

Air Quality Emissions Existing/Proposed Project

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: County

Region: El Dorado

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed, kWh/day for Energy Consumption

Existing Conditions

	Vol	Delay	NOX (g)	NOX(pounds)	PM2.5 (g)	PM2.5(pounds)	PM10 (g)	PM10 (pounds)	ROG (g)	ROG (pounds)	Co (g)	CO (pounds)
1 AM	3275	26	306.8338	0.6764	7.5407	0.0166	7.9014	0.0174	47.9276	0.1057	332.6847	0.7334
1 PM	3563	21	269.6209	0.5944	6.6262	0.0146	6.9431	0.0153	42.115	0.0928	292.3367	0.6445
2 AM	1054	18	68.3647	0.1507	1.6801	0.0037	1.7605	0.0039	10.6786	0.0235	74.1244	0.1634
2 PM	1216	22	96.3995	0.2125	2.3691	0.0052	2.4824	0.0055	15.0577	0.0332	104.5212	0.2304
3 AM	986	20	71.06	0.1567	1.7464	0.0039	1.8299	0.004	11.0996	0.0245	77.0469	0.1699
3 PM	1087	15	58.7543	0.1295	1.4439	0.0032	1.513	0.0033	9.1775	0.0202	63.7043	0.1404
4 AM	1156	8	33.3247	0.0735	0.819	0.0018	0.8582	0.0019	5.2053	0.0115	36.1323	0.0797
4 PM	1271	10	45.7999	0.101	1.1256	0.0025	1.1794	0.0026	7.154	0.0158	49.6585	0.1095
5 AM	1001	30	108.2116	0.2386	2.6594	0.0059	2.7866	0.0061	16.9027	0.0373	117.3285	0.2587
5 PM	930	24	80.429	0.1773	1.9766	0.0044	2.0712	0.0046	12.5631	0.0277	87.2052	0.1923
				13.8515		0.3404		0.3567		2.1636		15.0185

Proposed Project

	Vol	Delay	NOX (g)	NOX(pounds)	PM2.5 (g)	PM2.5(pounds)	PM10 (g)	PM10 (pounds)	ROG (g)	ROG (pounds)	Co (g)	CO (pounds)
1 AM	3275	27	318.6351	0.7025	7.8307	0.0173	8.2053	0.0181	49.771	0.1097	345.4803	0.7616
1 PM	3563	21	269.6209	0.5944	6.6262	0.0146	6.9431	0.0153	42.115	0.0928	292.3367	0.6445
2 AM	1054	17	64.5666	0.1423	1.5868	0.0035	1.6627	0.0037	10.0853	0.0222	70.0064	0.1543
2 PM	1216	20	87.6359	0.1932	2.1537	0.0047	2.2567	0.005	13.6888	0.0302	95.0193	0.2095
3 AM	0											
3 PM	0											
4 AM	1215	12	52.5383	0.1158	1.2912	0.0028	1.3529	0.003	8.2065	0.0181	56.9647	0.1256
4 PM	1346	15	72.7537	0.1604	1.788	0.0039	1.8735	0.0041	11.3642	0.0251	78.8832	0.1739
5 AM	1001	20	72.1411	0.159	1.7729	0.0039	1.8577	0.0041	11.2685	0.0248	78.219	0.1724
5 PM	930	18	60.3218	0.133	1.4825	0.0033	1.5534	0.0034	9.4223	0.0208	65.4039	0.1442
				12.1509		0.2986		0.3129		1.898		13.1746

Cumulative Air Quality Emissions Existing/Proposed Project

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: County

Region: El Dorado

Calendar Year: 2035

Season: Annual

Vehicle Classification: EMFAC202x Categories

Units: miles/day for CVMT and EVMT, tons/day for Emissions, 1000 gallons/day for Fuel Consumption, mph for Speed, kWh/day for Energy Consumption

Cumulative Conditions - No Project

	Vol	Delay	NOX (g)	NOX(pounds)	PM2.5 (g)	PM2.5(pounds)	PM10 (g)	PM10 (pounds)	ROG (g)	ROG (pounds)	CO (g)	CO (pounds)
1 AM	4650	95	872.7298	1.9240	19.0704	0.0420	19.9945	0.0441	110.0992	0.2427	857.4230	1.8903
1 PM	5240	93	962.7588	2.1225	21.0376	0.0464	22.0571	0.0486	121.4568	0.2678	945.8729	2.0853
2 AM	1770	38	132.8802	0.2929	2.9036	0.0064	3.0443	0.0067	16.7635	0.0370	130.5496	0.2878
2 PM	1830	113	408.5383	0.9007	8.9271	0.0197	9.3597	0.0206	51.5391	0.1136	401.3729	0.8849
3 AM	1395	53	146.0674	0.3220	3.1918	0.0070	3.3464	0.0074	18.4271	0.0406	143.5055	0.3164
3 PM	1510	79	235.6716	0.5196	5.1498	0.0114	5.3993	0.0119	29.7311	0.0655	231.5382	0.5104
4 AM	1880	38	141.1382	0.3112	3.0841	0.0068	3.2335	0.0071	17.8053	0.0393	138.6628	0.3057
4 PM	2030	73	292.7670	0.6454	6.3974	0.0141	6.7074	0.0148	36.9340	0.0814	287.6322	0.6341
5 AM	1620	47	150.4236	0.3316	3.2870	0.0072	3.4463	0.0076	18.9767	0.0418	147.7854	0.3258
5 PM	1690	84	280.4589	0.6183	6.1284	0.0135	6.4254	0.0142	35.3813	0.0780	275.5399	0.6075
				48.0643		1.0503		1.1012		6.0635		47.2213

Cumulative Conditions - Project

	Vol	Delay	NOX (g)	NOX(pounds)	PM2.5 (g)	PM2.5(pounds)	PM10 (g)	PM10 (pounds)	ROG (g)	ROG (pounds)	CO (g)	CO (pounds)
1 AM	4650	94	863.5432	1.9038	18.8696	0.0416	19.7840	0.0436	108.9402	0.2402	848.3975	1.8704
1 PM	5240	88	910.9975	2.0084	19.9066	0.0439	20.8712	0.0460	114.9268	0.2534	895.0196	1.9731
2 AM	1770	38	132.8802	0.2929	2.9036	0.0064	3.0443	0.0067	16.7635	0.0370	130.5496	0.2878
2 PM	1830	76	274.7691	0.6058	6.0041	0.0132	6.2950	0.0139	34.6635	0.0764	269.9499	0.5951
3 AM	0											
3 PM	0											
4 AM	1950	32	123.2786	0.2718	2.6938	0.0059	2.8244	0.0062	15.5522	0.0343	121.1165	0.2670
4 PM	2115	45	188.0296	0.4145	4.1087	0.0091	4.3078	0.0095	23.7209	0.0523	184.7317	0.4073
5 AM	1620	29	92.8146	0.2046	2.0281	0.0045	2.1264	0.0047	11.7090	0.0258	91.1867	0.2010
5 PM	1690	50	166.9398	0.3680	3.6479	0.0080	3.8246	0.0084	21.0603	0.0464	164.0119	0.3616
				31.2865		0.6837		0.7168		3.9469		30.7378