		0.0000	0.0000	18.4884	0.0000	18.4884	1.0926	0.0000	45.8043
Water						0.0000	0.0000		0.0000	0.0000	4.0927	21.0382	25.1310	0.4218	0.0101	38.6878
Total	1.7297	0.9755	8.6974	0.0174	1.0791	0.3237	1.4028	0.2891	0.3231	0.6122	62.6041	1,313.5445	1,376.1486	1.7814	0.0671	1,440.6864

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.1548	0.0469	3.3051	6.0600e-003		0.3071	0.3071		0.3071	0.3071	40.0230	2.4080	42.4309	0.1894	0.0000	47.1664
Energy	0.0101	0.0859	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	275.3636	275.3636	0.0142	3.3100e-003	276.7064
Mobile	0.5307	0.7618	4.8569	9.5800e-003	0.9517	8.6200e-003	0.9604	0.2550	8.1000e-003	0.2631	0.0000	898.3794	898.3794	0.0585	0.0486	914.3373
Waste						0.0000	0.0000		0.0000	0.0000	18.4884	0.0000	18.4884	1.0926	0.0000	45.8043
Water						0.0000	0.0000		0.0000	0.0000	4.0927	21.0382	25.1310	0.4218	0.0101	38.6878
Total	1.6955	0.8946	8.1986	0.0162	0.9517	0.3226	1.2744	0.2550	0.3221	0.5771	62.6041	1,197.189 1	1,259.793 2	1.7766	0.0621	1,322.702 2

	ROG	NOx	CO	SO2	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	1.98	8.30	5.74	7.11	11.80	0.33	9.15	11.80	0.31	5.73	0.00	8.86	8.46	0.27	7.55	8.19

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/1/2022	9/28/2022	5	20	
2	Building Construction	Building Construction	10/27/2022	3/13/2024	5	360	
3	Paving	Paving	9/29/2022	10/26/2022	5	20	

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4	Architectural Coating	Architectural Coating	11/10/2022	3/27/2024	5	360
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Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 20****Acres of Paving: 3.23****Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,664 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	203.00	45.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	41.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0708	9.4100e-003	0.0802	0.0343	8.6600e-003	0.0429	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654

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3.2 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639
Total	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639

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					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	0.0195	0.2086	0.1527	3.0000e-004	0.0708	9.4100e-003	0.0802	0.0343	8.6600e-003	0.0429	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639
Total	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639

3.3 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0401	0.3670	0.3845	6.3000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	54.4554	54.4554	0.0131	0.0000	54.7816
Total	0.0401	0.3670	0.3845	6.3000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	54.4554	54.4554	0.0131	0.0000	54.7816

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9700e-003	0.0569	0.0170	2.2000e-004	6.9100e-003	5.2000e-004	7.4300e-003	2.0000e-003	5.0000e-004	2.5000e-003	0.0000	21.2512	21.2512	9.0000e-005	3.2100e-003	22.2115
Worker	0.0133	9.3100e-003	0.1167	3.3000e-004	0.0375	2.0000e-004	0.0377	9.9700e-003	1.8000e-004	0.0102	0.0000	30.3698	30.3698	9.5000e-004	8.8000e-004	30.6544
Total	0.0152	0.0662	0.1336	5.5000e-004	0.0444	7.2000e-004	0.0451	0.0120	6.8000e-004	0.0127	0.0000	51.6210	51.6210	1.0400e-003	4.0900e-003	52.8659

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	0.0401	0.3670	0.3845	6.3000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	54.4554	54.4554	0.0131	0.0000	54.7815
Total	0.0401	0.3670	0.3845	6.3000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	54.4554	54.4554	0.0131	0.0000	54.7815

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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					
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	1.9700e-003	0.0569	0.0170	2.2000e-004	6.9100e-003	5.2000e-004	7.4300e-003	2.0000e-003	5.0000e-004	2.5000e-003	0.0000	21.2512	21.2512	9.0000e-005	3.2100e-003	22.2115
Worker	0.0133	9.3100e-003	0.1167	3.3000e-004	0.0375	2.0000e-004	0.0377	9.9700e-003	1.8000e-004	0.0102	0.0000	30.3698	30.3698	9.5000e-004	8.8000e-004	30.6544
Total	0.0152	0.0662	0.1336	5.5000e-004	0.0444	7.2000e-004	0.0451	0.0120	6.8000e-004	0.0127	0.0000	51.6210	51.6210	1.0400e-003	4.0900e-003	52.8659

3.3 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7200e-003	0.2702	0.0857	1.1900e-003	0.0382	1.6200e-003	0.0398	0.0111	1.5500e-003	0.0126	0.0000	113.6079	113.6079	3.2000e-004	0.0172	118.7352
Worker	0.0682	0.0457	0.6004	1.7600e-003	0.2072	1.0400e-003	0.2083	0.0552	9.6000e-004	0.0561	0.0000	163.6497	163.6497	4.7700e-003	4.5000e-003	165.1106
Total	0.0749	0.3159	0.6861	2.9500e-003	0.2455	2.6600e-003	0.2481	0.0662	2.5100e-003	0.0687	0.0000	277.2576	277.2576	5.0900e-003	0.0217	283.8458

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	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

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

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7200e-003	0.2702	0.0857	1.1900e-003	0.0382	1.6200e-003	0.0398	0.0111	1.5500e-003	0.0126	0.0000	113.6079	113.6079	3.2000e-004	0.0172	118.7352
Worker	0.0682	0.0457	0.6004	1.7600e-003	0.2072	1.0400e-003	0.2083	0.0552	9.6000e-004	0.0561	0.0000	163.6497	163.6497	4.7700e-003	4.5000e-003	165.1106
Total	0.0749	0.3159	0.6861	2.9500e-003	0.2455	2.6600e-003	0.2481	0.0662	2.5100e-003	0.0687	0.0000	277.2576	277.2576	5.0900e-003	0.0217	283.8458

3.3 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	0.0390	0.3563	0.4284	7.1000e-004		0.0163	0.0163		0.0153	0.0153	0.0000	61.4400	61.4400	0.0145	0.0000	61.8032
Total	0.0390	0.3563	0.4284	7.1000e-004		0.0163	0.0163		0.0153	0.0153	0.0000	61.4400	61.4400	0.0145	0.0000	61.8032

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 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	1.3400e-003	0.0547	0.0172	2.4000e-004	7.7900e-003	3.3000e-004	8.1200e-003	2.2500e-003	3.2000e-004	2.5700e-003	0.0000	22.7010	22.7010	6.0000e-005	3.4300e-003	23.7257
Worker	0.0130	8.3300e-003	0.1146	3.5000e-004	0.0422	2.0000e-004	0.0425	0.0112	1.9000e-004	0.0114	0.0000	32.5200	32.5200	8.8000e-004	8.6000e-004	32.7976
Total	0.0143	0.0631	0.1318	5.9000e-004	0.0500	5.3000e-004	0.0506	0.0135	5.1000e-004	0.0140	0.0000	55.2209	55.2209	9.4000e-004	4.2900e-003	56.5233

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	0.0390	0.3563	0.4284	7.1000e-004		0.0163	0.0163		0.0153	0.0153	0.0000	61.4399	61.4399	0.0145	0.0000	61.8032
Total	0.0390	0.3563	0.4284	7.1000e-004		0.0163	0.0163		0.0153	0.0153	0.0000	61.4399	61.4399	0.0145	0.0000	61.8032

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

3.3 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	1.3400e-003	0.0547	0.0172	2.4000e-004	7.7900e-003	3.3000e-004	8.1200e-003	2.2500e-003	3.2000e-004	2.5700e-003	0.0000	22.7010	22.7010	6.0000e-005	3.4300e-003	23.7257
Worker	0.0130	8.3300e-003	0.1146	3.5000e-004	0.0422	2.0000e-004	0.0425	0.0112	1.9000e-004	0.0114	0.0000	32.5200	32.5200	8.8000e-004	8.6000e-004	32.7976
Total	0.0143	0.0631	0.1318	5.9000e-004	0.0500	5.3000e-004	0.0506	0.0135	5.1000e-004	0.0140	0.0000	55.2209	55.2209	9.4000e-004	4.2900e-003	56.5233

3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	4.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0153	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

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

3.4 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639
Total	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639

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	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	4.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0153	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639
Total	4.2000e-004	2.9000e-004	3.6700e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9549	0.9549	3.0000e-005	3.0000e-005	0.9639

3.5 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7800e-003	0.0261	0.0336	5.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	4.7235	4.7235	3.1000e-004	0.0000	4.7312
Total	0.1332	0.0261	0.0336	5.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	4.7235	4.7235	3.1000e-004	0.0000	4.7312

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

3.5 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.1100e-003	1.4800e-003	0.0186	5.0000e-005	5.9600e-003	3.0000e-005	5.9900e-003	1.5900e-003	3.0000e-005	1.6100e-003	0.0000	4.8287	4.8287	1.5000e-004	1.4000e-004	4.8740
Total	2.1100e-003	1.4800e-003	0.0186	5.0000e-005	5.9600e-003	3.0000e-005	5.9900e-003	1.5900e-003	3.0000e-005	1.6100e-003	0.0000	4.8287	4.8287	1.5000e-004	1.4000e-004	4.8740

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	0.1294					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7800e-003	0.0261	0.0336	5.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	4.7235	4.7235	3.1000e-004	0.0000	4.7312
Total	0.1332	0.0261	0.0336	5.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	4.7235	4.7235	3.1000e-004	0.0000	4.7312

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

3.5 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.1100e-003	1.4800e-003	0.0186	5.0000e-005	5.9600e-003	3.0000e-005	5.9900e-003	1.5900e-003	3.0000e-005	1.6100e-003	0.0000	4.8287	4.8287	1.5000e-004	1.4000e-004	4.8740
Total	2.1100e-003	1.4800e-003	0.0186	5.0000e-005	5.9600e-003	3.0000e-005	5.9900e-003	1.5900e-003	3.0000e-005	1.6100e-003	0.0000	4.8287	4.8287	1.5000e-004	1.4000e-004	4.8740

3.5 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9093					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	0.9342	0.1694	0.2355	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419

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3.5 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0138	9.2300e-003	0.1213	3.6000e-004	0.0419	2.1000e-004	0.0421	0.0111	1.9000e-004	0.0113	0.0000	33.0524	33.0524	9.6000e-004	9.1000e-004	33.3475
Total	0.0138	9.2300e-003	0.1213	3.6000e-004	0.0419	2.1000e-004	0.0421	0.0111	1.9000e-004	0.0113	0.0000	33.0524	33.0524	9.6000e-004	9.1000e-004	33.3475

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	0.9093					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	0.9342	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419

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

3.5 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0138	9.2300e-003	0.1213	3.6000e-004	0.0419	2.1000e-004	0.0421	0.0111	1.9000e-004	0.0113	0.0000	33.0524	33.0524	9.6000e-004	9.1000e-004	33.3475
Total	0.0138	9.2300e-003	0.1213	3.6000e-004	0.0419	2.1000e-004	0.0421	0.0111	1.9000e-004	0.0113	0.0000	33.0524	33.0524	9.6000e-004	9.1000e-004	33.3475

3.5 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	0.2203					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6900e-003	0.0384	0.0570	9.0000e-005		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	8.0428	8.0428	4.5000e-004	0.0000	8.0541
Total	0.2260	0.0384	0.0570	9.0000e-005		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	8.0428	8.0428	4.5000e-004	0.0000	8.0541

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 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	3.1100e-003	2.0000e-003	0.0275	8.0000e-005	0.0101	5.0000e-005	0.0102	2.7000e-003	4.0000e-005	2.7400e-003	0.0000	7.8073	7.8073	2.1000e-004	2.1000e-004	7.8740
Total	3.1100e-003	2.0000e-003	0.0275	8.0000e-005	0.0101	5.0000e-005	0.0102	2.7000e-003	4.0000e-005	2.7400e-003	0.0000	7.8073	7.8073	2.1000e-004	2.1000e-004	7.8740

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	0.2203					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.6900e-003	0.0384	0.0570	9.0000e-005		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	8.0427	8.0427	4.5000e-004	0.0000	8.0541
Total	0.2260	0.0384	0.0570	9.0000e-005		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	8.0427	8.0427	4.5000e-004	0.0000	8.0541

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 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	3.1100e-003	2.0000e-003	0.0275	8.0000e-005	0.0101	5.0000e-005	0.0102	2.7000e-003	4.0000e-005	2.7400e-003	0.0000	7.8073	7.8073	2.1000e-004	2.1000e-004	7.8740
Total	3.1100e-003	2.0000e-003	0.0275	8.0000e-005	0.0101	5.0000e-005	0.0102	2.7000e-003	4.0000e-005	2.7400e-003	0.0000	7.8073	7.8073	2.1000e-004	2.1000e-004	7.8740

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Transit Accessibility

Improve Pedestrian Network

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5307	0.7618	4.8569	9.5800e-003	0.9517	8.6200e-003	0.9604	0.2550	8.1000e-003	0.2631	0.0000	898.3794	898.3794	0.0585	0.0486	914.3373
Unmitigated	0.5649	0.8428	5.3557	0.0108	1.0791	9.6800e-003	1.0887	0.2891	9.0900e-003	0.2982	0.0000	1,014.7348	1,014.7348	0.0633	0.0537	1,032.3216

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,077.12	972.18	809.82	2,933,128	2,587,019
Parking Lot	0.00	0.00	0.00		
Total	1,077.12	972.18	809.82	2,933,128	2,587,019

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	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
Apartments Mid Rise	0.466187	0.061512	0.210180	0.153350	0.034639	0.008391	0.014417	0.011935	0.000556	0.000412	0.031993	0.000977	0.005450
Parking Lot	0.466187	0.061512	0.210180	0.153350	0.034639	0.008391	0.014417	0.011935	0.000556	0.000412	0.031993	0.000977	0.005450

5.0 Energy Detail

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	175.8714	175.8714	0.0123	1.4900e-003	176.6229
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	175.8714	175.8714	0.0123	1.4900e-003	176.6229
NaturalGas Mitigated	0.0101	0.0859	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	99.4922	99.4922	1.9100e-003	1.8200e-003	100.0834
NaturalGas Unmitigated	0.0101	0.0859	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	99.4922	99.4922	1.9100e-003	1.8200e-003	100.0834

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.86441e+006	0.0101	0.0859	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	99.4922	99.4922	1.9100e-003	1.8200e-003	100.0834
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
Total		0.0101	0.0859	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	99.4922	99.4922	1.9100e-003	1.8200e-003	100.0834

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					
Apartments Mid Rise	1.86441e+006	0.0101	0.0859	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	99.4922	99.4922	1.9100e-003	1.8200e-003	100.0834
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
Total		0.0101	0.0859	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	99.4922	99.4922	1.9100e-003	1.8200e-003	100.0834

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	770957	165.0514	0.0115	1.4000e-003	165.7568
Parking Lot	50540	10.8199	7.6000e-004	9.0000e-005	10.8662
Total		175.8713	0.0123	1.4900e-003	176.6229

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	770957	165.0514	0.0115	1.4000e-003	165.7568
Parking Lot	50540	10.8199	7.6000e-004	9.0000e-005	10.8662
Total		175.8713	0.0123	1.4900e-003	176.6229

6.0 Area Detail

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	1.1548	0.0469	3.3051	6.0600e-003		0.3071	0.3071		0.3071	0.3071	40.0230	2.4080	42.4309	0.1894	0.0000	47.1664
Unmitigated	1.1548	0.0469	3.3051	6.0600e-003		0.3071	0.3071		0.3071	0.3071	40.0230	2.4080	42.4309	0.1894	0.0000	47.1664

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7826					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2018	0.0299	1.8323	5.9800e-003		0.2989	0.2989		0.2989	0.2989	40.0230	0.0000	40.0230	0.1871	0.0000	44.7004
Landscaping	0.0445	0.0170	1.4729	8.0000e-005		8.1600e-003	8.1600e-003		8.1600e-003	8.1600e-003	0.0000	2.4080	2.4080	2.3200e-003	0.0000	2.4660
Total	1.1548	0.0469	3.3051	6.0600e-003		0.3071	0.3071		0.3071	0.3071	40.0230	2.4080	42.4309	0.1894	0.0000	47.1664

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1259					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7826					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2018	0.0299	1.8323	5.9800e-003		0.2989	0.2989		0.2989	0.2989	40.0230	0.0000	40.0230	0.1871	0.0000	44.7004
Landscaping	0.0445	0.0170	1.4729	8.0000e-005		8.1600e-003	8.1600e-003		8.1600e-003	8.1600e-003	0.0000	2.4080	2.4080	2.3200e-003	0.0000	2.4660
Total	1.1548	0.0469	3.3051	6.0600e-003		0.3071	0.3071		0.3071	0.3071	40.0230	2.4080	42.4309	0.1894	0.0000	47.1664

7.0 Water Detail**7.1 Mitigation Measures Water**

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	25.1310	0.4218	0.0101	38.6878
Unmitigated	25.1310	0.4218	0.0101	38.6878

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.9005 / 8.13292	25.1310	0.4218	0.0101	38.6878
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		25.1310	0.4218	0.0101	38.6878

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	12.9005 / 8.13292	25.1310	0.4218	0.0101	38.6878
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		25.1310	0.4218	0.0101	38.6878

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	18.4884	1.0926	0.0000	45.8043
Unmitigated	18.4884	1.0926	0.0000	45.8043

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	91.08	18.4884	1.0926	0.0000	45.8043
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		18.4884	1.0926	0.0000	45.8043

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	91.08	18.4884	1.0926	0.0000	45.8043
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		18.4884	1.0926	0.0000	45.8043

9.0 Operational Offroad

Hayden Parkway Apartments Project - Placer County APCD Air District, Annual

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

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

Hayden Parkway Apartments Project
Placer County APCD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	361.00	Space	3.23	144,400.00	0
Apartment Mid Rise	198.00	Dwelling Unit	5.21	198,000.00	566

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2024
Utility Company	Roseville Electric				
CO2 Intensity (lb/MWhr)	471.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreages adjusted to match site plan.
- Construction Phase - Phase timing adjusted based on applicant-provided questionnaire.
- Woodstoves - No hearths, as noted on applicant-provided questionnaire.
- Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	360.00
tblConstructionPhase	NumDays	230.00	360.00
tblConstructionPhase	PhaseEndDate	11/22/2023	3/27/2024
tblConstructionPhase	PhaseEndDate	9/27/2023	3/13/2024

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

tblConstructionPhase	PhaseEndDate	11/9/2022	9/28/2022
tblConstructionPhase	PhaseEndDate	10/25/2023	10/26/2022
tblConstructionPhase	PhaseStartDate	10/26/2023	11/10/2022
tblConstructionPhase	PhaseStartDate	11/10/2022	10/27/2022
tblConstructionPhase	PhaseStartDate	10/13/2022	9/1/2022
tblConstructionPhase	PhaseStartDate	9/28/2023	9/29/2022
tblFireplaces	NumberGas	108.90	0.00
tblFireplaces	NumberNoFireplace	19.80	198.00
tblFireplaces	NumberWood	69.30	0.00
tblLandUse	LotAcreage	3.25	3.23

2.0 Emissions Summary

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	9.7613	20.8810	25.5798	0.0576	7.2058	0.9415	8.1473	3.4574	0.8734	4.3236	0.0000	5,691.443 9	5,691.443 9	0.9319	0.1962	5,767.025 5
2023	9.5285	18.0399	24.9204	0.0567	2.3093	0.7926	3.1020	0.6195	0.7500	1.3695	0.0000	5,609.841 9	5,609.841 9	0.6723	0.1879	5,682.636 5
2024	9.3672	16.9623	24.4276	0.0560	2.3093	0.6958	3.0051	0.6195	0.6582	1.2776	0.0000	5,545.418 0	5,545.418 0	0.6635	0.1823	5,616.325 8
Maximum	9.7613	20.8810	25.5798	0.0576	7.2058	0.9415	8.1473	3.4574	0.8734	4.3236	0.0000	5,691.443 9	5,691.443 9	0.9319	0.1962	5,767.025 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	9.7613	20.8810	25.5798	0.0576	7.2058	0.9415	8.1473	3.4574	0.8734	4.3236	0.0000	5,691.443 9	5,691.443 9	0.9319	0.1962	5,767.025 5
2023	9.5285	18.0399	24.9204	0.0567	2.3093	0.7926	3.1020	0.6195	0.7500	1.3695	0.0000	5,609.841 9	5,609.841 9	0.6723	0.1879	5,682.636 5
2024	9.3672	16.9623	24.4276	0.0560	2.3093	0.6958	3.0051	0.6195	0.6582	1.2776	0.0000	5,545.418 0	5,545.418 0	0.6635	0.1823	5,616.325 8
Maximum	9.7613	20.8810	25.5798	0.0576	7.2058	0.9415	8.1473	3.4574	0.8734	4.3236	0.0000	5,691.443 9	5,691.443 9	0.9319	0.1962	5,767.025 5

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

[illegible]

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.042 9	29.4924	1,105.535 2	5.0587	0.0000	1,232.003 0
Energy	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
Mobile	3.8154	4.4614	31.7100	0.0664	6.5208	0.0560	6.5768	1.7405	0.0526	1.7931		6,864.472 9	6,864.472 9	0.3751	0.3265	6,971.153 6
Total	14.2640	5.8497	92.9648	0.2161	6.5208	7.4750	13.9958	1.7405	7.4715	9.2121	1,076.042 9	7,494.904 3	8,570.947 2	5.4453	0.3375	8,807.666 7

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	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.042 9	29.4924	1,105.535 2	5.0587	0.0000	1,232.003 0
Energy	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
Mobile	3.6238	4.0350	28.5872	0.0588	5.7514	0.0499	5.8013	1.5351	0.0468	1.5820		6,075.686 4	6,075.686 4	0.3449	0.2956	6,172.407 6
Total	14.0724	5.4233	89.8420	0.2085	5.7514	7.4689	13.2202	1.5351	7.4658	9.0009	1,076.042 9	6,706.117 9	7,782.160 7	5.4151	0.3067	8,008.920 8

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.34	7.29	3.36	3.53	11.80	0.08	5.54	11.80	0.08	2.29	0.00	10.52	9.20	0.55	9.15	9.07

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/1/2022	9/28/2022	5	20	
2	Building Construction	Building Construction	10/27/2022	3/13/2024	5	360	
3	Paving	Paving	9/29/2022	10/26/2022	5	20	
4	Architectural Coating	Architectural Coating	11/10/2022	3/27/2024	5	360	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 20****Acres of Paving: 3.23****Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,664 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	203.00	45.00	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	41.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2022****Unmitigated Construction On-Site**

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

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	0.0855	2.3038	0.7086	9.4300e-003	0.3049	0.0221	0.3271	0.0878	0.0212	0.1090		996.3407	996.3407	4.3400e-003	0.1507	1,041.3423
Worker	0.6410	0.3503	5.5694	0.0152	1.6676	8.4300e-003	1.6760	0.4423	7.7600e-003	0.4501		1,546.8946	1,546.8946	0.0412	0.0379	1,559.2270
Total	0.7265	2.6541	6.2780	0.0246	1.9725	0.0306	2.0031	0.5301	0.0289	0.5591		2,543.2352	2,543.2352	0.0456	0.1886	2,600.5693

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2022****Mitigated Construction On-Site**

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

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	0.0855	2.3038	0.7086	9.4300e-003	0.3049	0.0221	0.3271	0.0878	0.0212	0.1090		996.3407	996.3407	4.3400e-003	0.1507	1,041.3423
Worker	0.6410	0.3503	5.5694	0.0152	1.6676	8.4300e-003	1.6760	0.4423	7.7600e-003	0.4501		1,546.8946	1,546.8946	0.0412	0.0379	1,559.2270
Total	0.7265	2.6541	6.2780	0.0246	1.9725	0.0306	2.0031	0.5301	0.0289	0.5591		2,543.2352	2,543.2352	0.0456	0.1886	2,600.5693

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Unmitigated Construction On-Site**

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

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	0.0535	1.9779	0.6483	9.1100e-003	0.3049	0.0125	0.3174	0.0878	0.0119	0.0997		962.4275	962.4275	2.8200e-003	0.1455	1,005.8435
Worker	0.5957	0.3113	5.1723	0.0147	1.6676	8.0000e-003	1.6756	0.4423	7.3700e-003	0.4497		1,506.4900	1,506.4900	0.0373	0.0353	1,517.9391
Total	0.6493	2.2892	5.8206	0.0238	1.9725	0.0205	1.9930	0.5301	0.0193	0.5494		2,468.9175	2,468.9175	0.0401	0.1807	2,523.7826

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0535	1.9779	0.6483	9.1100e-003	0.3049	0.0125	0.3174	0.0878	0.0119	0.0997		962.4275	962.4275	2.8200e-003	0.1455	1,005.8435
Worker	0.5957	0.3113	5.1723	0.0147	1.6676	8.0000e-003	1.6756	0.4423	7.3700e-003	0.4497		1,506.4900	1,506.4900	0.0373	0.0353	1,517.9391
Total	0.6493	2.2892	5.8206	0.0238	1.9725	0.0205	1.9930	0.5301	0.0193	0.5494		2,468.9175	2,468.9175	0.0401	0.1807	2,523.7826

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 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
Total	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

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	0.0525	1.9650	0.6391	8.9300e-003	0.3049	0.0125	0.3174	0.0878	0.0119	0.0997		943.3926	943.3926	2.7300e-003	0.1426	985.9625
Worker	0.5556	0.2785	4.8350	0.0142	1.6676	7.6100e-003	1.6752	0.4423	7.0100e-003	0.4493		1,468.3210	1,468.3210	0.0338	0.0330	1,478.9976
Total	0.6081	2.2435	5.4742	0.0232	1.9725	0.0201	1.9926	0.5301	0.0189	0.5490		2,411.7136	2,411.7136	0.0365	0.1756	2,464.9601

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 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
Total	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

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	0.0525	1.9650	0.6391	8.9300e-003	0.3049	0.0125	0.3174	0.0878	0.0119	0.0997		943.3926	943.3926	2.7300e-003	0.1426	985.9625
Worker	0.5556	0.2785	4.8350	0.0142	1.6676	7.6100e-003	1.6752	0.4423	7.0100e-003	0.4493		1,468.3210	1,468.3210	0.0338	0.0330	1,478.9976
Total	0.6081	2.2435	5.4742	0.0232	1.9725	0.0201	1.9926	0.5301	0.0189	0.5490		2,411.7136	2,411.7136	0.0365	0.1756	2,464.9601

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.4231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5260	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.4231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5260	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138
Total	0.0474	0.0259	0.4115	1.1200e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		114.3026	114.3026	3.0400e-003	2.8000e-003	115.2138

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	7.1991	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.1295	0.0708	1.1249	3.0700e-003	0.3368	1.7000e-003	0.3385	0.0893	1.5700e-003	0.0909		312.4270	312.4270	8.3200e-003	7.6600e-003	314.9178
Total	0.1295	0.0708	1.1249	3.0700e-003	0.3368	1.7000e-003	0.3385	0.0893	1.5700e-003	0.0909		312.4270	312.4270	8.3200e-003	7.6600e-003	314.9178

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	7.1991	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.1295	0.0708	1.1249	3.0700e-003	0.3368	1.7000e-003	0.3385	0.0893	1.5700e-003	0.0909		312.4270	312.4270	8.3200e-003	7.6600e-003	314.9178
Total	0.1295	0.0708	1.1249	3.0700e-003	0.3368	1.7000e-003	0.3385	0.0893	1.5700e-003	0.0909		312.4270	312.4270	8.3200e-003	7.6600e-003	314.9178

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	7.1862	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.1203	0.0629	1.0447	2.9700e-003	0.3368	1.6200e-003	0.3384	0.0893	1.4900e-003	0.0908		304.2665	304.2665	7.5300e-003	7.1300e-003	306.5788
Total	0.1203	0.0629	1.0447	2.9700e-003	0.3368	1.6200e-003	0.3384	0.0893	1.4900e-003	0.0908		304.2665	304.2665	7.5300e-003	7.1300e-003	306.5788

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	7.1862	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.1203	0.0629	1.0447	2.9700e-003	0.3368	1.6200e-003	0.3384	0.0893	1.4900e-003	0.0908		304.2665	304.2665	7.5300e-003	7.1300e-003	306.5788
Total	0.1203	0.0629	1.0447	2.9700e-003	0.3368	1.6200e-003	0.3384	0.0893	1.4900e-003	0.0908		304.2665	304.2665	7.5300e-003	7.1300e-003	306.5788

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 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	6.9945					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
Total	7.1753	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1122	0.0562	0.9765	2.8700e-003	0.3368	1.5400e-003	0.3383	0.0893	1.4200e-003	0.0908		296.5574	296.5574	6.8200e-003	6.6600e-003	298.7138
Total	0.1122	0.0562	0.9765	2.8700e-003	0.3368	1.5400e-003	0.3383	0.0893	1.4200e-003	0.0908		296.5574	296.5574	6.8200e-003	6.6600e-003	298.7138

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 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	6.9945					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
Total	7.1753	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

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	0.1122	0.0562	0.9765	2.8700e-003	0.3368	1.5400e-003	0.3383	0.0893	1.4200e-003	0.0908		296.5574	296.5574	6.8200e-003	6.6600e-003	298.7138
Total	0.1122	0.0562	0.9765	2.8700e-003	0.3368	1.5400e-003	0.3383	0.0893	1.4200e-003	0.0908		296.5574	296.5574	6.8200e-003	6.6600e-003	298.7138

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.6238	4.0350	28.5872	0.0588	5.7514	0.0499	5.8013	1.5351	0.0468	1.5820		6,075.686 4	6,075.686 4	0.3449	0.2956	6,172.407 6
Unmitigated	3.8154	4.4614	31.7100	0.0664	6.5208	0.0560	6.5768	1.7405	0.0526	1.7931		6,864.472 9	6,864.472 9	0.3751	0.3265	6,971.153 6

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,077.12	972.18	809.82	2,933,128	2,587,019
Parking Lot	0.00	0.00	0.00		
Total	1,077.12	972.18	809.82	2,933,128	2,587,019

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	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

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.466187	0.061512	0.210180	0.153350	0.034639	0.008391	0.014417	0.011935	0.000556	0.000412	0.031993	0.000977	0.005450
Parking Lot	0.466187	0.061512	0.210180	0.153350	0.034639	0.008391	0.014417	0.011935	0.000556	0.000412	0.031993	0.000977	0.005450

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	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
NaturalGas Unmitigated	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5107.98	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
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
Total		0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.10798	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
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
Total		0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102

6.0 Area Detail

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.0429	29.4924	1,105.5352	5.0587	0.0000	1,232.0030
Unmitigated	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.0429	29.4924	1,105.5352	5.0587	0.0000	1,232.0030

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2884					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.9209	0.7290	44.6893	0.1458		7.2903	7.2903		7.2903	7.2903	1,076.042 9	0.0000	1,076.042 9	5.0303	0.0000	1,201.799 9
Landscaping	0.4944	0.1885	16.3652	8.7000e-004		0.0906	0.0906		0.0906	0.0906		29.4924	29.4924	0.0284		30.2031
Total	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.042 9	29.4924	1,105.535 2	5.0587	0.0000	1,232.003 0

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2884					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.9209	0.7290	44.6893	0.1458		7.2903	7.2903		7.2903	7.2903	1,076.042 9	0.0000	1,076.042 9	5.0303	0.0000	1,201.799 9
Landscaping	0.4944	0.1885	16.3652	8.7000e-004		0.0906	0.0906		0.0906	0.0906		29.4924	29.4924	0.0284		30.2031
Total	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.042 9	29.4924	1,105.535 2	5.0587	0.0000	1,232.003 0

7.0 Water Detail

7.1 Mitigation Measures Water

Hayden Parkway Apartments Project - Placer County APCD Air District, Summer

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

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

Hayden Parkway Apartments Project
Placer County APCD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	361.00	Space	3.23	144,400.00	0
Apartment Mid Rise	198.00	Dwelling Unit	5.21	198,000.00	566

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2024
Utility Company	Roseville Electric				
CO2 Intensity (lb/MWhr)	471.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Lot acreages adjusted to match site plan.
- Construction Phase - Phase timing adjusted based on applicant-provided questionnaire.
- Woodstoves - No hearths, as noted on applicant-provided questionnaire.
- Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	360.00
tblConstructionPhase	NumDays	230.00	360.00
tblConstructionPhase	PhaseEndDate	11/22/2023	3/27/2024
tblConstructionPhase	PhaseEndDate	9/27/2023	3/13/2024

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

tblConstructionPhase	PhaseEndDate	11/9/2022	9/28/2022
tblConstructionPhase	PhaseEndDate	10/25/2023	10/26/2022
tblConstructionPhase	PhaseStartDate	10/26/2023	11/10/2022
tblConstructionPhase	PhaseStartDate	11/10/2022	10/27/2022
tblConstructionPhase	PhaseStartDate	10/13/2022	9/1/2022
tblConstructionPhase	PhaseStartDate	9/28/2023	9/29/2022
tblFireplaces	NumberGas	108.90	0.00
tblFireplaces	NumberNoFireplace	19.80	198.00
tblFireplaces	NumberWood	69.30	0.00
tblLandUse	LotAcreage	3.25	3.23

2.0 Emissions Summary

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	9.7034	20.8875	24.9989	0.0558	7.2058	0.9415	8.1473	3.4574	0.8735	4.3236	0.0000	5,508.568 1	5,508.568 1	0.9325	0.2038	5,586.600 5
2023	9.4749	18.2810	24.3964	0.0550	2.3093	0.7927	3.1020	0.6195	0.7501	1.3695	0.0000	5,433.163 8	5,433.163 8	0.6801	0.1950	5,508.274 2
2024	9.3177	17.1927	23.9520	0.0543	2.3093	0.6959	3.0052	0.6195	0.6582	1.2777	0.0000	5,373.620 6	5,373.620 6	0.6707	0.1889	5,446.687 5
Maximum	9.7034	20.8875	24.9989	0.0558	7.2058	0.9415	8.1473	3.4574	0.8735	4.3236	0.0000	5,508.568 1	5,508.568 1	0.9325	0.2038	5,586.600 5

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	9.7034	20.8875	24.9989	0.0558	7.2058	0.9415	8.1473	3.4574	0.8735	4.3236	0.0000	5,508.568 1	5,508.568 1	0.9325	0.2038	5,586.600 5
2023	9.4749	18.2810	24.3964	0.0550	2.3093	0.7927	3.1020	0.6195	0.7501	1.3695	0.0000	5,433.163 8	5,433.163 8	0.6801	0.1950	5,508.274 1
2024	9.3177	17.1927	23.9520	0.0543	2.3093	0.6959	3.0052	0.6195	0.6582	1.2777	0.0000	5,373.620 6	5,373.620 6	0.6707	0.1889	5,446.687 5
Maximum	9.7034	20.8875	24.9989	0.0558	7.2058	0.9415	8.1473	3.4574	0.8735	4.3236	0.0000	5,508.568 1	5,508.568 1	0.9325	0.2038	5,586.600 5

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

[illegible]

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.042 9	29.4924	1,105.535 2	5.0587	0.0000	1,232.003 0
Energy	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
Mobile	3.2155	5.1315	32.9577	0.0617	6.5208	0.0560	6.5769	1.7405	0.0526	1.7931		6,377.261 3	6,377.261 3	0.4326	0.3555	6,494.026 3
Total	13.6641	6.5197	94.2125	0.2114	6.5208	7.4750	13.9958	1.7405	7.4716	9.2121	1,076.042 9	7,007.692 8	8,083.735 7	5.5028	0.3666	8,330.539 5

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	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.042 9	29.4924	1,105.535 2	5.0587	0.0000	1,232.003 0
Energy	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
Mobile	3.0100	4.6412	29.9940	0.0546	5.7514	0.0499	5.8013	1.5351	0.0469	1.5820		5,646.704 5	5,646.704 5	0.4015	0.3222	5,752.771 8
Total	13.4586	6.0294	91.2488	0.2043	5.7514	7.4689	13.2203	1.5351	7.4658	9.0010	1,076.042 9	6,277.136 0	7,353.178 9	5.4718	0.3333	7,589.285 0

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.50	7.52	3.15	3.34	11.80	0.08	5.54	11.80	0.08	2.29	0.00	10.43	9.04	0.56	9.08	8.90

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/1/2022	9/28/2022	5	20	
2	Building Construction	Building Construction	10/27/2022	3/13/2024	5	360	
3	Paving	Paving	9/29/2022	10/26/2022	5	20	
4	Architectural Coating	Architectural Coating	11/10/2022	3/27/2024	5	360	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 20****Acres of Paving: 3.23****Residential Indoor: 400,950; Residential Outdoor: 133,650; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 8,664 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	203.00	45.00	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	41.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903	0.0000	2,872.046 4	2,872.046 4	0.9289		2,895.268 4

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	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2022****Unmitigated Construction On-Site**

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

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	0.0823	2.4695	0.7368	9.4400e-003	0.3049	0.0222	0.3271	0.0878	0.0212	0.1090		997.4964	997.4964	4.2000e-003	0.1510	1,042.5843
Worker	0.5956	0.4373	5.0626	0.0137	1.6676	8.4300e-003	1.6760	0.4423	7.7600e-003	0.4501		1,393.7864	1,393.7864	0.0483	0.0439	1,408.0862
Total	0.6779	2.9068	5.7994	0.0231	1.9725	0.0306	2.0032	0.5301	0.0290	0.5591		2,391.2828	2,391.2828	0.0525	0.1949	2,450.6704

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2022****Mitigated Construction On-Site**

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

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	0.0823	2.4695	0.7368	9.4400e-003	0.3049	0.0222	0.3271	0.0878	0.0212	0.1090		997.4964	997.4964	4.2000e-003	0.1510	1,042.5843
Worker	0.5956	0.4373	5.0626	0.0137	1.6676	8.4300e-003	1.6760	0.4423	7.7600e-003	0.4501		1,393.7864	1,393.7864	0.0483	0.0439	1,408.0862
Total	0.6779	2.9068	5.7994	0.0231	1.9725	0.0306	2.0032	0.5301	0.0290	0.5591		2,391.2828	2,391.2828	0.0525	0.1949	2,450.6704

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Unmitigated Construction On-Site**

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

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	0.0497	2.1265	0.6720	9.1300e-003	0.3049	0.0125	0.3175	0.0878	0.0120	0.0998		964.5493	964.5493	2.6500e-003	0.1459	1,008.0921
Worker	0.5543	0.3882	4.7167	0.0133	1.6676	8.0000e-003	1.6756	0.4423	7.3700e-003	0.4497		1,357.7344	1,357.7344	0.0439	0.0409	1,371.0046
Total	0.6040	2.5147	5.3886	0.0224	1.9725	0.0205	1.9931	0.5301	0.0194	0.5495		2,322.2837	2,322.2837	0.0465	0.1867	2,379.0967

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0497	2.1265	0.6720	9.1300e-003	0.3049	0.0125	0.3175	0.0878	0.0120	0.0998		964.5493	964.5493	2.6500e-003	0.1459	1,008.0921
Worker	0.5543	0.3882	4.7167	0.0133	1.6676	8.0000e-003	1.6756	0.4423	7.3700e-003	0.4497		1,357.7344	1,357.7344	0.0439	0.0409	1,371.0046
Total	0.6040	2.5147	5.3886	0.0224	1.9725	0.0205	1.9931	0.5301	0.0194	0.5495		2,322.2837	2,322.2837	0.0465	0.1867	2,379.0967

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 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
Total	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

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	0.0487	2.1130	0.6624	8.9500e-003	0.3049	0.0125	0.3174	0.0878	0.0120	0.0998		945.5161	945.5161	2.5600e-003	0.1431	988.2094
Worker	0.5177	0.3470	4.4200	0.0128	1.6676	7.6100e-003	1.6752	0.4423	7.0100e-003	0.4493		1,323.6246	1,323.6246	0.0399	0.0382	1,335.9947
Total	0.5663	2.4600	5.0823	0.0218	1.9725	0.0201	1.9926	0.5301	0.0190	0.5491		2,269.1407	2,269.1407	0.0425	0.1812	2,324.2041

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

3.3 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
Total	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

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	0.0487	2.1130	0.6624	8.9500e-003	0.3049	0.0125	0.3174	0.0878	0.0120	0.0998		945.5161	945.5161	2.5600e-003	0.1431	988.2094
Worker	0.5177	0.3470	4.4200	0.0128	1.6676	7.6100e-003	1.6752	0.4423	7.0100e-003	0.4493		1,323.6246	1,323.6246	0.0399	0.0382	1,335.9947
Total	0.5663	2.4600	5.0823	0.0218	1.9725	0.0201	1.9926	0.5301	0.0190	0.5491		2,269.1407	2,269.1407	0.0425	0.1812	2,324.2041

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.4231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5260	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

3.4 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.4231					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5260	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

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	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458
Total	0.0440	0.0323	0.3741	1.0100e-003	0.1232	6.2000e-004	0.1238	0.0327	5.7000e-004	0.0333		102.9891	102.9891	3.5700e-003	3.2500e-003	104.0458

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	7.1991	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.1203	0.0883	1.0225	2.7700e-003	0.3368	1.7000e-003	0.3385	0.0893	1.5700e-003	0.0909		281.5037	281.5037	9.7500e-003	8.8700e-003	284.3918
Total	0.1203	0.0883	1.0225	2.7700e-003	0.3368	1.7000e-003	0.3385	0.0893	1.5700e-003	0.0909		281.5037	281.5037	9.7500e-003	8.8700e-003	284.3918

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2022****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	7.1991	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.1203	0.0883	1.0225	2.7700e-003	0.3368	1.7000e-003	0.3385	0.0893	1.5700e-003	0.0909		281.5037	281.5037	9.7500e-003	8.8700e-003	284.3918
Total	0.1203	0.0883	1.0225	2.7700e-003	0.3368	1.7000e-003	0.3385	0.0893	1.5700e-003	0.0909		281.5037	281.5037	9.7500e-003	8.8700e-003	284.3918

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	7.1862	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.1120	0.0784	0.9526	2.6800e-003	0.3368	1.6200e-003	0.3384	0.0893	1.4900e-003	0.0908		274.2222	274.2222	8.8600e-003	8.2500e-003	276.9024
Total	0.1120	0.0784	0.9526	2.6800e-003	0.3368	1.6200e-003	0.3384	0.0893	1.4900e-003	0.0908		274.2222	274.2222	8.8600e-003	8.2500e-003	276.9024

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Architectural Coating - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.9945					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	7.1862	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.1120	0.0784	0.9526	2.6800e-003	0.3368	1.6200e-003	0.3384	0.0893	1.4900e-003	0.0908		274.2222	274.2222	8.8600e-003	8.2500e-003	276.9024
Total	0.1120	0.0784	0.9526	2.6800e-003	0.3368	1.6200e-003	0.3384	0.0893	1.4900e-003	0.0908		274.2222	274.2222	8.8600e-003	8.2500e-003	276.9024

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 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	6.9945					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
Total	7.1753	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.1046	0.0701	0.8927	2.5900e-003	0.3368	1.5400e-003	0.3383	0.0893	1.4200e-003	0.0908		267.3330	267.3330	8.0600e-003	7.7100e-003	269.8314
Total	0.1046	0.0701	0.8927	2.5900e-003	0.3368	1.5400e-003	0.3383	0.0893	1.4200e-003	0.0908		267.3330	267.3330	8.0600e-003	7.7100e-003	269.8314

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 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	6.9945					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
Total	7.1753	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

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	0.1046	0.0701	0.8927	2.5900e-003	0.3368	1.5400e-003	0.3383	0.0893	1.4200e-003	0.0908		267.3330	267.3330	8.0600e-003	7.7100e-003	269.8314
Total	0.1046	0.0701	0.8927	2.5900e-003	0.3368	1.5400e-003	0.3383	0.0893	1.4200e-003	0.0908		267.3330	267.3330	8.0600e-003	7.7100e-003	269.8314

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.0100	4.6412	29.9940	0.0546	5.7514	0.0499	5.8013	1.5351	0.0469	1.5820		5,646.7045	5,646.7045	0.4015	0.3222	5,752.7718
Unmitigated	3.2155	5.1315	32.9577	0.0617	6.5208	0.0560	6.5769	1.7405	0.0526	1.7931		6,377.2613	6,377.2613	0.4326	0.3555	6,494.0263

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,077.12	972.18	809.82	2,933,128	2,587,019
Parking Lot	0.00	0.00	0.00		
Total	1,077.12	972.18	809.82	2,933,128	2,587,019

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	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

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.466187	0.061512	0.210180	0.153350	0.034639	0.008391	0.014417	0.011935	0.000556	0.000412	0.031993	0.000977	0.005450
Parking Lot	0.466187	0.061512	0.210180	0.153350	0.034639	0.008391	0.014417	0.011935	0.000556	0.000412	0.031993	0.000977	0.005450

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	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
NaturalGas Unmitigated	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5107.98	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
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
Total		0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	5.10798	0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102
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
Total		0.0551	0.4707	0.2003	3.0000e-003		0.0381	0.0381		0.0381	0.0381		600.9391	600.9391	0.0115	0.0110	604.5102

6.0 Area Detail

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.0429	29.4924	1,105.5352	5.0587	0.0000	1,232.0030
Unmitigated	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.0429	29.4924	1,105.5352	5.0587	0.0000	1,232.0030

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2884					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.9209	0.7290	44.6893	0.1458		7.2903	7.2903		7.2903	7.2903	1,076.042 9	0.0000	1,076.042 9	5.0303	0.0000	1,201.799 9
Landscaping	0.4944	0.1885	16.3652	8.7000e-004		0.0906	0.0906		0.0906	0.0906		29.4924	29.4924	0.0284		30.2031
Total	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.042 9	29.4924	1,105.535 2	5.0587	0.0000	1,232.003 0

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6899					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.2884					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	4.9209	0.7290	44.6893	0.1458		7.2903	7.2903		7.2903	7.2903	1,076.042 9	0.0000	1,076.042 9	5.0303	0.0000	1,201.799 9
Landscaping	0.4944	0.1885	16.3652	8.7000e-004		0.0906	0.0906		0.0906	0.0906		29.4924	29.4924	0.0284		30.2031
Total	10.3935	0.9175	61.0545	0.1467		7.3809	7.3809		7.3809	7.3809	1,076.042 9	29.4924	1,105.535 2	5.0587	0.0000	1,232.003 0

7.0 Water Detail

7.1 Mitigation Measures Water

Hayden Parkway Apartments Project - Placer County APCD Air District, Winter

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

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Hayden Parkway Apartments Project

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

Placer County APCD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	6	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Hayden Parkway Apartments Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	3.43900E-002	2.33840E-001	3.26020E-001	5.30000E-004	1.26400E-002	1.26400E-002	0.00000E+000	4.59586E+001	4.59586E+001	2.75000E-003	0.00000E+000	4.60272E+001
Cranes	5.53400E-002	6.01310E-001	2.88730E-001	9.10000E-004	2.50800E-002	2.30700E-002	0.00000E+000	7.98449E+001	7.98449E+001	2.58200E-002	0.00000E+000	8.04905E+001
Excavators	2.02000E-003	1.77700E-002	3.25500E-002	5.00000E-005	8.60000E-004	7.90000E-004	0.00000E+000	4.53606E+000	4.53606E+000	1.47000E-003	0.00000E+000	4.57274E+000
Forklifts	5.54900E-002	5.18880E-001	6.18380E-001	8.30000E-004	3.21100E-002	2.95400E-002	0.00000E+000	7.25173E+001	7.25173E+001	2.34500E-002	0.00000E+000	7.31037E+001
Generator Sets	5.50700E-002	4.89270E-001	6.60500E-001	1.18000E-003	2.30600E-002	2.30600E-002	0.00000E+000	1.01737E+002	1.01737E+002	4.47000E-003	0.00000E+000	1.01849E+002
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	4.14000E-003	4.19800E-002	5.76800E-002	9.00000E-005	1.99000E-003	1.83000E-003	0.00000E+000	8.26006E+000	8.26006E+000	2.67000E-003	0.00000E+000	8.32685E+000
Paving Equipment	3.56000E-003	3.47500E-002	5.09200E-002	8.00000E-005	1.70000E-003	1.56000E-003	0.00000E+000	7.15711E+000	7.15711E+000	2.31000E-003	0.00000E+000	7.21498E+000
Rollers	3.33000E-003	3.45200E-002	3.72100E-002	5.00000E-005	1.99000E-003	1.83000E-003	0.00000E+000	4.61038E+000	4.61038E+000	1.49000E-003	0.00000E+000	4.64766E+000
Rubber Tired Dozers	8.37000E-003	8.79400E-002	3.58200E-002	9.00000E-005	4.17000E-003	3.84000E-003	0.00000E+000	7.50274E+000	7.50274E+000	2.43000E-003	0.00000E+000	7.56340E+000
Tractors/Loaders/Backhoes	7.67700E-002	7.78430E-001	1.12214E+000	1.57000E-003	3.87600E-002	3.56600E-002	0.00000E+000	1.37461E+002	1.37461E+002	4.44600E-002	0.00000E+000	1.38572E+002
Welders	4.58300E-002	2.55640E-001	3.02070E-001	4.60000E-004	9.93000E-003	9.93000E-003	0.00000E+000	3.38797E+001	3.38797E+001	3.71000E-003	0.00000E+000	3.39724E+001

Hayden Parkway Apartments Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	3.43900E-002	2.33840E-001	3.26020E-001	5.30000E-004	1.26400E-002	1.26400E-002	0.00000E+000	4.59585E+001	4.59585E+001	2.75000E-003	0.00000E+000	4.60272E+001
Cranes	5.53400E-002	6.01310E-001	2.88730E-001	9.10000E-004	2.50800E-002	2.30700E-002	0.00000E+000	7.98449E+001	7.98449E+001	2.58200E-002	0.00000E+000	8.04904E+001
Excavators	2.02000E-003	1.77700E-002	3.25500E-002	5.00000E-005	8.60000E-004	7.90000E-004	0.00000E+000	4.53606E+000	4.53606E+000	1.47000E-003	0.00000E+000	4.57273E+000
Forklifts	5.54900E-002	5.18880E-001	6.18380E-001	8.30000E-004	3.21100E-002	2.95400E-002	0.00000E+000	7.25172E+001	7.25172E+001	2.34500E-002	0.00000E+000	7.31036E+001
Generator Sets	5.50700E-002	4.89270E-001	6.60490E-001	1.18000E-003	2.30600E-002	2.30600E-002	0.00000E+000	1.01737E+002	1.01737E+002	4.47000E-003	0.00000E+000	1.01849E+002
Graders	4.15000E-003	5.25800E-002	1.72200E-002	7.00000E-005	1.67000E-003	1.54000E-003	0.00000E+000	5.81758E+000	5.81758E+000	1.88000E-003	0.00000E+000	5.86462E+000
Pavers	4.14000E-003	4.19800E-002	5.76800E-002	9.00000E-005	1.99000E-003	1.83000E-003	0.00000E+000	8.26005E+000	8.26005E+000	2.67000E-003	0.00000E+000	8.32684E+000
Paving Equipment	3.56000E-003	3.47500E-002	5.09200E-002	8.00000E-005	1.70000E-003	1.56000E-003	0.00000E+000	7.15711E+000	7.15711E+000	2.31000E-003	0.00000E+000	7.21497E+000
Rollers	3.33000E-003	3.45200E-002	3.72100E-002	5.00000E-005	1.99000E-003	1.83000E-003	0.00000E+000	4.61038E+000	4.61038E+000	1.49000E-003	0.00000E+000	4.64765E+000
Rubber Tired Dozers	8.37000E-003	8.79400E-002	3.58200E-002	9.00000E-005	4.17000E-003	3.84000E-003	0.00000E+000	7.50273E+000	7.50273E+000	2.43000E-003	0.00000E+000	7.56339E+000
Tractors/Loaders/Balckhoes	7.67700E-002	7.78430E-001	1.12214E+000	1.57000E-003	3.87600E-002	3.56600E-002	0.00000E+000	1.37461E+002	1.37461E+002	4.44600E-002	0.00000E+000	1.38572E+002
Welders	4.58300E-002	2.55640E-001	3.02070E-001	4.60000E-004	9.93000E-003	9.93000E-003	0.00000E+000	3.38797E+001	3.38797E+001	3.71000E-003	0.00000E+000	3.39724E+001

Hayden Parkway Apartments Project

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30552E-006	1.30552E-006	0.00000E+000	0.00000E+000	1.08631E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12718E-006	1.12718E-006	0.00000E+000	0.00000E+000	1.24238E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.18687E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.24108E-006	1.24108E-006	0.00000E+000	0.00000E+000	1.23113E-006
Generator Sets	0.00000E+000	0.00000E+000	1.51400E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17821E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21064E-006	1.21064E-006	0.00000E+000	0.00000E+000	1.20093E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.38601E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15162E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33285E-006	1.33285E-006	0.00000E+000	0.00000E+000	1.32216E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16397E-006	1.16397E-006	0.00000E+000	0.00000E+000	1.22680E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18065E-006	1.18065E-006	0.00000E+000	0.00000E+000	1.17743E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
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No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	

Hayden Parkway Apartments Project

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

No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.06	0.02	0.06	0.02	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.34	0.09	0.34	0.09	0.00	0.00
Grading	Fugitive Dust	0.07	0.03	0.07	0.03	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

[illegible]

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Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	6.05	9.61	9.31	11.46	10.95	10.89	0.00	11.47	11.47	7.51	9.44	11.43
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.09	0.31		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.23	0.06		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.10			
Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			

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	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.12		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.12		

Hayden Parkway Apartments Project**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied****Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00

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

DishWasher	15.00
Fan	50.00
Refrigerator	15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
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Hayden Parkway Apartments Project

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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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