

Appendix D Air Quality, Energy, and GHG Analysis Data

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Compton GPU: Existing Conditions (2023) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Compton GPU: Existing Conditions (2023)
Operational Year	2023
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	17.8
Location	Compton, CA, USA
County	Los Angeles-South Coast
City	Compton
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4266
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	22,326	Dwelling Unit	2,581	43,535,700	261,501,246	—	85,127	—

Apartments Low Rise	5,921	Dwelling Unit	285	6,276,260	0.00	—	22,563	—
Regional Shopping Center	3,526	1000sqft	348	3,525,714	0.00	—	—	—
Automobile Care Center	173	1000sqft	24.6	173,223	0.00	—	—	—
Hotel	149	Room	9.60	216,069	0.00	—	—	—
General Office Building	674	1000sqft	30.0	674,319	0.00	—	—	—
Industrial Park	16,265	1000sqft	1,142	16,264,525	0.00	—	—	—
Government Office Building	773	1000sqft	54.5	772,623	0.00	—	—	—
Place of Worship	401	1000sqft	59.4	401,347	0.00	—	—	—
Elementary School	3,277	1000sqft	479	3,276,946	0.00	0.00	—	—
City Park	102	Acre	102	0.00	0.00	0.00	—	—
Golf Course	11.9	Acre	11.9	0.00	0.00	0.00	—	—
Unenclosed Parking with Elevator	52.0	1000sqft	1.20	52,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	12,311	11,285	2,408	32,694	71.4	2,073	2,772	4,845	2,034	704	2,738	307,819	4,876,236	5,184,055	5,409	178	54,699	5,426,917
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11,930	10,925	2,520	28,803	69.9	2,070	2,772	4,842	2,032	704	2,736	307,819	4,727,344	5,035,163	5,418	185	41,234	5,266,997
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4,538	4,265	2,006	17,629	36.2	193	2,739	2,932	189	696	885	61,354	4,298,149	4,359,503	4,681	177	46,840	4,576,004
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	828	778	366	3,217	6.60	35.3	500	535	34.4	127	161	10,158	711,608	721,765	775	29.2	7,755	757,610

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,974	1,796	1,403	15,402	32.1	22.1	2,772	2,795	20.6	704	725	—	3,284,600	3,284,600	173	135	13,823	3,342,894
Area	10,292	9,466	612	17,061	36.8	2,019	—	2,019	1,982	—	1,982	264,587	514,370	778,958	789	9.66	—	801,567
Energy	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	1,018,937	1,018,937	93.4	7.01	—	1,023,363
Water	—	—	—	—	—	—	—	—	—	—	—	10,494	58,329	68,823	1,082	26.2	—	103,680
Waste	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Total	12,311	11,285	2,408	32,694	71.4	2,073	2,772	4,845	2,034	704	2,738	307,819	4,876,236	5,184,055	5,409	178	54,699	5,426,917

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,947	1,766	1,540	14,207	30.8	22.2	2,772	2,795	20.6	704	725	—	3,144,527	3,144,527	182	142	358	3,191,825
Area	9,938	9,136	586	14,365	36.6	2,017	—	2,017	1,980	—	1,980	264,587	505,551	770,138	789	9.59	—	792,716
Energy	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	1,018,937	1,018,937	93.4	7.01	—	1,023,363
Water	—	—	—	—	—	—	—	—	—	—	—	10,494	58,329	68,823	1,082	26.2	—	103,680
Waste	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Total	11,930	10,925	2,520	28,803	69.9	2,070	2,772	4,842	2,032	704	2,736	307,819	4,727,344	5,035,163	5,418	185	41,234	5,266,997
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,933	1,754	1,555	14,568	31.1	22.1	2,739	2,761	20.6	696	716	—	3,180,216	3,180,216	180	143	5,965	3,233,190
Area	2,560	2,489	57.6	2,830	2.60	140	—	140	137	—	137	18,122	40,668	58,790	54.3	0.71	—	60,358
Energy	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	1,018,937	1,018,937	93.4	7.01	—	1,023,363
Water	—	—	—	—	—	—	—	—	—	—	—	10,494	58,329	68,823	1,082	26.2	—	103,680
Waste	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Total	4,538	4,265	2,006	17,629	36.2	193	2,739	2,932	189	696	885	61,354	4,298,149	4,359,503	4,681	177	46,840	4,576,004
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	353	320	284	2,659	5.68	4.04	500	504	3.76	127	131	—	526,521	526,521	29.8	23.6	988	535,291
Area	467	454	10.5	517	0.47	25.6	—	25.6	25.0	—	25.0	3,000	6,733	9,733	8.99	0.12	—	9,993
Energy	8.21	4.10	71.8	42.1	0.45	5.67	—	5.67	5.67	—	5.67	—	168,697	168,697	15.5	1.16	—	169,429
Water	—	—	—	—	—	—	—	—	—	—	—	1,737	9,657	11,394	179	4.34	—	17,165
Waste	—	—	—	—	—	—	—	—	—	—	—	5,420	0.00	5,420	542	0.00	—	18,963
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,767	6,767

Total	828	778	366	3,217	6.60	35.3	500	535	34.4	127	161	10,158	711,608	721,765	775	29.2	7,755	757,610
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4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	650	592	464	5,101	10.7	7.34	920	927	6.83	234	240	—	1,089,677	1,089,677	57.2	44.6	4,587	1,108,983
Apartments Low Rise	172	157	123	1,353	2.83	1.95	244	246	1.81	62.0	63.8	—	288,989	288,989	15.2	11.8	1,217	294,109
Regional Shopping Center	161	147	114	1,255	2.62	1.80	226	227	1.68	57.3	59.0	—	267,260	267,260	14.1	11.0	1,125	272,009
Automobile Care Center	7.92	7.21	5.61	61.6	0.13	0.09	11.1	11.2	0.08	2.81	2.89	—	13,113	13,113	0.69	0.54	55.2	13,346
Hotel	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	0.00
General Office Building	30.8	28.1	21.9	240	0.50	0.34	43.1	43.5	0.32	11.0	11.3	—	51,087	51,087	2.70	2.10	215	51,995
Industrial Park	744	678	527	5,788	12.1	8.31	1,040	1,049	7.73	264	272	—	1,232,836	1,232,836	65.2	50.6	5,188	1,254,744

Compton GPU: Existing Conditions (2023) Detailed Report, 11/8/2024

Govern Office Building	35.4	32.2	25.1	275	0.57	0.39	49.4	49.8	0.37	12.6	12.9	—	58,591	58,591	3.10	2.41	247	59,632
Place of Worship	18.4	16.7	13.0	143	0.30	0.20	25.7	25.9	0.19	6.51	6.71	—	30,395	30,395	1.61	1.25	128	30,935
Element ary School	150	137	106	1,166	2.43	1.67	210	211	1.56	53.2	54.8	—	248,386	248,386	13.1	10.2	1,045	252,800
City Park	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	0.00
Golf Course	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	0.00
Unenclo sed Parking with Elevator	2.58	2.34	1.82	20.0	0.04	0.03	3.60	3.63	0.03	0.91	0.94	—	4,265	4,265	0.23	0.18	17.9	4,341
Total	1,974	1,796	1,403	15,402	32.1	22.1	2,772	2,795	20.6	704	725	—	3,284,600	3,284,600	173	135	13,823	3,342,894
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	642	582	510	4,703	10.2	7.34	920	927	6.83	234	241	—	1,043,192	1,043,192	60.1	47.1	119	1,058,846
Apartme nts Low Rise	170	154	135	1,247	2.71	1.95	244	246	1.81	62.0	63.8	—	276,661	276,661	15.9	12.5	31.5	280,813
Regiona l Shoppin g Center	159	144	126	1,158	2.50	1.80	226	227	1.68	57.3	59.0	—	255,865	255,865	14.8	11.6	29.2	259,720
Automo bile Care Center	7.81	7.09	6.16	56.8	0.12	0.09	11.1	11.2	0.08	2.81	2.89	—	12,554	12,554	0.73	0.57	1.43	12,743
Hotel	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	0.00

General Office Building	30.4	27.6	24.0	221	0.48	0.34	43.1	43.5	0.32	11.0	11.3	—	48,909	48,909	2.84	2.22	5.57	49,646
Industrial Park	734	666	579	5,341	11.5	8.32	1,040	1,049	7.74	264	272	—	1,180,274	1,180,274	68.4	53.5	134	1,198,058
Government Office Building	34.9	31.7	27.5	254	0.55	0.40	49.4	49.8	0.37	12.6	12.9	—	56,093	56,093	3.25	2.54	6.39	56,938
Place of Worship	18.1	16.4	14.3	132	0.28	0.21	25.7	25.9	0.19	6.51	6.71	—	29,099	29,099	1.69	1.32	3.32	29,537
Elementary School	148	134	117	1,076	2.33	1.68	210	211	1.56	53.2	54.8	—	237,796	237,796	13.8	10.8	27.1	241,379
City Park	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	0.00
Golf Course	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	0.00
Unenclosed Parking with Elevator	2.54	2.31	2.00	18.5	0.04	0.03	3.60	3.63	0.03	0.91	0.94	—	4,083	4,083	0.24	0.19	0.47	4,145
Total	1,947	1,766	1,540	14,207	30.8	22.2	2,772	2,795	20.6	704	725	—	3,144,527	3,144,527	182	142	358	3,191,825
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	116	105	94.0	881	1.88	1.34	166	167	1.25	42.2	43.4	—	174,788	174,788	9.86	7.82	328	177,694
Apartments Low Rise	30.9	28.0	24.9	234	0.50	0.36	44.0	44.4	0.33	11.2	11.5	—	46,355	46,355	2.62	2.07	87.0	47,126
Regional Shopping Center	28.9	26.2	23.1	217	0.46	0.33	40.7	41.0	0.31	10.3	10.6	—	42,870	42,870	2.44	1.93	80.4	43,585

Automo Care Center	1.42	1.29	1.14	10.6	0.02	0.02	2.00	2.01	0.02	0.51	0.52	—	2,103	2,103	0.12	0.09	3.94	2,138
Hotel	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	0.00
General Office Building	5.52	5.01	4.42	41.4	0.09	0.06	7.78	7.84	0.06	1.98	2.03	—	8,195	8,195	0.47	0.37	15.4	8,331
Industria l Park	133	121	107	1,000	2.13	1.52	188	189	1.41	47.7	49.1	—	197,755	197,755	11.2	8.88	371	201,054
Govern ment Office Building	6.12	5.56	4.91	46.0	0.10	0.07	8.63	8.70	0.06	2.19	2.26	—	9,096	9,096	0.52	0.41	17.1	9,247
Place of Worship	3.28	2.98	2.63	24.7	0.05	0.04	4.63	4.67	0.03	1.18	1.21	—	4,875	4,875	0.28	0.22	9.14	4,957
Element ary School	26.8	24.3	21.5	201	0.43	0.31	37.8	38.1	0.28	9.61	9.89	—	39,843	39,843	2.26	1.79	74.7	40,508
City Park	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	0.00
Golf Course	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	0.00
Unenclo sed Parking with Elevator	0.43	0.39	0.35	3.23	0.01	< 0.005	0.61	0.61	< 0.005	0.15	0.16	—	640	640	0.04	0.03	1.20	650
Total	353	320	284	2,659	5.68	4.04	500	504	3.76	127	131	—	526,521	526,521	29.8	23.6	988	535,291

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	147,040	147,040	13.9	1.69	—	147,891
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	21,689	21,689	2.05	0.25	—	21,815
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	33,075	33,075	3.13	0.38	—	33,266
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	1,587	1,587	0.15	0.02	—	1,596
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	2,888	2,888	0.27	0.03	—	2,905
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11,478	11,478	1.09	0.13	—	11,544
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	276,845	276,845	26.2	3.18	—	278,447
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	13,151	13,151	1.24	0.15	—	13,227
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	3,677	3,677	0.35	0.04	—	3,699
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	19,576	19,576	1.85	0.22	—	19,690
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.01	< 0.005	—	141
Total	—	—	—	—	—	—	—	—	—	—	—	—	531,148	531,148	50.3	6.09	—	534,221
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	147,040	147,040	13.9	1.69	—	147,891
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	21,689	21,689	2.05	0.25	—	21,815
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	33,075	33,075	3.13	0.38	—	33,266
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	1,587	1,587	0.15	0.02	—	1,596
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	2,888	2,888	0.27	0.03	—	2,905
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	11,478	11,478	1.09	0.13	—	11,544
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	276,845	276,845	26.2	3.18	—	278,447
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	13,151	13,151	1.24	0.15	—	13,227

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	3,677	3,677	0.35	0.04	—	3,699
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	19,576	19,576	1.85	0.22	—	19,690
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	140	140	0.01	< 0.005	—	141
Total	—	—	—	—	—	—	—	—	—	—	—	—	531,148	531,148	50.3	6.09	—	534,221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	24,344	24,344	2.30	0.28	—	24,485
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,591	3,591	0.34	0.04	—	3,612
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	—	5,476	5,476	0.52	0.06	—	5,508
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	263	263	0.02	< 0.005	—	264
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	478	478	0.05	0.01	—	481
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,900	1,900	0.18	0.02	—	1,911

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	45,835	45,835	4.34	0.53	—	46,100
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,177	2,177	0.21	0.02	—	2,190
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	609	609	0.06	0.01	—	612
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	3,241	3,241	0.31	0.04	—	3,260
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	23.2	23.2	< 0.005	< 0.005	—	23.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	87,938	87,938	8.32	1.01	—	88,446

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	25.3	12.6	216	92.0	1.38	17.5	—	17.5	17.5	—	17.5	—	274,295	274,295	24.3	0.52	—	275,056
Apartments Low Rise	2.85	1.43	24.4	10.4	0.16	1.97	—	1.97	1.97	—	1.97	—	30,942	30,942	2.74	0.06	—	31,027

Regional Shopping Center	0.62	0.31	5.67	4.76	0.03	0.43	—	0.43	0.43	—	0.43	—	6,765	6,765	0.60	0.01	—	6,784
Automobile Care Center	0.22	0.11	1.99	1.67	0.01	0.15	—	0.15	0.15	—	0.15	—	2,376	2,376	0.21	< 0.005	—	2,383
Hotel	0.18	0.09	1.68	1.41	0.01	0.13	—	0.13	0.13	—	0.13	—	1,999	1,999	0.18	< 0.005	—	2,005
General Office Building	0.50	0.25	4.59	3.86	0.03	0.35	—	0.35	0.35	—	0.35	—	5,478	5,478	0.48	0.01	—	5,493
Industrial Park	12.2	6.09	111	93.0	0.66	8.42	—	8.42	8.42	—	8.42	—	132,120	132,120	11.7	0.25	—	132,486
Government Office Building	0.58	0.29	5.26	4.42	0.03	0.40	—	0.40	0.40	—	0.40	—	6,276	6,276	0.56	0.01	—	6,294
Place of Worship	0.51	0.25	4.61	3.88	0.03	0.35	—	0.35	0.35	—	0.35	—	5,505	5,505	0.49	0.01	—	5,521
Elementary School	2.03	1.02	18.5	15.5	0.11	1.40	—	1.40	1.40	—	1.40	—	22,033	22,033	1.95	0.04	—	22,094
City Park	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
Golf Course	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
Unenclosed Parking with Elevator	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
Total	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	487,789	487,789	43.2	0.92	—	489,142
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	25.3	12.6	216	92.0	1.38	17.5	—	17.5	17.5	—	17.5	—	274,295	274,295	24.3	0.52	—	275,056
Apartments Low Rise	2.85	1.43	24.4	10.4	0.16	1.97	—	1.97	1.97	—	1.97	—	30,942	30,942	2.74	0.06	—	31,027
Regional Shopping Center	0.62	0.31	5.67	4.76	0.03	0.43	—	0.43	0.43	—	0.43	—	6,765	6,765	0.60	0.01	—	6,784
Automobile Care Center	0.22	0.11	1.99	1.67	0.01	0.15	—	0.15	0.15	—	0.15	—	2,376	2,376	0.21	< 0.005	—	2,383
Hotel	0.18	0.09	1.68	1.41	0.01	0.13	—	0.13	0.13	—	0.13	—	1,999	1,999	0.18	< 0.005	—	2,005
General Office Building	0.50	0.25	4.59	3.86	0.03	0.35	—	0.35	0.35	—	0.35	—	5,478	5,478	0.48	0.01	—	5,493
Industrial Park	12.2	6.09	111	93.0	0.66	8.42	—	8.42	8.42	—	8.42	—	132,120	132,120	11.7	0.25	—	132,486
Government Office Building	0.58	0.29	5.26	4.42	0.03	0.40	—	0.40	0.40	—	0.40	—	6,276	6,276	0.56	0.01	—	6,294
Place of Worship	0.51	0.25	4.61	3.88	0.03	0.35	—	0.35	0.35	—	0.35	—	5,505	5,505	0.49	0.01	—	5,521
Elementary School	2.03	1.02	18.5	15.5	0.11	1.40	—	1.40	1.40	—	1.40	—	22,033	22,033	1.95	0.04	—	22,094
City Park	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
Golf Course	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

Unenclosed Parking with Elevator	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
Total	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	487,789	487,789	43.2	0.92	—	489,142
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.62	2.31	39.4	16.8	0.25	3.19	—	3.19	3.19	—	3.19	—	45,413	45,413	4.02	0.09	—	45,539
Apartments Low Rise	0.52	0.26	4.45	1.89	0.03	0.36	—	0.36	0.36	—	0.36	—	5,123	5,123	0.45	0.01	—	5,137
Regional Shopping Center	0.11	0.06	1.03	0.87	0.01	0.08	—	0.08	0.08	—	0.08	—	1,120	1,120	0.10	< 0.005	—	1,123
Automobile Care Center	0.04	0.02	0.36	0.31	< 0.005	0.03	—	0.03	0.03	—	0.03	—	393	393	0.03	< 0.005	—	394
Hotel	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	331	331	0.03	< 0.005	—	332
General Office Building	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	907	907	0.08	< 0.005	—	909
Industrial Park	2.22	1.11	20.2	17.0	0.12	1.54	—	1.54	1.54	—	1.54	—	21,874	21,874	1.94	0.04	—	21,935
Government Office Building	0.11	0.05	0.96	0.81	0.01	0.07	—	0.07	0.07	—	0.07	—	1,039	1,039	0.09	< 0.005	—	1,042
Place of Worship	0.09	0.05	0.84	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	911	911	0.08	< 0.005	—	914
Elementary School	0.37	0.19	3.37	2.83	0.02	0.26	—	0.26	0.26	—	0.26	—	3,648	3,648	0.32	0.01	—	3,658

City Park	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
Golf Course	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
Unenclosed Parking with Elevator	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
Total	8.21	4.10	71.8	42.1	0.45	5.67	—	5.67	5.67	—	5.67	—	80,759	80,759	7.15	0.15	—	80,983

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	8,181	7,378	586	14,365	36.6	2,017	—	2,017	1,980	—	1,980	264,587	505,551	770,138	789	9.59	—	792,716
Consumer Products	1,608	1,608	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	150	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	354	331	25.5	2,696	0.14	2.84	—	2.84	2.15	—	2.15	—	8,820	8,820	0.37	0.07	—	8,851
Total	10,292	9,466	612	17,061	36.8	2,019	—	2,019	1,982	—	1,982	264,587	514,370	778,958	789	9.66	—	801,567

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	8,181	7,378	586	14,365	36.6	2,017	—	2,017	1,980	—	1,980	264,587	505,551	770,138	789	9.59	—	792,716
Consumer Products	1,608	1,608	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	150	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9,938	9,136	586	14,365	36.6	2,017	—	2,017	1,980	—	1,980	264,587	505,551	770,138	789	9.59	—	792,716
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	102	92.2	7.33	180	0.46	25.2	—	25.2	24.7	—	24.7	3,000	5,733	8,733	8.95	0.11	—	8,989
Consumer Products	293	293	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	27.3	27.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	44.2	41.3	3.18	337	0.02	0.36	—	0.36	0.27	—	0.27	—	1,000	1,000	0.04	0.01	—	1,004
Total	467	454	10.5	517	0.47	25.6	—	25.6	25.0	—	25.0	3,000	6,733	9,733	8.99	0.12	—	9,993

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,595	28,132	29,726	166	4.21	—	35,135
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	423	1,435	1,858	43.5	1.05	—	3,257
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	500	1,698	2,199	51.5	1.24	—	3,855
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.2	106	137	3.21	0.08	—	240
Hotel	—	—	—	—	—	—	—	—	—	—	—	7.24	24.6	31.8	0.74	0.02	—	55.8
General Office Building	—	—	—	—	—	—	—	—	—	—	—	230	779	1,008	23.6	0.57	—	1,768
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,208	24,456	31,664	741	17.8	—	55,514
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	294	998	1,293	30.3	0.73	—	2,267
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	24.0	81.6	106	2.47	0.06	—	185
Elementary School	—	—	—	—	—	—	—	—	—	—	—	182	618	800	18.7	0.45	—	1,402
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unenclo Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10,494	58,329	68,823	1,082	26.2	—	103,680
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,595	28,132	29,726	166	4.21	—	35,135
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	423	1,435	1,858	43.5	1.05	—	3,257
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	500	1,698	2,199	51.5	1.24	—	3,855
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.2	106	137	3.21	0.08	—	240
Hotel	—	—	—	—	—	—	—	—	—	—	—	7.24	24.6	31.8	0.74	0.02	—	55.8
General Office Building	—	—	—	—	—	—	—	—	—	—	—	230	779	1,008	23.6	0.57	—	1,768
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	7,208	24,456	31,664	741	17.8	—	55,514
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	294	998	1,293	30.3	0.73	—	2,267
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	24.0	81.6	106	2.47	0.06	—	185

Elementary School	—	—	—	—	—	—	—	—	—	—	—	182	618	800	18.7	0.45	—	1,402
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10,494	58,329	68,823	1,082	26.2	—	103,680
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	264	4,658	4,922	27.5	0.70	—	5,817
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	70.0	238	308	7.20	0.17	—	539
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	82.9	281	364	8.52	0.21	—	638
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	5.16	17.5	22.7	0.53	0.01	—	39.8
Hotel	—	—	—	—	—	—	—	—	—	—	—	1.20	4.07	5.27	0.12	< 0.005	—	9.24
General Office Building	—	—	—	—	—	—	—	—	—	—	—	38.0	129	167	3.91	0.09	—	293
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,193	4,049	5,242	123	2.95	—	9,191

Govern ment	—	—	—	—	—	—	—	—	—	—	—	48.7	165	214	5.01	0.12	—	375
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.98	13.5	17.5	0.41	0.01	—	30.7
Element ary School	—	—	—	—	—	—	—	—	—	—	—	30.1	102	132	3.10	0.07	—	232
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,737	9,657	11,394	179	4.34	—	17,165

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12,171	0.00	12,171	1,216	0.00	—	42,583
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,038	0.00	3,038	304	0.00	—	10,628

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,995	0.00	1,995	199	0.00	—	6,981
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	356	0.00	356	35.6	0.00	—	1,246
Hotel	—	—	—	—	—	—	—	—	—	—	—	44.0	0.00	44.0	4.39	0.00	—	154
General Office Building	—	—	—	—	—	—	—	—	—	—	—	338	0.00	338	33.8	0.00	—	1,182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10,870	0.00	10,870	1,086	0.00	—	38,029
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,356
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1,232	0.00	1,232	123	0.00	—	4,310
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2,296	0.00	2,296	229	0.00	—	8,033
City Park	—	—	—	—	—	—	—	—	—	—	—	4.71	0.00	4.71	0.47	0.00	—	16.5
Golf Course	—	—	—	—	—	—	—	—	—	—	—	5.96	0.00	5.96	0.60	0.00	—	20.9
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12,171	0.00	12,171	1,216	0.00	—	42,583
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,038	0.00	3,038	304	0.00	—	10,628
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,995	0.00	1,995	199	0.00	—	6,981
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	356	0.00	356	35.6	0.00	—	1,246
Hotel	—	—	—	—	—	—	—	—	—	—	—	44.0	0.00	44.0	4.39	0.00	—	154
General Office Building	—	—	—	—	—	—	—	—	—	—	—	338	0.00	338	33.8	0.00	—	1,182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10,870	0.00	10,870	1,086	0.00	—	38,029
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,356
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1,232	0.00	1,232	123	0.00	—	4,310
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2,296	0.00	2,296	229	0.00	—	8,033
City Park	—	—	—	—	—	—	—	—	—	—	—	4.71	0.00	4.71	0.47	0.00	—	16.5
Golf Course	—	—	—	—	—	—	—	—	—	—	—	5.96	0.00	5.96	0.60	0.00	—	20.9

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2,015	0.00	2,015	201	0.00	—	7,050
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	503	0.00	503	50.3	0.00	—	1,760
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	330	0.00	330	33.0	0.00	—	1,156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	59.0	0.00	59.0	5.89	0.00	—	206
Hotel	—	—	—	—	—	—	—	—	—	—	—	7.28	0.00	7.28	0.73	0.00	—	25.5
General Office Building	—	—	—	—	—	—	—	—	—	—	—	55.9	0.00	55.9	5.59	0.00	—	196
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,800	0.00	1,800	180	0.00	—	6,296
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	64.1	0.00	64.1	6.41	0.00	—	224
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20.4	0.00	—	714
Elementary School	—	—	—	—	—	—	—	—	—	—	—	380	0.00	380	38.0	0.00	—	1,330

City Park	—	—	—	—	—	—	—	—	—	—	—	0.78	0.00	0.78	0.08	0.00	—	2.73
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.99	0.00	0.99	0.10	0.00	—	3.45
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,420	0.00	5,420	542	0.00	—	18,963

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	312	312
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.0	45.0
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35,912	35,912
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	338	338

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	1.64
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,234	4,234
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88	1.88
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.55	1.55
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.7	12.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	312	312
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.0	45.0
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35,912	35,912

Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	338	338
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	1.64
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,234	4,234
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88	1.88
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.55	1.55
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.7	12.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.6	51.6
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.44	7.44
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.80	2.80
Automo bile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,946	5,946

Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55.9	55.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	701	701
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.10	2.10
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,767	6,767

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
-----------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	156,952	156,952	156,952	57,287,400	1,297,745	1,297,745	1,297,745	473,676,908
Apartments Low Rise	41,625	41,625	41,625	15,192,990	344,170	344,170	344,170	125,622,188
Regional Shopping Center	39,103	39,103	39,103	14,272,719	318,155	318,155	318,155	116,126,491

Automobile Care Center	1,919	1,919	1,919	700,278	15,610	15,610	15,610	5,697,641
Hotel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	7,475	7,475	7,475	2,728,251	60,816	60,816	60,816	22,197,747
Industrial Park	180,379	180,379	180,379	65,838,280	1,467,608	1,467,608	1,467,608	535,677,076
Government Office Building	8,186	8,573	8,573	3,028,222	66,604	69,749	69,749	24,638,388
Place of Worship	4,447	4,447	4,447	1,623,188	36,183	36,183	36,183	13,206,671
Elementary School	36,342	36,342	36,342	13,264,804	295,687	295,687	295,687	107,925,839
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	577	577	624	212,956	4,692	4,692	5,077	1,732,661

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	1116
Gas Fireplaces	18977
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2233
Conventional Wood Stoves	0
Catalytic Wood Stoves	1116

Non-Catalytic Wood Stoves	1116
Pellet Wood Stoves	0
Apartments Low Rise	—
Wood Fireplaces	296
Gas Fireplaces	5033
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	592
Conventional Wood Stoves	0
Catalytic Wood Stoves	296
Non-Catalytic Wood Stoves	296
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
100869219	33,623,073	37,959,501	12,652,644	3,136

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
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Single Family Housing	153,941,009	349	0.0330	0.0040	855,874,939
Apartments Low Rise	22,707,304	349	0.0330	0.0040	96,545,905
Regional Shopping Center	34,627,329	349	0.0330	0.0040	21,108,253
Automobile Care Center	1,661,683	349	0.0330	0.0040	7,414,281
Hotel	3,023,605	349	0.0330	0.0040	6,238,280
General Office Building	12,016,558	349	0.0330	0.0040	17,091,605
Industrial Park	289,838,492	349	0.0330	0.0040	412,248,253
Government Office Building	13,768,363	349	0.0330	0.0040	19,583,264
Place of Worship	3,850,016	349	0.0330	0.0040	17,178,431
Elementary School	20,495,153	349	0.0330	0.0040	68,749,970
City Park	0.00	349	0.0330	0.0040	0.00
Golf Course	0.00	349	0.0330	0.0040	0.00
Unenclosed Parking with Elevator	146,536	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	832,174,859	4,482,434,059
Apartments Low Rise	220,698,170	0.00
Regional Shopping Center	261,179,711	0.00
Automobile Care Center	16,276,032	0.00
Hotel	3,779,649	0.00
General Office Building	119,792,546	0.00
Industrial Park	3,761,281,250	0.00
Government Office Building	153,563,937	0.00
Place of Worship	12,546,852	0.00
Elementary School	95,022,898	0.00

City Park	0.00	0.00
Golf Course	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	22,584	—
Apartments Low Rise	5,637	—
Regional Shopping Center	3,702	—
Automobile Care Center	661	—
Hotel	81.6	—
General Office Building	627	—
Industrial Park	20,169	—
Government Office Building	719	—
Place of Worship	2,286	—
Elementary School	4,260	—
City Park	8.74	—
Golf Course	11.1	—
Unenclosed Parking with Elevator	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Golf Course	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	6.58	annual days of extreme heat
Extreme Precipitation	4.40	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	29.9
AQ-PM	86.0
AQ-DPM	54.0
Drinking Water	55.3
Lead Risk Housing	88.5
Pesticides	0.00
Toxic Releases	99.3
Traffic	31.4
Effect Indicators	—
CleanUp Sites	65.0
Groundwater	66.1
Haz Waste Facilities/Generators	85.5
Impaired Water Bodies	66.7
Solid Waste	60.5
Sensitive Population	—
Asthma	95.0
Cardio-vascular	79.7
Low Birth Weights	96.4
Socioeconomic Factor Indicators	—
Education	93.8
Housing	99.0
Linguistic	50.5
Poverty	92.6
Unemployment	84.0

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	14.88515334
Employed	9.919158219
Median HI	6.916463493
Education	—
Bachelor's or higher	10.07314256
High school enrollment	6.916463493
Preschool enrollment	39.79212113
Transportation	—
Auto Access	4.350057744
Active commuting	81.25240601
Social	—
2-parent households	3.695624278
Voting	3.708456307
Neighborhood	—
Alcohol availability	23.94456564
Park access	9.072244322
Retail density	32.25972026
Supermarket access	80.6236366
Tree canopy	36.73809829
Housing	—
Homeownership	14.6413448
Housing habitability	17.27191069
Low-inc homeowner severe housing cost burden	85.70511998
Low-inc renter severe housing cost burden	5.812909021

Uncrowded housing	9.816501989
Health Outcomes	—
Insured adults	53.31707943
Arthritis	32.0
Asthma ER Admissions	5.1
High Blood Pressure	12.0
Cancer (excluding skin)	74.5
Asthma	3.1
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	14.4
Diagnosed Diabetes	6.8
Life Expectancy at Birth	2.5
Cognitively Disabled	38.1
Physically Disabled	8.1
Heart Attack ER Admissions	7.7
Mental Health Not Good	8.9
Chronic Kidney Disease	10.6
Obesity	3.7
Pedestrian Injuries	55.7
Physical Health Not Good	10.9
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	81.4
Current Smoker	9.9
No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	6.0
Elderly	82.5
English Speaking	37.0
Foreign-born	51.9
Outdoor Workers	46.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	17.2
Traffic Density	43.4
Traffic Access	68.4
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	4.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	98.0
Healthy Places Index Score for Project Location (b)	4.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land use types and sizes (building SF and acreage) updated to reflect existing conditions in the City.
Operations: Vehicle Data	Updated trip rate, trip length, purpose and percentages based on existing and project traffic information provided by Iteris received 10/31/24.

Compton GPU: Existing Conditions (2045) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Compton GPU: Existing Conditions (2045)
Operational Year	2045
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	17.8
Location	Compton, CA, USA
County	Los Angeles-South Coast
City	Compton
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4266
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	22,326	Dwelling Unit	2,581	43,535,700	261,501,246	—	85,127	—

Apartments Low Rise	5,921	Dwelling Unit	285	6,276,260	0.00	—	22,563	—
Regional Shopping Center	3,526	1000sqft	348	3,525,714	0.00	—	—	—
Automobile Care Center	173	1000sqft	24.6	173,223	0.00	—	—	—
Hotel	149	Room	9.60	216,069	0.00	—	—	—
General Office Building	674	1000sqft	30.0	674,319	0.00	—	—	—
Industrial Park	16,265	1000sqft	1,142	16,264,525	0.00	—	—	—
Government Office Building	773	1000sqft	54.5	772,623	0.00	—	—	—
Place of Worship	401	1000sqft	59.4	401,347	0.00	—	—	—
Elementary School	3,277	1000sqft	479	3,276,946	0.00	0.00	—	—
City Park	102	Acre	102	0.00	0.00	0.00	—	—
Golf Course	11.9	Acre	11.9	0.00	0.00	0.00	—	—
Unenclosed Parking with Elevator	52.1	1000sqft	1.20	52,060	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	11,423	10,487	1,605	26,048	63.9	2,060	2,771	4,831	2,022	704	2,725	307,819	3,515,678	3,823,497	5,266	125	41,522	4,033,821
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11,079	10,166	1,637	22,631	62.7	2,057	2,771	4,828	2,020	704	2,723	307,819	3,402,075	3,709,894	5,269	129	40,892	3,920,902
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3,683	3,502	1,110	11,316	29.0	180	2,739	2,920	177	696	873	61,354	2,965,358	3,026,712	4,534	120	41,155	3,217,014
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	672	639	203	2,065	5.29	32.9	500	533	32.3	127	159	10,158	490,949	501,107	751	19.9	6,814	532,613

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,097	1,008	602	8,739	24.7	9.35	2,771	2,780	8.73	704	712	—	2,513,518	2,513,518	85.8	88.5	647	2,542,684
Area	10,282	9,456	610	17,079	36.8	2,019	—	2,019	1,982	—	1,982	264,587	514,370	778,958	789	9.66	—	801,567
Energy	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	487,789	487,789	43.2	0.92	—	489,142
Water	—	—	—	—	—	—	—	—	—	—	—	10,494	0.00	10,494	1,076	25.6	—	45,013
Waste	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Total	11,423	10,487	1,605	26,048	63.9	2,060	2,771	4,831	2,022	704	2,725	307,819	3,515,678	3,823,497	5,266	125	41,522	4,033,821

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,096	1,008	657	8,036	23.6	9.35	2,771	2,780	8.74	704	712	—	2,408,735	2,408,735	88.6	92.8	16.8	2,438,617
Area	9,938	9,136	586	14,365	36.6	2,017	—	2,017	1,980	—	1,980	264,587	505,551	770,138	789	9.59	—	792,716
Energy	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	487,789	487,789	43.2	0.92	—	489,142
Water	—	—	—	—	—	—	—	—	—	—	—	10,494	0.00	10,494	1,076	25.6	—	45,013
Waste	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Total	11,079	10,166	1,637	22,631	62.7	2,057	2,771	4,828	2,020	704	2,723	307,819	3,402,075	3,709,894	5,269	129	40,892	3,920,902
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,086	997	660	8,243	23.9	9.35	2,739	2,749	8.74	696	705	—	2,436,901	2,436,901	88.1	93.0	279	2,467,086
Area	2,553	2,482	56.6	2,842	2.60	140	—	140	137	—	137	18,122	40,668	58,790	54.3	0.71	—	60,358
Energy	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	487,789	487,789	43.2	0.92	—	489,142
Water	—	—	—	—	—	—	—	—	—	—	—	10,494	0.00	10,494	1,076	25.6	—	45,013
Waste	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Total	3,683	3,502	1,110	11,316	29.0	180	2,739	2,920	177	696	873	61,354	2,965,358	3,026,712	4,534	120	41,155	3,217,014
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	198	182	120	1,504	4.37	1.71	500	502	1.59	127	129	—	403,457	403,457	14.6	15.4	46.2	408,454
Area	466	453	10.3	519	0.47	25.5	—	25.5	25.0	—	25.0	3,000	6,733	9,733	8.99	0.12	—	9,993
Energy	8.21	4.10	71.8	42.1	0.45	5.67	—	5.67	5.67	—	5.67	—	80,759	80,759	7.15	0.15	—	80,983
Water	—	—	—	—	—	—	—	—	—	—	—	1,737	0.00	1,737	178	4.23	—	7,452
Waste	—	—	—	—	—	—	—	—	—	—	—	5,420	0.00	5,420	542	0.00	—	18,963
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,767	6,767
Total	672	639	203	2,065	5.29	32.9	500	533	32.3	127	159	10,158	490,949	501,107	751	19.9	6,814	532,613

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	361	332	199	2,894	8.19	3.10	919	922	2.90	233	236	—	833,745	833,745	28.4	29.3	215	843,397
Apartments Low Rise	95.9	88.1	52.8	768	2.17	0.82	244	245	0.77	61.9	62.7	—	221,115	221,115	7.52	7.77	56.9	223,674
Regional Shopping Center	89.7	82.5	49.1	712	2.01	0.76	225	226	0.71	57.3	58.0	—	204,575	204,575	7.00	7.22	52.6	206,953
Automobile Care Center	4.40	4.05	2.41	34.9	0.10	0.04	11.1	11.1	0.03	2.81	2.84	—	10,037	10,037	0.34	0.35	2.58	10,154
Hotel	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	0.00
General Office Building	17.1	15.8	9.38	136	0.38	0.15	43.1	43.2	0.14	10.9	11.1	—	39,105	39,105	1.34	1.38	10.1	39,559
Industrial Park	414	381	226	3,284	9.27	3.51	1,040	1,044	3.28	264	267	—	943,678	943,678	32.3	33.3	243	954,648

Govern ment Office Building	19.7	18.1	10.8	156	0.44	0.17	49.4	49.6	0.16	12.6	12.7	—	44,849	44,849	1.53	1.58	11.5	45,370
Place of Worship	10.2	9.38	5.58	81.0	0.23	0.09	25.6	25.7	0.08	6.51	6.59	—	23,266	23,266	0.80	0.82	5.99	23,536
Element ary School	83.4	76.7	45.6	662	1.87	0.71	210	210	0.66	53.2	53.9	—	190,128	190,128	6.51	6.71	48.9	192,338
City Park	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	0.00
Golf Course	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	0.00
Unenclo sed Parking with Elevator	1.32	1.22	0.72	10.5	0.03	0.01	3.33	3.34	0.01	0.85	0.86	—	3,020	3,020	0.10	0.11	0.78	3,056
Total	1,097	1,008	602	8,739	24.7	9.35	2,771	2,780	8.73	704	712	—	2,513,518	2,513,518	85.8	88.5	647	2,542,684
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	361	332	217	2,660	7.84	3.10	919	922	2.90	233	236	—	798,977	798,977	29.3	30.7	5.57	808,864
Apartme nts Low Rise	95.8	88.0	57.6	706	2.08	0.82	244	245	0.77	61.9	62.7	—	211,894	211,894	7.76	8.14	1.48	214,516
Regiona l Shoppin g Center	89.6	82.4	53.6	655	1.92	0.76	225	226	0.71	57.3	58.0	—	196,049	196,049	7.23	7.57	1.36	198,485
Automo bile Care Center	4.40	4.04	2.63	32.1	0.09	0.04	11.1	11.1	0.03	2.81	2.84	—	9,619	9,619	0.35	0.37	0.07	9,738

Hotel	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	0.00
General Office Building	17.1	15.8	10.3	125	0.37	0.15	43.1	43.2	0.14	10.9	11.1	—	37,475	37,475	1.38	1.45	0.26	37,941
Industrial Park	413	380	247	3,021	8.88	3.51	1,040	1,044	3.28	264	267	—	904,348	904,348	33.3	34.9	6.30	915,587
Government Office Building	19.6	18.1	11.8	144	0.42	0.17	49.4	49.6	0.16	12.6	12.7	—	42,979	42,979	1.58	1.66	0.30	43,514
Place of Worship	10.2	9.37	6.10	74.5	0.22	0.09	25.6	25.7	0.08	6.51	6.59	—	22,296	22,296	0.82	0.86	0.16	22,573
Elementary School	83.3	76.6	49.9	609	1.79	0.71	210	210	0.66	53.2	53.9	—	182,204	182,204	6.72	7.03	1.27	184,468
City Park	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	0.00
Golf Course	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	0.00
Unenclosed Parking with Elevator	1.32	1.22	0.79	9.67	0.03	0.01	3.33	3.34	0.01	0.85	0.86	—	2,895	2,895	0.11	0.11	0.02	2,931
Total	1,096	1,008	657	8,036	23.6	9.35	2,771	2,780	8.74	704	712	—	2,408,735	2,408,735	88.6	92.8	16.8	2,438,617
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	65.3	59.9	39.8	498	1.45	0.57	166	166	0.53	42.1	42.7	—	133,827	133,827	4.82	5.09	15.3	135,481
Apartments Low Rise	17.3	15.9	10.6	132	0.38	0.15	44.0	44.1	0.14	11.2	11.3	—	35,492	35,492	1.28	1.35	4.07	35,930

Regional Shopping	16.2	14.9	9.82	123	0.36	0.14	40.7	40.8	0.13	10.3	10.5	—	32,838	32,838	1.19	1.25	3.76	33,245
Automobile Care Center	0.79	0.73	0.48	6.02	0.02	0.01	2.00	2.00	0.01	0.51	0.51	—	1,611	1,611	0.06	0.06	0.18	1,631
Hotel	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	0.00
General Office Building	3.10	2.84	1.88	23.4	0.07	0.03	7.78	7.80	0.02	1.98	2.00	—	6,277	6,277	0.23	0.24	0.72	6,355
Industrial Park	74.7	68.7	45.3	566	1.64	0.64	188	188	0.60	47.7	48.3	—	151,475	151,475	5.49	5.79	17.4	153,355
Government Office Building	3.55	3.26	2.15	26.9	0.08	0.03	8.92	8.95	0.03	2.27	2.29	—	7,199	7,199	0.26	0.28	0.82	7,288
Place of Worship	1.84	1.69	1.12	13.9	0.04	0.02	4.63	4.64	0.01	1.18	1.19	—	3,735	3,735	0.14	0.14	0.43	3,781
Elementary School	15.1	13.8	9.13	114	0.33	0.13	37.8	37.9	0.12	9.60	9.72	—	30,519	30,519	1.11	1.17	3.50	30,897
City Park	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	0.00
Golf Course	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	0.00
Unenclosed Parking with Elevator	0.24	0.22	0.15	1.81	0.01	< 0.005	0.60	0.60	< 0.005	0.15	0.15	—	485	485	0.02	0.02	0.06	491
Total	198	182	120	1,504	4.37	1.71	500	502	1.59	127	129	—	403,457	403,457	14.6	15.4	46.2	408,454

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Elementary	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Govern Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Automo bile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	25.3	12.6	216	92.0	1.38	17.5	—	17.5	17.5	—	17.5	—	274,295	274,295	24.3	0.52	—	275,056

Apartme Low Rise	2.85	1.43	24.4	10.4	0.16	1.97	—	1.97	1.97	—	1.97	—	30,942	30,942	2.74	0.06	—	31,027
Regiona l Shoppin g Center	0.62	0.31	5.67	4.76	0.03	0.43	—	0.43	0.43	—	0.43	—	6,765	6,765	0.60	0.01	—	6,784
Automo bile Care Center	0.22	0.11	1.99	1.67	0.01	0.15	—	0.15	0.15	—	0.15	—	2,376	2,376	0.21	< 0.005	—	2,383
Hotel	0.18	0.09	1.68	1.41	0.01	0.13	—	0.13	0.13	—	0.13	—	1,999	1,999	0.18	< 0.005	—	2,005
General Office Building	0.50	0.25	4.59	3.86	0.03	0.35	—	0.35	0.35	—	0.35	—	5,478	5,478	0.48	0.01	—	5,493
Industria l Park	12.2	6.09	111	93.0	0.66	8.42	—	8.42	8.42	—	8.42	—	132,120	132,120	11.7	0.25	—	132,486
Govern ment Office Building	0.58	0.29	5.26	4.42	0.03	0.40	—	0.40	0.40	—	0.40	—	6,276	6,276	0.56	0.01	—	6,294
Place of Worship	0.51	0.25	4.61	3.88	0.03	0.35	—	0.35	0.35	—	0.35	—	5,505	5,505	0.49	0.01	—	5,521
Element ary School	2.03	1.02	18.5	15.5	0.11	1.40	—	1.40	1.40	—	1.40	—	22,033	22,033	1.95	0.04	—	22,094
City Park	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
Golf Course	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
Unenclo sed Parking with Elevator	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
Total	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	487,789	487,789	43.2	0.92	—	489,142

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	25.3	12.6	216	92.0	1.38	17.5	—	17.5	17.5	—	17.5	—	274,295	274,295	24.3	0.52	—	275,056
Apartments Low Rise	2.85	1.43	24.4	10.4	0.16	1.97	—	1.97	1.97	—	1.97	—	30,942	30,942	2.74	0.06	—	31,027
Regional Shopping Center	0.62	0.31	5.67	4.76	0.03	0.43	—	0.43	0.43	—	0.43	—	6,765	6,765	0.60	0.01	—	6,784
Automobile Care Center	0.22	0.11	1.99	1.67	0.01	0.15	—	0.15	0.15	—	0.15	—	2,376	2,376	0.21	< 0.005	—	2,383
Hotel	0.18	0.09	1.68	1.41	0.01	0.13	—	0.13	0.13	—	0.13	—	1,999	1,999	0.18	< 0.005	—	2,005
General Office Building	0.50	0.25	4.59	3.86	0.03	0.35	—	0.35	0.35	—	0.35	—	5,478	5,478	0.48	0.01	—	5,493
Industrial Park	12.2	6.09	111	93.0	0.66	8.42	—	8.42	8.42	—	8.42	—	132,120	132,120	11.7	0.25	—	132,486
Government Office Building	0.58	0.29	5.26	4.42	0.03	0.40	—	0.40	0.40	—	0.40	—	6,276	6,276	0.56	0.01	—	6,294
Place of Worship	0.51	0.25	4.61	3.88	0.03	0.35	—	0.35	0.35	—	0.35	—	5,505	5,505	0.49	0.01	—	5,521
Elementary School	2.03	1.02	18.5	15.5	0.11	1.40	—	1.40	1.40	—	1.40	—	22,033	22,033	1.95	0.04	—	22,094
City Park	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
Golf Course	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

Unenclo Parking with Elevator	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
Total	45.0	22.5	393	231	2.45	31.1	—	31.1	31.1	—	31.1	—	487,789	487,789	43.2	0.92	—	489,142
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.62	2.31	39.4	16.8	0.25	3.19	—	3.19	3.19	—	3.19	—	45,413	45,413	4.02	0.09	—	45,539
Apartme nts Low Rise	0.52	0.26	4.45	1.89	0.03	0.36	—	0.36	0.36	—	0.36	—	5,123	5,123	0.45	0.01	—	5,137
Regiona l Shoppin g Center	0.11	0.06	1.03	0.87	0.01	0.08	—	0.08	0.08	—	0.08	—	1,120	1,120	0.10	< 0.005	—	1,123
Automob ile Care Center	0.04	0.02	0.36	0.31	< 0.005	0.03	—	0.03	0.03	—	0.03	—	393	393	0.03	< 0.005	—	394
Hotel	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	331	331	0.03	< 0.005	—	332
General Office Building	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	907	907	0.08	< 0.005	—	909
Industria l Park	2.22	1.11	20.2	17.0	0.12	1.54	—	1.54	1.54	—	1.54	—	21,874	21,874	1.94	0.04	—	21,935
Govern ment Office Building	0.11	0.05	0.96	0.81	0.01	0.07	—	0.07	0.07	—	0.07	—	1,039	1,039	0.09	< 0.005	—	1,042
Place of Worship	0.09	0.05	0.84	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	911	911	0.08	< 0.005	—	914
Element ary School	0.37	0.19	3.37	2.83	0.02	0.26	—	0.26	0.26	—	0.26	—	3,648	3,648	0.32	0.01	—	3,658

City Park	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
Golf Course	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
Unenclosed Parking with Elevator	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
Total	8.21	4.10	71.8	42.1	0.45	5.67	—	5.67	5.67	—	5.67	—	80,759	80,759	7.15	0.15	—	80,983

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	8,181	7,378	586	14,365	36.6	2,017	—	2,017	1,980	—	1,980	264,587	505,551	770,138	789	9.59	—	792,716
Consumer Products	1,608	1,608	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	150	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	343	320	24.1	2,713	0.14	2.68	—	2.68	2.02	—	2.02	—	8,820	8,820	0.37	0.07	—	8,851
Total	10,282	9,456	610	17,079	36.8	2,019	—	2,019	1,982	—	1,982	264,587	514,370	778,958	789	9.66	—	801,567

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	8,181	7,378	586	14,365	36.6	2,017	—	2,017	1,980	—	1,980	264,587	505,551	770,138	789	9.59	—	792,716
Consumer Products	1,608	1,608	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	150	150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9,938	9,136	586	14,365	36.6	2,017	—	2,017	1,980	—	1,980	264,587	505,551	770,138	789	9.59	—	792,716
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	102	92.2	7.33	180	0.46	25.2	—	25.2	24.7	—	24.7	3,000	5,733	8,733	8.95	0.11	—	8,989
Consumer Products	293	293	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	27.3	27.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	42.9	40.1	3.01	339	0.02	0.33	—	0.33	0.25	—	0.25	—	1,000	1,000	0.04	0.01	—	1,004
Total	466	453	10.3	519	0.47	25.5	—	25.5	25.0	—	25.0	3,000	6,733	9,733	8.99	0.12	—	9,993

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,595	0.00	1,595	164	3.89	—	6,840
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	423	0.00	423	43.4	1.03	—	1,814
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	500	0.00	500	51.3	1.22	—	2,147
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.2	0.00	31.2	3.20	0.08	—	134
Hotel	—	—	—	—	—	—	—	—	—	—	—	7.24	0.00	7.24	0.74	0.02	—	31.1
General Office Building	—	—	—	—	—	—	—	—	—	—	—	230	0.00	230	23.5	0.56	—	985
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,208	0.00	7,208	739	17.6	—	30,916
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	294	0.00	294	30.2	0.72	—	1,262
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	24.0	0.00	24.0	2.47	0.06	—	103
Elementary School	—	—	—	—	—	—	—	—	—	—	—	182	0.00	182	18.7	0.44	—	781
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unenclo Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10,494	0.00	10,494	1,076	25.6	—	45,013
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,595	0.00	1,595	164	3.89	—	6,840
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	423	0.00	423	43.4	1.03	—	1,814
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	500	0.00	500	51.3	1.22	—	2,147
Automob ile Care Center	—	—	—	—	—	—	—	—	—	—	—	31.2	0.00	31.2	3.20	0.08	—	134
Hotel	—	—	—	—	—	—	—	—	—	—	—	7.24	0.00	7.24	0.74	0.02	—	31.1
General Office Building	—	—	—	—	—	—	—	—	—	—	—	230	0.00	230	23.5	0.56	—	985
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	7,208	0.00	7,208	739	17.6	—	30,916
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	294	0.00	294	30.2	0.72	—	1,262
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	24.0	0.00	24.0	2.47	0.06	—	103

Element ary School	—	—	—	—	—	—	—	—	—	—	—	182	0.00	182	18.7	0.44	—	781
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10,494	0.00	10,494	1,076	25.6	—	45,013
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	264	0.00	264	27.1	0.64	—	1,132
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	70.0	0.00	70.0	7.18	0.17	—	300
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	82.9	0.00	82.9	8.50	0.20	—	355
Automo bile Care Center	—	—	—	—	—	—	—	—	—	—	—	5.16	0.00	5.16	0.53	0.01	—	22.1
Hotel	—	—	—	—	—	—	—	—	—	—	—	1.20	0.00	1.20	0.12	< 0.005	—	5.14
General Office Building	—	—	—	—	—	—	—	—	—	—	—	38.0	0.00	38.0	3.90	0.09	—	163
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	1,193	0.00	1,193	122	2.91	—	5,119

Govern ment	—	—	—	—	—	—	—	—	—	—	—	48.7	0.00	48.7	5.00	0.12	—	209
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.98	0.00	3.98	0.41	0.01	—	17.1
Element ary School	—	—	—	—	—	—	—	—	—	—	—	30.1	0.00	30.1	3.09	0.07	—	129
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unenclo sed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,737	0.00	1,737	178	4.23	—	7,452

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12,171	0.00	12,171	1,216	0.00	—	42,583
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,038	0.00	3,038	304	0.00	—	10,628

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,995	0.00	1,995	199	0.00	—	6,981
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	356	0.00	356	35.6	0.00	—	1,246
Hotel	—	—	—	—	—	—	—	—	—	—	—	44.0	0.00	44.0	4.39	0.00	—	154
General Office Building	—	—	—	—	—	—	—	—	—	—	—	338	0.00	338	33.8	0.00	—	1,182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10,870	0.00	10,870	1,086	0.00	—	38,029
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,356
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1,232	0.00	1,232	123	0.00	—	4,310
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2,296	0.00	2,296	229	0.00	—	8,033
City Park	—	—	—	—	—	—	—	—	—	—	—	4.71	0.00	4.71	0.47	0.00	—	16.5
Golf Course	—	—	—	—	—	—	—	—	—	—	—	5.96	0.00	5.96	0.60	0.00	—	20.9
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12,171	0.00	12,171	1,216	0.00	—	42,583
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3,038	0.00	3,038	304	0.00	—	10,628
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,995	0.00	1,995	199	0.00	—	6,981
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	356	0.00	356	35.6	0.00	—	1,246
Hotel	—	—	—	—	—	—	—	—	—	—	—	44.0	0.00	44.0	4.39	0.00	—	154
General Office Building	—	—	—	—	—	—	—	—	—	—	—	338	0.00	338	33.8	0.00	—	1,182
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	10,870	0.00	10,870	1,086	0.00	—	38,029
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	387	0.00	387	38.7	0.00	—	1,356
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1,232	0.00	1,232	123	0.00	—	4,310
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2,296	0.00	2,296	229	0.00	—	8,033
City Park	—	—	—	—	—	—	—	—	—	—	—	4.71	0.00	4.71	0.47	0.00	—	16.5
Golf Course	—	—	—	—	—	—	—	—	—	—	—	5.96	0.00	5.96	0.60	0.00	—	20.9

Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	32,738	0.00	32,738	3,272	0.00	—	114,538
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2,015	0.00	2,015	201	0.00	—	7,050
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	503	0.00	503	50.3	0.00	—	1,760
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	330	0.00	330	33.0	0.00	—	1,156
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	59.0	0.00	59.0	5.89	0.00	—	206
Hotel	—	—	—	—	—	—	—	—	—	—	—	7.28	0.00	7.28	0.73	0.00	—	25.5
General Office Building	—	—	—	—	—	—	—	—	—	—	—	55.9	0.00	55.9	5.59	0.00	—	196
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,800	0.00	1,800	180	0.00	—	6,296
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	64.1	0.00	64.1	6.41	0.00	—	224
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20.4	0.00	—	714
Elementary School	—	—	—	—	—	—	—	—	—	—	—	380	0.00	380	38.0	0.00	—	1,330

City Park	—	—	—	—	—	—	—	—	—	—	—	0.78	0.00	0.78	0.08	0.00	—	2.73
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.99	0.00	0.99	0.10	0.00	—	3.45
Unenclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5,420	0.00	5,420	542	0.00	—	18,963

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	312	312
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.0	45.0
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35,912	35,912
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	338	338

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	1.64
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,234	4,234
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88	1.88
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.55	1.55
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.7	12.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	312	312
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	45.0	45.0
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.9	16.9
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35,912	35,912

Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	338	338
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.64	1.64
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,234	4,234
Govern ment Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.88	1.88
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.55	1.55
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.7	12.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40,875	40,875
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.6	51.6
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.44	7.44
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.80	2.80
Automo bile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,946	5,946

Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55.9	55.9
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	701	701
Government Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.10	2.10
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6,767	6,767

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
-----------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	156,856	156,856	156,856	57,252,374	1,296,952	1,296,952	1,296,952	473,387,301
Apartments Low Rise	41,599	41,599	41,599	15,183,701	343,960	343,960	343,960	125,545,383
Regional Shopping Center	39,095	39,095	39,095	14,269,802	318,090	318,090	318,090	116,102,753

Automobile Care Center	1,918	1,918	1,918	700,135	15,607	15,607	15,607	5,696,477
Hotel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	7,473	7,473	7,473	2,727,693	60,803	60,803	60,803	22,193,209
Industrial Park	180,342	180,342	180,342	65,824,822	1,467,308	1,467,308	1,467,308	535,567,576
Government Office Building	8,571	8,571	8,571	3,128,348	69,734	69,734	69,734	25,453,043
Place of Worship	4,446	4,446	4,446	1,622,856	36,175	36,175	36,175	13,203,972
Elementary School	36,335	36,335	36,335	13,262,093	295,627	295,627	295,627	107,903,778
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unenclosed Parking with Elevator	577	577	577	210,688	4,696	4,696	4,696	1,714,211

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	1116
Gas Fireplaces	18977
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2233
Conventional Wood Stoves	0
Catalytic Wood Stoves	1116

Non-Catalytic Wood Stoves	1116
Pellet Wood Stoves	0
Apartments Low Rise	—
Wood Fireplaces	296
Gas Fireplaces	5033
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	592
Conventional Wood Stoves	0
Catalytic Wood Stoves	296
Non-Catalytic Wood Stoves	296
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
100869219	33,623,073	37,959,501	12,652,644	3,136

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
----------	----------------------	-----	-----	-----	-----------------------

Single Family Housing	153,941,009	0.00	0.0000	0.0000	855,874,939
Apartments Low Rise	22,707,304	0.00	0.0000	0.0000	96,545,905
Regional Shopping Center	34,627,329	0.00	0.0000	0.0000	21,108,253
Automobile Care Center	1,661,683	0.00	0.0000	0.0000	7,414,281
Hotel	3,023,605	0.00	0.0000	0.0000	6,238,280
General Office Building	12,016,558	0.00	0.0000	0.0000	17,091,605
Industrial Park	289,838,492	0.00	0.0000	0.0000	412,248,253
Government Office Building	13,768,363	0.00	0.0000	0.0000	19,583,264
Place of Worship	3,850,016	0.00	0.0000	0.0000	17,178,431
Elementary School	20,495,153	0.00	0.0000	0.0000	68,749,970
City Park	0.00	0.00	0.0000	0.0000	0.00
Golf Course	0.00	0.00	0.0000	0.0000	0.00
Unenclosed Parking with Elevator	146,705	0.00	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	832,174,859	4,482,434,059
Apartments Low Rise	220,698,170	0.00
Regional Shopping Center	261,179,711	0.00
Automobile Care Center	16,276,032	0.00
Hotel	3,779,649	0.00
General Office Building	119,792,546	0.00
Industrial Park	3,761,281,250	0.00
Government Office Building	153,563,937	0.00
Place of Worship	12,546,852	0.00
Elementary School	95,022,898	0.00

City Park	0.00	0.00
Golf Course	0.00	0.00
Unenclosed Parking with Elevator	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	22,584	—
Apartments Low Rise	5,637	—
Regional Shopping Center	3,702	—
Automobile Care Center	661	—
Hotel	81.6	—
General Office Building	627	—
Industrial Park	20,169	—
Government Office Building	719	—
Place of Worship	2,286	—
Elementary School	4,260	—
City Park	8.74	—
Golf Course	11.1	—
Unenclosed Parking with Elevator	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Automobile Care Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Automobile Care Center	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0
Government Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

Government Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Golf Course	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	6.58	annual days of extreme heat
Extreme Precipitation	4.40	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A

Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	29.9
AQ-PM	86.0
AQ-DPM	54.0
Drinking Water	55.3
Lead Risk Housing	88.5
Pesticides	0.00
Toxic Releases	99.3
Traffic	31.4
Effect Indicators	—
CleanUp Sites	65.0
Groundwater	66.1
Haz Waste Facilities/Generators	85.5
Impaired Water Bodies	66.7
Solid Waste	60.5
Sensitive Population	—
Asthma	95.0
Cardio-vascular	79.7
Low Birth Weights	96.4
Socioeconomic Factor Indicators	—
Education	93.8
Housing	99.0
Linguistic	50.5
Poverty	92.6
Unemployment	84.0

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	14.88515334
Employed	9.919158219
Median HI	6.916463493
Education	—
Bachelor's or higher	10.07314256
High school enrollment	6.916463493
Preschool enrollment	39.79212113
Transportation	—
Auto Access	4.350057744
Active commuting	81.25240601
Social	—
2-parent households	3.695624278
Voting	3.708456307
Neighborhood	—
Alcohol availability	23.94456564
Park access	9.072244322
Retail density	32.25972026
Supermarket access	80.6236366
Tree canopy	36.73809829
Housing	—
Homeownership	14.6413448
Housing habitability	17.27191069
Low-inc homeowner severe housing cost burden	85.70511998
Low-inc renter severe housing cost burden	5.812909021

Uncrowded housing	9.816501989
Health Outcomes	—
Insured adults	53.31707943
Arthritis	32.0
Asthma ER Admissions	5.1
High Blood Pressure	12.0
Cancer (excluding skin)	74.5
Asthma	3.1
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	14.4
Diagnosed Diabetes	6.8
Life Expectancy at Birth	2.5
Cognitively Disabled	38.1
Physically Disabled	8.1
Heart Attack ER Admissions	7.7
Mental Health Not Good	8.9
Chronic Kidney Disease	10.6
Obesity	3.7
Pedestrian Injuries	55.7
Physical Health Not Good	10.9
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	81.4
Current Smoker	9.9
No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	6.0
Elderly	82.5
English Speaking	37.0
Foreign-born	51.9
Outdoor Workers	46.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	17.2
Traffic Density	43.4
Traffic Access	68.4
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	4.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	98.0
Healthy Places Index Score for Project Location (b)	4.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
 b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land use types and sizes (building SF and acreage) updated to reflect existing conditions in the City.
Operations: Vehicle Data	Updated trip rate, trip length, purpose and percentages based on existing and proposed traffic information provided by Iteris received 10/31/24.
Characteristics: Utility Information	Updated GHG pollutant intensity factors consistent with the 2024 RTP/SCS plan.

Compton GPU: Proposed Conditions (2045) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Compton GPU: Proposed Conditions (2045)
Operational Year	2045
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	17.8
Location	33.89588006745666, -118.22018515974344
County	Los Angeles-South Coast
City	Compton
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4266
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	22,326	Dwelling Unit	2,345	43,535,700	261,501,246	—	86,398	—

Apartments Low Rise	11,697	Dwelling Unit	797	12,398,820	0.00	—	43,840	—
Regional Shopping Center	3,166	1000sqft	412	3,992,910	0.00	—	—	—
Industrial Park	18,059	1000sqft	1,158	18,059,058	0.00	—	—	—
General Office Building	96.4	1000sqft	164	830,684	0.00	—	—	—
Place of Worship	401	1000sqft	59.4	401,347	0.00	—	—	—
Elementary School	3,277	1000sqft	479	3,276,946	0.00	0.00	—	—
City Park	90.0	Acre	90.0	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13,464	12,347	1,856	30,480	74.6	2,476	3,091	5,567	2,430	785	3,215	365,507	3,962,983	4,328,490	5,803	142	5,872	4,521,795
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13,081	11,989	1,892	26,608	73.3	2,473	3,091	5,564	2,428	785	3,213	365,507	3,836,934	4,202,441	5,805	147	5,156	4,396,503
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	4,152	3,943	1,256	12,840	32.6	212	3,056	3,268	208	776	985	68,645	3,307,710	3,376,355	4,920	136	5,454	3,545,451
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	758	720	229	2,343	5.95	38.8	558	596	38.0	142	180	11,365	547,629	558,994	815	22.6	903	586,990

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,251	1,150	700	9,837	27.7	10.7	3,091	3,102	10.0	785	795	—	2,820,080	2,820,080	97.8	102	735	2,853,790
Area	12,165	11,174	733	20,398	44.3	2,432	—	2,432	2,387	—	2,387	318,691	618,838	937,529	951	11.6	—	964,759
Energy	48.3	24.2	422	245	2.64	33.4	—	33.4	33.4	—	33.4	—	524,065	524,065	46.4	0.99	—	525,519
Water	—	—	—	—	—	—	—	—	—	—	—	11,121	0.00	11,121	1,140	27.1	—	47,703
Waste	—	—	—	—	—	—	—	—	—	—	—	35,696	0.00	35,696	3,568	0.00	—	124,888
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,137	5,137
Total	13,464	12,347	1,856	30,480	74.6	2,476	3,091	5,567	2,430	785	3,215	365,507	3,962,983	4,328,490	5,803	142	5,872	4,521,795
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,250	1,148	764	9,060	26.5	10.7	3,091	3,102	10.1	785	795	—	2,703,942	2,703,942	101	107	19.1	2,738,444
Area	11,783	10,816	706	17,302	44.1	2,429	—	2,429	2,385	—	2,385	318,691	608,927	927,617	950	11.5	—	954,812
Energy	48.3	24.2	422	245	2.64	33.4	—	33.4	33.4	—	33.4	—	524,065	524,065	46.4	0.99	—	525,519
Water	—	—	—	—	—	—	—	—	—	—	—	11,121	0.00	11,121	1,140	27.1	—	47,703
Waste	—	—	—	—	—	—	—	—	—	—	—	35,696	0.00	35,696	3,568	0.00	—	124,888
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,137	5,137

Total	13,081	11,989	1,892	26,608	73.3	2,473	3,091	5,564	2,428	785	3,213	365,507	3,836,93	4,202,44	5,805	147	5,156	4,396,50
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,238	1,136	766	9,289	26.8	10.7	3,056	3,066	10.0	776	786	—	2,735,149	2,735,149	100	107	317	2,769,994
Area	2,866	2,782	67.2	3,305	3.13	168	—	168	165	—	165	21,828	48,496	70,324	65.4	0.85	—	72,211
Energy	48.3	24.2	422	245	2.64	33.4	—	33.4	33.4	—	33.4	—	524,065	524,065	46.4	0.99	—	525,519
Water	—	—	—	—	—	—	—	—	—	—	—	11,121	0.00	11,121	1,140	27.1	—	47,703
Waste	—	—	—	—	—	—	—	—	—	—	—	35,696	0.00	35,696	3,568	0.00	—	124,888
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,137	5,137
Total	4,152	3,943	1,256	12,840	32.6	212	3,056	3,268	208	776	985	68,645	3,307,710	3,376,355	4,920	136	5,454	3,545,451
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	226	207	140	1,695	4.90	1.96	558	560	1.83	142	144	—	452,835	452,835	16.6	17.8	52.6	458,604
Area	523	508	12.3	603	0.57	30.7	—	30.7	30.1	—	30.1	3,614	8,029	11,643	10.8	0.14	—	11,955
Energy	8.82	4.41	77.1	44.8	0.48	6.09	—	6.09	6.09	—	6.09	—	86,765	86,765	7.68	0.16	—	87,006
Water	—	—	—	—	—	—	—	—	—	—	—	1,841	0.00	1,841	189	4.49	—	7,898
Waste	—	—	—	—	—	—	—	—	—	—	—	5,910	0.00	5,910	591	0.00	—	20,677
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	850	850
Total	758	720	229	2,343	5.95	38.8	558	596	38.0	142	180	11,365	547,629	558,994	815	22.6	903	586,990

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	361	332	203	2,857	8.05	3.12	899	903	2.92	228	231	—	820,455	820,455	28.3	29.7	214	830,237
Apartments Low Rise	189	174	106	1,497	4.22	1.64	471	473	1.53	120	121	—	429,851	429,851	14.8	15.6	112	434,976
Regional Shopping Center	88.3	81.2	49.3	692	1.94	0.75	217	218	0.71	55.1	55.8	—	198,088	198,088	6.89	7.21	51.6	200,461
Industrial Park	504	463	281	3,947	11.1	4.31	1,238	1,242	4.03	315	319	—	1,129,903	1,129,903	39.3	41.1	295	1,143,437
General Office Building	2.69	2.47	1.50	21.1	0.06	0.02	6.61	6.63	0.02	1.68	1.70	—	6,031	6,031	0.21	0.22	1.57	6,104
Place of Worship	11.2	10.3	6.25	87.6	0.25	0.10	27.5	27.6	0.09	6.98	7.07	—	25,089	25,089	0.87	0.91	6.54	25,390
Elementary School	91.4	84.1	51.1	716	2.01	0.78	225	225	0.73	57.1	57.8	—	205,033	205,033	7.13	7.46	53.4	207,489
City Park	2.51	2.31	1.40	19.7	0.06	0.02	6.17	6.19	0.02	1.57	1.59	—	5,628	5,628	0.20	0.20	1.47	5,696
Total	1,251	1,150	700	9,837	27.7	10.7	3,091	3,102	10.0	785	795	—	2,820,080	2,820,080	97.8	102	735	2,853,790
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	361	332	222	2,630	7.72	3.12	899	903	2.92	228	231	—	786,654	786,654	29.2	31.1	5.55	796,665
Apartments Low Rise	189	174	116	1,378	4.04	1.64	471	473	1.53	120	121	—	412,142	412,142	15.3	16.3	2.91	417,387

Regional Shopping Center	88.3	81.2	53.8	638	1.86	0.76	217	218	0.71	55.1	55.8	—	189,933	189,933	7.11	7.55	1.34	192,361
Industrial Park	504	463	307	3,636	10.6	4.31	1,238	1,242	4.03	315	319	—	1,083,384	1,083,384	40.6	43.1	7.64	1,097,238
General Office Building	2.69	2.47	1.64	19.4	0.06	0.02	6.61	6.63	0.02	1.68	1.70	—	5,783	5,783	0.22	0.23	0.04	5,857
Place of Worship	11.2	10.3	6.82	80.7	0.24	0.10	27.5	27.6	0.09	6.98	7.07	—	24,057	24,057	0.90	0.96	0.17	24,364
Elementary School	91.4	84.0	55.7	660	1.93	0.78	225	225	0.73	57.1	57.8	—	196,592	196,592	7.36	7.81	1.39	199,106
City Park	2.51	2.31	1.53	18.1	0.05	0.02	6.17	6.19	0.02	1.57	1.59	—	5,397	5,397	0.20	0.21	0.04	5,466
Total	1,250	1,148	764	9,060	26.5	10.7	3,091	3,102	10.1	785	795	—	2,703,942	2,703,942	101	107	19.1	2,738,444
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	65.2	59.9	40.5	492	1.42	0.57	162	163	0.53	41.2	41.8	—	131,743	131,743	4.81	5.16	15.3	133,417
Apartments Low Rise	34.2	31.4	21.2	258	0.75	0.30	85.0	85.3	0.28	21.6	21.9	—	69,023	69,023	2.52	2.70	8.01	69,900
Regional Shopping Center	16.0	14.7	9.85	119	0.34	0.14	39.2	39.3	0.13	9.95	10.1	—	31,808	31,808	1.17	1.25	3.69	32,214
Industrial Park	91.0	83.6	56.2	680	1.96	0.79	223	224	0.74	56.8	57.5	—	181,436	181,436	6.68	7.14	21.1	183,752
General Office Building	0.49	0.45	0.30	3.63	0.01	< 0.005	1.19	1.20	< 0.005	0.30	0.31	—	969	969	0.04	0.04	0.11	981

Place of Worship	2.02	1.86	1.25	15.1	0.04	0.02	4.96	4.98	0.02	1.26	1.28	—	4,029	4,029	0.15	0.16	0.47	4,080
Elementary School	16.5	15.2	10.2	123	0.36	0.14	40.5	40.7	0.13	10.3	10.4	—	32,924	32,924	1.21	1.30	3.82	33,344
City Park	0.45	0.42	0.28	3.39	0.01	< 0.005	1.11	1.12	< 0.005	0.28	0.29	—	904	904	0.03	0.04	0.10	915
Total	226	207	140	1,695	4.90	1.96	558	560	1.83	142	144	—	452,835	452,835	16.6	17.8	52.6	458,604

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	25.3	12.6	216	92.0	1.38	17.5	—	17.5	17.5	—	17.5	—	274,295	274,295	24.3	0.52	—	275,056

Apartme Low Rise	5.64	2.82	48.2	20.5	0.31	3.89	—	3.89	3.89	—	3.89	—	61,125	61,125	5.41	0.12	—	61,295
Regiona l Shoppin g Center	0.71	0.35	6.42	5.39	0.04	0.49	—	0.49	0.49	—	0.49	—	7,661	7,661	0.68	0.01	—	7,683
Industria l Park	13.5	6.76	123	103	0.74	9.34	—	9.34	9.34	—	9.34	—	146,697	146,697	13.0	0.28	—	147,104
General Office Building	0.62	0.31	5.66	4.75	0.03	0.43	—	0.43	0.43	—	0.43	—	6,748	6,748	0.60	0.01	—	6,767
Place of Worship	0.51	0.25	4.61	3.88	0.03	0.35	—	0.35	0.35	—	0.35	—	5,505	5,505	0.49	0.01	—	5,521
Element ary School	2.03	1.02	18.5	15.5	0.11	1.40	—	1.40	1.40	—	1.40	—	22,033	22,033	1.95	0.04	—	22,094
City Park	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
Total	48.3	24.2	422	245	2.64	33.4	—	33.4	33.4	—	33.4	—	524,065	524,065	46.4	0.99	—	525,519
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	25.3	12.6	216	92.0	1.38	17.5	—	17.5	17.5	—	17.5	—	274,295	274,295	24.3	0.52	—	275,056
Apartme nts Low Rise	5.64	2.82	48.2	20.5	0.31	3.89	—	3.89	3.89	—	3.89	—	61,125	61,125	5.41	0.12	—	61,295
Regiona l Shoppin g Center	0.71	0.35	6.42	5.39	0.04	0.49	—	0.49	0.49	—	0.49	—	7,661	7,661	0.68	0.01	—	7,683

Industrial Park	13.5	6.76	123	103	0.74	9.34	—	9.34	9.34	—	9.34	—	146,697	146,697	13.0	0.28	—	147,104
General Office Building	0.62	0.31	5.66	4.75	0.03	0.43	—	0.43	0.43	—	0.43	—	6,748	6,748	0.60	0.01	—	6,767
Place of Worship	0.51	0.25	4.61	3.88	0.03	0.35	—	0.35	0.35	—	0.35	—	5,505	5,505	0.49	0.01	—	5,521
Elementary School	2.03	1.02	18.5	15.5	0.11	1.40	—	1.40	1.40	—	1.40	—	22,033	22,033	1.95	0.04	—	22,094
City Park	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
Total	48.3	24.2	422	245	2.64	33.4	—	33.4	33.4	—	33.4	—	524,065	524,065	46.4	0.99	—	525,519
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.62	2.31	39.4	16.8	0.25	3.19	—	3.19	3.19	—	3.19	—	45,413	45,413	4.02	0.09	—	45,539
Apartments Low Rise	1.03	0.51	8.79	3.74	0.06	0.71	—	0.71	0.71	—	0.71	—	10,120	10,120	0.90	0.02	—	10,148
Regional Shopping Center	0.13	0.06	1.17	0.98	0.01	0.09	—	0.09	0.09	—	0.09	—	1,268	1,268	0.11	< 0.005	—	1,272
Industrial Park	2.47	1.23	22.4	18.8	0.13	1.71	—	1.71	1.71	—	1.71	—	24,287	24,287	2.15	0.05	—	24,355
General Office Building	0.11	0.06	1.03	0.87	0.01	0.08	—	0.08	0.08	—	0.08	—	1,117	1,117	0.10	< 0.005	—	1,120
Place of Worship	0.09	0.05	0.84	0.71	0.01	0.06	—	0.06	0.06	—	0.06	—	911	911	0.08	< 0.005	—	914
Elementary School	0.37	0.19	3.37	2.83	0.02	0.26	—	0.26	0.26	—	0.26	—	3,648	3,648	0.32	0.01	—	3,658

City Park	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
Total	8.82	4.41	77.1	44.8	0.48	6.09	—	6.09	6.09	—	6.09	—	86,765	86,765	7.68	0.16	—	87,006

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO ₂	PM ₁₀ E	PM ₁₀ D	PM ₁₀ T	PM _{2.5} E	PM _{2.5} D	PM _{2.5} T	BCO ₂	NBCO ₂	CO ₂ T	CH ₄	N ₂ O	R	CO ₂ e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	9,854	8,887	706	17,302	44.1	2,429	—	2,429	2,385	—	2,385	318,691	608,927	927,617	950	11.5	—	954,812
Consumer Products	1,765	1,765	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	163	163	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	383	358	27.5	3,095	0.15	2.91	—	2.91	2.20	—	2.20	—	9,911	9,911	0.41	0.08	—	9,946
Total	12,165	11,174	733	20,398	44.3	2,432	—	2,432	2,387	—	2,387	318,691	618,838	937,529	951	11.6	—	964,759
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	9,854	8,887	706	17,302	44.1	2,429	—	2,429	2,385	—	2,385	318,691	608,927	927,617	950	11.5	—	954,812
Consumer Products	1,765	1,765	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	163	163	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	11,783	10,816	706	17,302	44.1	2,429	—	2,429	2,385	—	2,385	318,691	608,927	927,617	950	11.5	—	954,812
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	123	111	8.82	216	0.55	30.4	—	30.4	29.8	—	29.8	3,614	6,905	10,519	10.8	0.13	—	10,827
Consumer Products	322	322	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	29.8	29.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	47.8	44.7	3.44	387	0.02	0.36	—	0.36	0.28	—	0.28	—	1,124	1,124	0.05	0.01	—	1,128
Total	523	508	12.3	603	0.57	30.7	—	30.7	30.1	—	30.1	3,614	8,029	11,643	10.8	0.14	—	11,955

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,595	0.00	1,595	164	3.89	—	6,840
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	835	0.00	835	85.7	2.04	—	3,584

Regional	—	—	—	—	—	—	—	—	—	—	—	449	0.00	449	46.1	1.09	—	1,928
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8,002	0.00	8,002	821	19.5	—	34,326
General Office Building	—	—	—	—	—	—	—	—	—	—	—	32.8	0.00	32.8	3.37	0.08	—	141
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	24.0	0.00	24.0	2.47	0.06	—	103
Elementary School	—	—	—	—	—	—	—	—	—	—	—	182	0.00	182	18.7	0.44	—	781
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	11,121	0.00	11,121	1,140	27.1	—	47,703
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,595	0.00	1,595	164	3.89	—	6,840
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	835	0.00	835	85.7	2.04	—	3,584
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	449	0.00	449	46.1	1.09	—	1,928
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	8,002	0.00	8,002	821	19.5	—	34,326
General Office Building	—	—	—	—	—	—	—	—	—	—	—	32.8	0.00	32.8	3.37	0.08	—	141

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	24.0	0.00	24.0	2.47	0.06	—	103
Element ary School	—	—	—	—	—	—	—	—	—	—	—	182	0.00	182	18.7	0.44	—	781
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	11,121	0.00	11,121	1,140	27.1	—	47,703
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	264	0.00	264	27.1	0.64	—	1,132
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	138	0.00	138	14.2	0.34	—	593
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	74.4	0.00	74.4	7.63	0.18	—	319
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	1,325	0.00	1,325	136	3.23	—	5,683
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.44	0.00	5.44	0.56	0.01	—	23.3
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	3.98	0.00	3.98	0.41	0.01	—	17.1
Element ary School	—	—	—	—	—	—	—	—	—	—	—	30.1	0.00	30.1	3.09	0.07	—	129
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1,841	0.00	1,841	189	4.49	—	7,898

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12,353	0.00	12,353	1,235	0.00	—	43,219
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	5,903	0.00	5,903	590	0.00	—	20,651
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	1,792	0.00	1,792	179	0.00	—	6,268
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	12,069	0.00	12,069	1,206	0.00	—	42,224
General Office Building	—	—	—	—	—	—	—	—	—	—	—	48.3	0.00	48.3	4.83	0.00	—	169
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1,232	0.00	1,232	123	0.00	—	4,310
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2,296	0.00	2,296	229	0.00	—	8,033
City Park	—	—	—	—	—	—	—	—	—	—	—	4.17	0.00	4.17	0.42	0.00	—	14.6
Total	—	—	—	—	—	—	—	—	—	—	—	35,696	0.00	35,696	3,568	0.00	—	124,888

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	12,353	0.00	12,353	1,235	0.00	—	43,219
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	5,903	0.00	5,903	590	0.00	—	20,651
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	1,792	0.00	1,792	179	0.00	—	6,268
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	12,069	0.00	12,069	1,206	0.00	—	42,224
General Office Building	—	—	—	—	—	—	—	—	—	—	—	48.3	0.00	48.3	4.83	0.00	—	169
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1,232	0.00	1,232	123	0.00	—	4,310
Element ary School	—	—	—	—	—	—	—	—	—	—	—	2,296	0.00	2,296	229	0.00	—	8,033
City Park	—	—	—	—	—	—	—	—	—	—	—	4.17	0.00	4.17	0.42	0.00	—	14.6
Total	—	—	—	—	—	—	—	—	—	—	—	35,696	0.00	35,696	3,568	0.00	—	124,888
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	2,045	0.00	2,045	204	0.00	—	7,155
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	977	0.00	977	97.7	0.00	—	3,419

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	297	0.00	297	29.6	0.00	—	1,038
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,998	0.00	1,998	200	0.00	—	6,991
General Office Building	—	—	—	—	—	—	—	—	—	—	—	8.00	0.00	8.00	0.80	0.00	—	28.0
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20.4	0.00	—	714
Elementary School	—	—	—	—	—	—	—	—	—	—	—	380	0.00	380	38.0	0.00	—	1,330
City Park	—	—	—	—	—	—	—	—	—	—	—	0.69	0.00	0.69	0.07	0.00	—	2.42
Total	—	—	—	—	—	—	—	—	—	—	—	5,910	0.00	5,910	591	0.00	—	20,677

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	312	312
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	88.8	88.8

Regional	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.2	19.2
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,701	4,701
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.02	2.02
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.55	1.55
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.7	12.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,137	5,137
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	312	312
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	88.8	88.8
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.2	19.2
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,701	4,701
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.02	2.02

Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.55	1.55
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.7	12.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5,137	5,137
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	51.6	51.6
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.7	14.7
Regiona l Shoppin g Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.17	3.17
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	778	778
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.33	0.33
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.10	2.10
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	850	850

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetati on	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	154,942	154,942	154,942	56,553,991	1,267,855	1,267,855	1,267,855	462,767,135
Apartments Low Rise	81,177	81,177	81,177	29,629,671	664,253	664,253	664,253	242,452,171
Regional Shopping Center	38,087	38,087	38,087	13,901,748	305,948	305,948	305,948	111,671,100
Industrial Park	217,250	217,250	217,250	79,296,166	1,745,142	1,745,142	1,745,142	636,976,752
General Office Building	1,160	1,160	1,160	423,288	9,316	9,316	9,316	3,400,219
Place of Worship	4,824	4,824	4,824	1,760,771	38,751	38,751	38,751	14,144,065
Elementary School	39,422	39,422	39,422	14,389,143	316,675	316,675	316,675	115,586,290
City Park	1,082	1,082	1,082	394,988	8,693	8,693	8,693	3,172,891

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	1116
Gas Fireplaces	18977
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	2233
Conventional Wood Stoves	0

Catalytic Wood Stoves	1116
Non-Catalytic Wood Stoves	1116
Pellet Wood Stoves	0
Apartments Low Rise	—
Wood Fireplaces	585
Gas Fireplaces	9942
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1170
Conventional Wood Stoves	0
Catalytic Wood Stoves	585
Non-Catalytic Wood Stoves	585
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
113267403	37,755,801	39,841,418	13,280,473	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBtu/yr)
Single Family Housing	153,941,009	0.00	0.0000	0.0000	855,874,939
Apartments Low Rise	44,858,526	0.00	0.0000	0.0000	190,727,486
Regional Shopping Center	39,215,832	0.00	0.0000	0.0000	23,905,329
Industrial Park	321,817,584	0.00	0.0000	0.0000	457,733,326
General Office Building	14,803,027	0.00	0.0000	0.0000	21,054,905
Place of Worship	3,850,016	0.00	0.0000	0.0000	17,178,431
Elementary School	20,495,153	0.00	0.0000	0.0000	68,749,970
City Park	0.00	0.00	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	832,174,859	4,482,434,059
Apartments Low Rise	435,991,639	0.00
Regional Shopping Center	234,513,603	0.00
Industrial Park	4,176,143,750	0.00
General Office Building	17,133,533	0.00
Place of Worship	12,546,852	0.00
Elementary School	95,022,898	0.00
City Park	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	22,921	—

Apartments Low Rise	10,952	—
Regional Shopping Center	3,324	—
Industrial Park	22,393	—
General Office Building	89.7	—
Place of Worship	2,286	—
Elementary School	4,260	—
City Park	7.74	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Regional Shopping Center	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	6.58	annual days of extreme heat
Extreme Precipitation	4.40	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	29.9

AQ-PM	86.0
AQ-DPM	54.0
Drinking Water	55.3
Lead Risk Housing	88.5
Pesticides	0.00
Toxic Releases	99.3
Traffic	31.4
Effect Indicators	—
CleanUp Sites	65.0
Groundwater	66.1
Haz Waste Facilities/Generators	85.5
Impaired Water Bodies	66.7
Solid Waste	60.5
Sensitive Population	—
Asthma	95.0
Cardio-vascular	79.7
Low Birth Weights	96.4
Socioeconomic Factor Indicators	—
Education	93.8
Housing	99.0
Linguistic	50.5
Poverty	92.6
Unemployment	84.0

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—

Above Poverty	14.88515334
Employed	9.919158219
Median HI	6.916463493
Education	—
Bachelor's or higher	10.07314256
High school enrollment	6.916463493
Preschool enrollment	39.79212113
Transportation	—
Auto Access	4.350057744
Active commuting	81.25240601
Social	—
2-parent households	3.695624278
Voting	3.708456307
Neighborhood	—
Alcohol availability	23.94456564
Park access	9.072244322
Retail density	32.25972026
Supermarket access	80.6236366
Tree canopy	36.73809829
Housing	—
Homeownership	14.6413448
Housing habitability	17.27191069
Low-inc homeowner severe housing cost burden	85.70511998
Low-inc renter severe housing cost burden	5.812909021
Uncrowded housing	9.816501989
Health Outcomes	—
Insured adults	53.31707943
Arthritis	32.0

Asthma ER Admissions	5.1
High Blood Pressure	12.0
Cancer (excluding skin)	74.5
Asthma	3.1
Coronary Heart Disease	28.5
Chronic Obstructive Pulmonary Disease	14.4
Diagnosed Diabetes	6.8
Life Expectancy at Birth	2.5
Cognitively Disabled	38.1
Physically Disabled	8.1
Heart Attack ER Admissions	7.7
Mental Health Not Good	8.9
Chronic Kidney Disease	10.6
Obesity	3.7
Pedestrian Injuries	55.7
Physical Health Not Good	10.9
Stroke	5.6
Health Risk Behaviors	—
Binge Drinking	81.4
Current Smoker	9.9
No Leisure Time for Physical Activity	16.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	6.0
Elderly	82.5
English Speaking	37.0
Foreign-born	51.9

Outdoor Workers	46.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	17.2
Traffic Density	43.4
Traffic Access	68.4
Other Indices	—
Hardship	94.9
Other Decision Support	—
2016 Voting	4.2

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	98.0
Healthy Places Index Score for Project Location (b)	4.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Land use types and sizes (building SF and acreage) updated to reflect existing conditions in the City.
Operations: Vehicle Data	Updated trip rate, trip length, purpose and percentages based on existing and project traffic information provided by Iteris received 10/31/24.
Characteristics: Utility Information	Updated GHG pollutant intensity factors consistent with the 2024 RTP/SCS plan.

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Appendix D: Energy Consumption Information

Prepared by: MIG, Inc.

November 2024

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Appendix D: Energy Consumption Information

Sheet 1: Energy Consumption Comparison Tables

Table 1: Estimated Operational Change in Vehicle Fuel Consumption (2023 vs. 2045)					
Metric	VMT and Vehicle Fuel Consumption				
	2023	2045 NP		2045 Project	
		Metric	Change	Metric	Change
Total VMT (miles/yr)	1,426,501,611	1,426,501,611	0	1,645,342,153	218,840,542
<i>Total Gasoline VMT</i>	<i>1,310,839,400</i>	<i>1,310,839,400</i>	<i>0</i>	<i>1,365,154,772</i>	<i>54,315,372</i>
<i>Total Diesel VMT</i>	<i>66,912,047</i>	<i>66,912,047</i>	<i>0</i>	<i>84,236,231</i>	<i>17,324,184</i>
<i>Total Electric VMT</i>	<i>54,174,936</i>	<i>54,174,936</i>	<i>0</i>	<i>195,951,149</i>	<i>141,776,214</i>
Gasoline Fuel Efficiency (miles/gal)	24.02	30.48	6.46	30.48	6.46
Diesel Fuel Efficiency (miles/gal)	8.47	9.48	1.01	9.48	1.01
Electric Fuel Efficiency (kWh/mile)	2.73	1.84	-0.89	1.84	-0.89
Total Gasoline Consumption (Gallons/yr)	54,574,334	43,010,189	-11,564,145	44,792,340	-9,781,993
Total Diesel Consumption (Gallons/yr)	7,903,782	7,059,016	-844,767	8,886,664	982,882
Total Petrol Consumption (Gallons/yr)	62,478,116	50,069,205	-12,408,911	53,679,004	-8,799,112
Total Electricity Consumption (kWh/yr)	19,852,989	29,429,865	9,576,876	106,448,042	86,595,053
Service Population (SP)	164,353	164,353	0	186,763	22,410
Consumption Efficiency					
<i>Gasoline Efficiency (gal / SP)</i>	<i>332</i>	<i>262</i>	<i>-70.36</i>	<i>240</i>	<i>-92.22</i>
<i>Diesel Efficiency (gal / SP)</i>	<i>48</i>	<i>43</i>	<i>-5.14</i>	<i>48</i>	<i>-0.51</i>
<i>Electricity Efficiency (kWh / SP)</i>	<i>121</i>	<i>179</i>	<i>58.27</i>	<i>570</i>	<i>449.17</i>

Table 2: Estimated Operational Change in Electricity Consumption (2023 vs. 2045)					
Metric	Electricity Consumed (MWh/yr)				
	2023	2045 NP		2045 Project	
		Metric	Change	Metric	Change
Building Electricity (MWh/yr)	556,076	556,076	0	577,770	21,694
Service Population (SP)	164,353	164,353	0	186,763	22,410
Electricity Consumption (MWh/yr/SP)	3.38	3.38	0	3.09	-0.29

Table 3: Estimated Operational Change in Natural Gas Consumption (2023 vs. 2045)					
Metric	Natural Gas Consumed (MMBtu/yr)				
	2023	2045 NP		2045 Project	
		Metric	Change	Metric	Change
Total Natural Gas Consumption (MMBtu/yr)	1,522,033	1,522,033	0	1,611,659	89,626
Service Population (SP)	164,353	164,353	0	186,763	22,410
Electricity Consumption (MMBTU/yr/SP)	9.26	9.26	0	8.63	-0.63

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Sheet 2: Building Energy Summation

Table 1: 2023 / 2045 No Project Energy Consumption				
Land Use	2023 Existing Conditions		2045 No Project	
	Electricity (kWh)	Natural Gas (kBtu)	Electricity (kWh)	Natural Gas (kBtu)
Single Family Housing	153,941,009	855,874,939	153,941,009	855,874,939
Apt Low Rise	22,707,304	96,545,905	22,707,304	96,545,905
Regional Shopping Ctr	34,627,329	21,108,253	34,627,329	21,108,253
Auto Care Center	1,661,683	7,414,281	1,661,683	7,414,281
Hotel	3,023,605	6,238,280	3,023,605	6,238,280
Gen Office Building	12,016,558	17,091,605	12,016,558	17,091,605
Ind Park	289,838,492	412,248,253	289,838,492	412,248,253
Govt Office Building	13,768,363	19,583,264	13,768,363	19,583,264
Place of Worship	3,850,016	17,178,431	3,850,016	17,178,431
Elementary School	20,495,153	68,749,970	20,495,153	68,749,970
City Park	0	0	0	0
Golf Course	0	0	0	0
Unenc Parking w/ Ele	146,536	0	146,536	0
TOTAL	556,076,048	1,522,033,181	556,076,048	1,522,033,181

Table 2: 2045 With Project Energy Consumption		
Land Use	Electricity (kWh)	Natural Gas (kBtu)
Single Family Housing	153,941,009.00	855,874,939.00
Apt Low Rise	44,858,526.00	190,727,486.00
Regional Shopping Ctr	31,089,820.00	18,951,845.00
Ind Park	321,817,584.00	457,733,326.00
Gen Office Building	1,717,876.00	2,443,399.00
Place of Worship	3,850,016.00	17,178,431.00
Elementary School	20,495,153.00	68,749,970.00
City Park	0.00	0.00
TOTAL	577,769,984.00	1,611,659,396.00

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Appendix D: Energy Consumption Information

Sheet 3: Average Fuel Efficiency - Los Angeles (SC) Sub-Area
EMFAC2021 Los Angeles (SC) Sub-Area Fuel Efficiency Estimates for 2023

Vehicle Class	Population	Vehicle Miles Travelled Per Year	Gallons Per Year	Miles Per Gallon
HHDT	52.44	1,056,630.11	267,383.04	3.95
LDA	3,448,181.55	46,893,592,277.49	1,652,225,043.96	28.38
LDT1	316,923.84	3,992,626,812.39	168,187,178.33	23.74
LDT2	1,545,189.36	22,024,770,389.96	953,356,223.53	23.10
LHDT1	123,582.26	1,594,338,027.92	121,393,440.82	13.13
LHDT2	18,992.21	231,327,716.36	20,118,730.17	11.50
MCY	143,314.42	327,045,240.53	7,986,957.12	40.95
MDV	936,232.52	12,295,956,884.85	652,913,515.15	18.83
MH	15,543.05	49,363,672.12	10,208,557.43	4.84
MHDT	15,094.87	267,619,756.62	52,527,816.19	5.09
OBUS	3,808.79	50,096,952.29	10,032,223.61	4.99
SBUS	1,333.83	19,295,830.28	2,166,882.56	8.90
UBUS	438.73	10,187,165.99	2,225,282.14	4.58
TOTAL	6,568,687.85	87,757,277,356.90	3,653,609,234.05	24.02

Vehicle Class	Population	Vehicle Miles Travelled Per Year	Gallons Per Year	Miles Per Gallon
HHDT	50,357.26	2,025,390,726.50	339,749,789.06	5.96
LDA	9,465.94	97,023,287.32	2,451,298.78	39.58
LDT1	130.70	919,502.21	40,059.98	22.95
LDT2	4,672.03	70,754,750.24	2,304,106.13	30.71
LHDT1	52,370.85	755,332,483.59	37,315,771.59	20.24
LHDT2	23,383.97	332,589,783.06	19,544,563.30	17.02
MCY	0.00	0.00	0.00	0.00
MDV	10,587.10	144,736,678.91	6,277,378.94	23.06
MH	5,175.53	17,697,718.59	1,777,323.15	9.96
MHDT	58,440.26	774,525,287.57	87,337,024.09	8.87
OBUS	2,064.03	48,653,689.20	7,075,622.99	6.88
SBUS	1,641.87	10,859,805.43	1,488,079.97	7.30
UBUS	9.74	414,987.44	70,892.65	5.85
TOTAL	218299.27	4278898700.06	505431910.62	8.47

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/Year)	Miles Per kWh
HHDT	39.64	798,258.89	1,417,369.10	0.56
LDA	234,642.09	3,103,403,945.47	1,140,544,269.15	2.72
LDT1	1,043.30	12,345,246.86	4,517,461.57	2.73
LDT2	18,492.59	195,733,997.30	67,046,049.55	2.92
LHDT1	0.00	0.00	0.00	0.00
LHDT2	0.00	0.00	0.00	0.00
MCY	0.00	0.00	0.00	0.00
MDV	14,103.07	151,123,961.62	54,179,335.09	2.79
MH	0.00	0.00	0.00	0.00
MHDT	27.28	182,952.95	191,209.00	0.96
OBUS	0.00	0.00	0.00	0.00
SBUS	1.64	6,244.50	7,220.52	0.86
UBUS	53.53	789,956.62	1,658,145.85	0.48
TOTAL	268,403.15	3,464,384,564.19	1,269,561,059.83	2.73

Vehicle Class	Population	Vehicle Miles Travelled Per Day	Energy Consumption (kWh/Year)	Miles Per kWh
HHDT	19,941.50	580,605,690.23	1,039,650,167.12	0.56
LDA	514,699.30	6,240,440,422.11	2,322,319,137.71	2.69
LDT1	12,979.42	143,691,610.91	51,750,407.66	2.78
LDT2	126,503.88	1,109,603,212.31	394,653,142.47	2.81
LHDT1	100,267.98	1,404,697,105.06	787,910,032.83	1.78
LHDT2	27,262.51	365,994,894.67	205,400,736.06	1.78
MCY	0.00	0.00	0.00	0.00
MDV	101,412.56	880,605,831.08	319,908,303.24	2.75
MH	0.00	0.00	0.00	0.00
MHDT	49,459.25	705,544,942.83	740,122,739.60	0.95
OBUS	934.87	16,266,111.23	17,122,232.10	0.95
SBUS	1,771.17	17,485,961.02	20,219,040.20	0.86
UBUS	6,147.78	211,202,616.58	443,862,060.50	0.48
TOTAL	961,380.22	11,676,138,398.03	6,342,917,999.49	1.84

Table 5: 2045 Los Angeles County Average Vehicle Fuel Efficiency (Gasoline)				
Vehicle Class	Population	Vehicle Miles Travelled Per Year	Gallons Per Year	Miles Per Gallon
HHDT	9.69	362,481.75	68,761.39	5.27
LDA	2,946,205.59	37,516,782,284.58	1,050,556,323.17	35.71
LDT1	265,541.10	3,251,481,476.57	105,751,502.19	30.75
LDT2	1,962,597.88	25,125,081,078.38	842,198,866.10	29.83
LHDT1	87,404.51	991,314,551.87	60,401,680.30	16.41
LHDT2	12,503.63	134,835,902.90	9,241,975.79	14.59
MCY	198,119.80	383,127,403.63	9,149,669.43	41.87
MDV	1,143,267.25	13,758,873,961.65	560,424,924.60	24.55
MH	12,978.67	44,752,627.48	9,246,213.85	4.84
MHDT	6,921.08	106,073,990.08	17,749,756.22	5.98
OBUS	1,725.05	14,899,515.10	2,596,347.73	5.74
SBUS	1,037.72	13,998,137.87	1,399,548.07	10.00
UBUS	204.08	3,874,863.41	254,989.38	15.20
TOTAL	6,638,516.05	81,345,458,275.28	2,669,040,558.21	30.48

Table 6: 2045 Los Angeles County Average Vehicle Fuel Efficiency (Diesel)				
Vehicle Class	Population	Vehicle Miles Travelled Per Year	Gallons Per Year	Miles Per Gallon
HHDT	69,267.02	2,976,344,044.06	396,411,991.66	7.51
LDA	1,795.53	21,773,519.31	412,340.35	52.80
LDT1	2.87	37,049.24	1,305.28	28.38
LDT2	7,230.62	94,624,328.89	2,469,803.37	38.31
LHDT1	65,755.33	733,255,954.50	34,093,568.69	21.51
LHDT2	31,657.66	340,125,467.52	18,476,164.19	18.41
MCY	0.00	0.00	0.00	0.00
MDV	11,954.32	146,261,228.01	4,966,909.19	29.45
MH	7,803.79	24,356,538.30	2,450,693.25	9.94
MHDT	50,020.49	628,717,521.88	63,347,631.66	9.92
OBUS	2,309.99	50,470,694.21	6,488,566.63	7.78
SBUS	501.03	3,416,792.88	410,548.37	8.32
UBUS	0.00	0.00	0.00	0.00
TOTAL	248298.64	5019383138.80	529529522.64	9.48

Compton 2045 General Plan Update
City of Compton, California
Appendix D: Energy Consumption Information

Sheet 4: Raw EMFAC Output - Los Angeles (SC) Sub-Area 2023

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/year for CVMT and EVMT, trips/year for Trips, kWh/year for Energy Consumption, tons/yr for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Cor	NOx_RUNE	NOx_IDLE	NOx_STRE	NOx_TOTE	PM2.5_RU	PM2.5_IDL	PM2.5_STF	PM2.5_TO	PM2.5_PM	
Los Angeles	2023	HHDT	Aggregate	Aggregate	Gasoline	52.44057	1056630	1056630		0	343098.5	0	8.410562	0	0.31049	8.721053	0.002076	0	0.000525	0.0026	0.005824
Los Angeles	2023	HHDT	Aggregate	Aggregate	Diesel	50357.26	2.03E+09	2.03E+09		0	2.43E+08	0	4273.664	1155.967	737.7968	6167.428	52.29411	0.640629	0	52.93474	19.76563
Los Angeles	2023	HHDT	Aggregate	Aggregate	Electricity	39.63669	798258.9	0	798258.9	197099.4	1417369	0	0	0	0	0	0	0	0	0.007768	
Los Angeles	2023	HHDT	Aggregate	Aggregate	Natural Gas	5415.87	1.09E+08	1.09E+08		0	10770296	0	112.7255	16.17756	0	128.9031	0.293449	0.028862	0	0.322312	1.085224
Los Angeles	2023	LDA	Aggregate	Aggregate	Gasoline	3363326	4.62E+10	4.62E+10		0	5.43E+09	0	2450.892	0	1535.293	3986.185	74.54655	0	12.11449	86.66104	101.8466
Los Angeles	2023	LDA	Aggregate	Aggregate	Diesel	9465.937	97023287	97023287		0	13506564	0	28.73318	0	0	28.73318	3.320422	0	0	3.320422	0.2139
Los Angeles	2023	LDA	Aggregate	Aggregate	Electricity	149786.4	2.42E+09	0	2.42E+09	2.61E+08	9.33E+08	0	0	0	0	0	0	0	0	0	5.330365
Los Angeles	2023	LDA	Aggregate	Aggregate	Plug-in Hybrid	84855.73	1.38E+09	6.97E+08	6.86E+08	1.22E+08	2.07E+08	5.343559	0	14.96265	20.30621	1.152828	0	0.280789	1.433617	3.047542	
Los Angeles	2023	LDT1	Aggregate	Aggregate	Gasoline	316618.5	3.99E+09	3.99E+09		0	4.84E+08	0	873.9502	0	233.8415	1107.792	11.39071	0	1.691919	13.08263	8.796675
Los Angeles	2023	LDT1	Aggregate	Aggregate	Diesel	130.6972	919502.2	919502.2		0	132042.8	0	1.539	0	0	1.539	0.260816	0	0	0.260816	0.002027
Los Angeles	2023	LDT1	Aggregate	Aggregate	Electricity	737.9431	9384931	0	9384931	1180647	3623358	0	0	0	0	0	0	0	0	0	0.02069
Los Angeles	2023	LDT1	Aggregate	Aggregate	Plug-in Hybrid	305.3619	5482381	2522065	2960316	438147	894103.6	0.019342	0	0.053845	0.073187	0.002762	0	0.000676	0.003437	0.012087	
Los Angeles	2023	LDT2	Aggregate	Aggregate	Gasoline	1534013	2.19E+10	2.19E+10		0	2.5E+09	0	2108.003	0	952.8482	3060.852	36.81277	0	5.568786	42.38156	48.35181
Los Angeles	2023	LDT2	Aggregate	Aggregate	Diesel	4672.025	70754750	70754750		0	7839213	0	4.374675	0	0	4.374675	0.521471	0	0	0.521471	0.155988
Los Angeles	2023	LDT2	Aggregate	Aggregate	Electricity	7316.505	94328270	0	94328270	13037531	36418497	0	0	0	0	0	0	0	0	0	0.207958
Los Angeles	2023	LDT2	Aggregate	Aggregate	Plug-in Hybrid	11176.09	1.94E+08	92760067	1.01E+08	16035954	30627552	0.711401	0	1.970685	2.682086	0.123913	0	0.030102	0.154015	0.428062	
Los Angeles	2023	LHDT1	Aggregate	Aggregate	Gasoline	123582.3	1.59E+09	1.59E+09		0	6.02E+08	0	329.2556	1.640442	419.7712	750.6673	1.977704	0	0.230478	2.208182	3.514914
Los Angeles	2023	LHDT1	Aggregate	Aggregate	Diesel	52370.85	7.55E+08	7.55E+08		0	2.15E+08	0	1106.734	35.5767	0	1142.31	18.20788	0.505953	0	18.71383	2.497835
Los Angeles	2023	LHDT2	Aggregate	Aggregate	Gasoline	18992.21	2.31E+08	2.31E+08		0	92526485	0	47.42677	0.253433	66.04109	113.7213	0.255461	0	0.028595	0.284056	0.50999
Los Angeles	2023	LHDT2	Aggregate	Aggregate	Diesel	23383.97	3.33E+08	3.33E+08		0	96184084	0	425.9542	15.71224	0	441.6665	7.894318	0.227082	0	8.121401	1.099852
Los Angeles	2023	MCY	Aggregate	Aggregate	Gasoline	143314.4	3.27E+08	3.27E+08		0	99460204	0	200.311	0	14.6246	214.9356	0.769735	0	0.384486	1.154221	0.360506
Los Angeles	2023	MDV	Aggregate	Aggregate	Gasoline	930000	1.22E+10	1.22E+10		0	1.49E+09	0	1953.313	0	777.9421	2731.255	21.63849	0	3.578937	25.21743	27.00225
Los Angeles	2023	MDV	Aggregate	Aggregate	Diesel	10587.1	1.45E+08	1.45E+08		0	17396223	0	17.67394	0	0	17.67394	1.433662	0	0	1.433662	0.31909
Los Angeles	2023	MDV	Aggregate	Aggregate	Electricity	7870.579	1.02E+08	0	1.02E+08	14028187	39205945	0	0	0	0	0	0	0	0	0	0.223875
Los Angeles	2023	MDV	Aggregate	Aggregate	Plug-in Hybrid	6232.489	97520239	47944371	49575868	8942655	14973390	0.367698	0	1.098978	1.466675	0.077887	0	0.02036	0.098247	0.214995	
Los Angeles	2023	MH	Aggregate	Aggregate	Gasoline	15543.05	49363672	49363672		0	508461.1	0	24.35364	0	0.22054	24.57418	0.07661	0	0.000245	0.076855	0.163242
Los Angeles	2023	MH	Aggregate	Aggregate	Diesel	5175.529	17697719	17697719		0	169239.8	0	70.70523	0	0	70.70523	1.767031	0	0	1.767031	0.078034
Los Angeles	2023	MHDT	Aggregate	Aggregate	Gasoline	15094.87	2.68E+08	2.68E+08		0	98759908	0	147.4097	0.485117	47.31461	195.2094	0.281434	0	0.053572	0.335006	0.885001
Los Angeles	2023	MHDT	Aggregate	Aggregate	Diesel	58440.26	7.75E+08	7.75E+08		0	2.23E+08	0	987.3569	271.6092	394.3491	1653.315	11.49326	0.616609	0	12.10987	2.561304
Los Angeles	2023	MHDT	Aggregate	Aggregate	Electricity	27.28255	182952.9	0	182952.9	110014	191209	0	0	0	0	0	0	0	0	0	0.000605
Los Angeles	2023	MHDT	Aggregate	Aggregate	Natural Gas	827.543	12565269	12565269		0	2223934	0	1.603121	1.931778	0	3.534898	0.011462	0.005038	0	0.0165	0.041553
Los Angeles	2023	OBUS	Aggregate	Aggregate	Gasoline	3808.788	50096952	50096952		0	24919437	0	27.98199	0.089074	10.99346	39.06453	0.043204	0	0.007646	0.05085	0.165667
Los Angeles	2023	OBUS	Aggregate	Aggregate	Diesel	2064.03	48653689	48653689		0	7784916	0	98.63557	10.95169	14.37688	123.9641	1.807411	0.013041	0	1.820452	0.160895
Los Angeles	2023	OBUS	Aggregate	Aggregate	Natural Gas	319.8885	5705980	5705980		0	831326.3	0	0.985191	0.161029	0	1.146219	0.004307	0.000336	0	0.004643	0.018869
Los Angeles	2023	SBUS	Aggregate	Aggregate	Gasoline	1333.83	19295830	19295830		0	1744650	0	11.12862	0.444235	1.400991	12.97385	0.022714	0	0.000916	0.02363	0.04254
Los Angeles	2023	SBUS	Aggregate	Aggregate	Diesel	1641.865	10859805	10859805		0	7774165	0	111.1948	20.35362	1.452629	133.0011	0.626144	0.026573	0	0.652717	0.035913
Los Angeles	2023	SBUS	Aggregate	Aggregate	Electricity	1.644084	6244.498	0	6244.498	7784.674	7220.522	0	0	0	0	0	0	0	0	0	2.07E-05
Los Angeles	2023	SBUS	Aggregate	Aggregate	Natural Gas	1447.068	11817518	11817518		0	6851811	0	11.56164	2.74027	0	14.30191	0.053693	0.00614	0	0.059833	0.03908
Los Angeles	2023	UBUS	Aggregate	Aggregate	Gasoline	438.7258	10187166	10187166		0	573853.3	0	2.799464	0	0.557655	3.357119	0.013038	0	0.000324	0.013362	0.030768
Los Angeles	2023	UBUS	Aggregate	Aggregate	Diesel	9.742965	414987.4	414987.4		0	12743.8	0	0.389703	0	0	0.389703	0.002769	0	0	0.002769	0.004003
Los Angeles	2023	UBUS	Aggregate	Aggregate	Electricity	53.53079	789956.6	0	789956.6	70018.27	1658146	0	0	0	0	0	0	0	0	0	0.005685
Los Angeles	2023	UBUS	Aggregate	Aggregate	Natural Gas	3880.599	1.37E+08	1.37E+08		0	5075823	0	103.2533	0	0	103.2533	0.055971	0	0	0.055971	1.262284

PM2.5_PM	PM2.5_TO	PM10_RU	PM10_IDL	PM10_STR	PM10_TOT	PM10_PM'	PM10_PM'	PM10_TOT	CO2_RUNE	CO2_IDLEX	CO2_STRE	CO2_TOTE	CH4_RUNE	CH4_IDLEX	CH4_STRE	CH4_TOTE	N2O_RUNE	N2O_IDLE	N2O_STRE	N2O_TOTE
0.040194	0.048618	0.002258	0	0.000571	0.002828	0.023295	0.114839	0.140962	2514.722	0	20.9457	2535.668	0.199983	0	3.35E-05	0.200016	0.237616	0	0.008481	0.246097
63.59023	136.2906	54.65862	0.669595	0	55.32822	79.06252	181.6864	316.0771	3580888	222440.4	0	3803328	1.46298	4.317508	0	5.780488	564.1703	35.04557	0	599.2159
0.012577	0.020345	0	0	0	0	0.031073	0.035934	0.067007	0	0	0	0	0	0	0	0	0	0	0	0
6.517981	7.925517	0.319153	0.031391	0	0.350544	4.340895	18.6228	23.31424	149312.8	15209.67	0	164522.4	180.6967	40.78528	0	221.4819	30.43839	3.100591	0	33.53898
156.7633	345.271	81.07516	0	13.17516	94.25032	407.3864	447.8952	949.5319	15001881	0	424936.4	15426818	162.5867	0	431.5524	594.1391	259.4181	0	197.0684	456.4865
0.334652	3.868974	3.470557	0	0	3.470557	0.855599	0.956148	5.282304	27441.06	0	0	27441.06	0.248076	0	0	0.248076	4.32335	0	0	4.32335
4.073289	9.403655	0	0	0	0	21.32146	11.63797	32.95943	0	0	0	0	0	0	0	0	0	0	0	0
2.204256	6.685416	1.253806	0	0.305384	1.55919	12.19017	6.297875	20.04723	232905.6	0	8788.787	241694.4	0.840332	0	5.428394	6.268726	0.982509	0	2.74891	3.731418
16.76057	38.63987	12.38769	0	1.839992	14.22768	35.1867	47.88734	97.30172	1546417	0	47671.01	1594088	49.04355	0	64.15674	113.2003	58.78209	0	21.86206	80.64415
0.004423	0.267265	0.272608	0	0	0.272608	0.008109	0.012636	0.293353	448.4513	0	0	448.4513	0.015539	0	0	0.015539	0.070654	0	0	0.070654
0.015903	0.036593	0	0	0	0	0.082761	0.045437	0.128198	0	0	0	0	0	0	0	0	0	0	0	0
0.008759	0.024283	0.003004	0	0.000735	0.003739	0.048346	0.025026	0.077111	843.8817	0	34.0884	877.9701	0.003043	0	0.019551	0.022595	0.00356	0	0.009909	0.013469
87.79418	178.5275	40.03682	0	6.056493	46.09332	193.4072	250.8405	490.341	8764922	0	243641.1	9008563	100.4411	0	231.6675	332.1085	168.7959	0	104.004	272.8
0.277113	0.954571	0.545049	0	0	0.545049	0.62395	0.79175	1.96075	25793.31	0	0	25793.31	0.074632	0	0	0.074632	4.063746	0	0	4.063746
0.158492	0.36645	0	0	0	0	0.831833	0.452835	1.284668	0	0	0	0	0	0	0	0	0	0	0	0
0.309865	0.891943	0.134767	0	0.032739	0.167506	1.712249	0.885328	2.765083	31028.9	0	1351.833	32380.73	0.112	0	0.715977	0.827977	0.13108	0	0.363034	0.494114
47.97857	53.70167	2.150933	0	0.250666	2.401599	14.05965	137.0816	153.5429	1128654	5336.598	17217.66	1151208	11.67662	5.18908	22.42555	39.29125	18.29169	0.135955	34.15534	52.58298
22.7303	43.94196	19.03116	0.52883	0	19.55999	9.991338	64.9437	94.49502	415263.3	2467.956	0	417731.3	3.830971	0.096239	0	3.927211	65.42491	0.388827	0	65.81374
8.121596	8.915642	0.277837	0	0.031099	0.308937	2.039961	23.20456	25.55346	187217.4	952.7829	2621.399	190791.5	1.208789	0.798422	3.497988	5.5052	2.822264	0.020429	5.195011	8.037704
11.67677	20.89802	8.251264	0.23735	0	8.488614	4.39941	33.36219	46.25021	217027.3	1764.244	0	218791.6	1.654539	0.042972	0	1.697511	34.19274	0.277957	0	34.4707
1.514124	3.028851	0.822828	0	0.408615	1.231443	1.442023	4.326068	6.999534	70551.42	0	5191.125	75742.55	65.56861	0	18.56851	84.13712	14.03581	0	0.876657	14.91247
50.38885	102.6085	23.53057	0	3.891906	27.42247	108.009	143.9682	279.3996	5996032	0	178753.2	6174785	86.69206	0	179.3683	266.0604	135.6626	0	70.57133	206.234
0.588172	2.340924	1.498486	0	0	1.498486	1.276359	1.680491	4.455336	70272.1	0	0	70272.1	0.148567	0	0	0.148567	11.0714	0	0	11.0714
0.170569	0.394445	0	0	0	0	0.895501	0.487341	1.382842	0	0	0	0	0	0	0	0	0	0	0	0
0.155601	0.468843	0.084709	0	0.022144	0.106853	0.859981	0.444573	1.411407	16032.11	0	943.9345	16976.05	0.057373	0	0.395713	0.453086	0.066605	0	0.199023	0.265628
0.830287	1.070385	0.083321	0	0.000266	0.083587	0.65297	2.37225	3.108807	96792.86	0	17.74554	96810.61	0.873133	0	0.020951	0.894084	1.435397	0	0.023587	1.458984
0.295763	2.140828	1.846929	0	0	1.846929	0.312134	0.845037	3.0041	19896.24	0	0	19896.24	0.062508	0	0	0.062508	3.134661	0	0	3.134661
4.501313	5.721319	0.306085	0	0.058265	0.364349	3.540003	12.86089	16.76525	490083.5	2977.464	5074.973	498136	4.090219	1.408714	5.247035	10.74597	7.190432	0.040328	3.577478	10.80824
13.05351	27.72468	12.01294	0.644489	0	12.65742	10.24522	37.29574	60.19838	932676.1	45017.98	0	977694.1	0.954061	0.231063	0	1.185124	146.9435	7.092601	0	154.0361
0.001542	0.002147	0	0	0	0	0.00242	0.004406	0.006826	0	0	0	0	0	0	0	0	0	0	0	0
0.210951	0.269003	0.012466	0.005479	0	0.017945	0.16621	0.602717	0.786872	11876.52	1559.418	0	13435.93	7.347122	5.27345	0	12.62057	2.421105	0.317897	0	2.739003
0.850825	1.067343	0.046989	0	0.008316	0.055304	0.662669	2.430929	3.148903	93746.15	524.3151	867.9155	95138.38	0.699815	0.26584	0.975639	1.941294	1.323959	0.007199	0.820103	2.15126
1.247261	3.228608	1.889134	0.01363	0	1.902765	0.643578	3.563603	6.109946	76914.24	2293.803	0	79208.04	0.1422	0.037495	0	0.179695	12.11787	0.36139	0	12.47926
0.096908	0.12042	0.004684	0.000366	0	0.00505	0.075477	0.27688	0.357407	5612.712	124.0344	0	5736.746	3.342527	0.469956	0	3.812483	1.144188	0.025285	0	1.169473
0.348738	0.414908	0.024703	0	0.000996	0.0257	0.17016	0.996394	1.192254	19181.61	1257.989	109.5578	20549.15	0.308336	1.162136	0.134177	1.604649	0.596017	0.040276	0.124767	0.761059
0.196272	0.884902	0.654456	0.027775	0	0.68223	0.143651	0.560776	1.386657	15280.25	1378.061	0	16658.31	0.091383	0.004705	0	0.096088	2.407409	0.217114	0	2.624523
5.64E-05	7.71E-05	0	0	0	0	8.26E-05	0.000161	0.000244	0	0	0	0	0	0	0	0	0	0	0	0
0.213581	0.312494	0.058397	0.006678	0	0.065074	0.156319	0.61023	0.831624	22413.76	2157.017	0	24570.77	61.80121	7.846186	0	69.6474	4.569191	0.439722	0	5.008913
0.412913	0.457043	0.01418	0	0.000352	0.014532	0.123072	1.179752	1.317356	21042.72	0	60.25159	21102.97	0.056737	0	0.072372	0.129109	0.236355	0	0.05044	0.286795
0.017611	0.024383	0.002894	0	0	0.002894	0.016013	0.050319	0.069226	793.6076	0	0	793.6076	0.002212	0	0	0.002212	0.125033	0	0	0.125033
0.016613	0.022297	0	0	0	0	0.022739	0.047465	0.070203	0	0	0	0	0	0	0	0	0	0	0	0
5.788991	7.107246	0.058502	0	0	0.058502	5.049137	16.53997	21.64761	387954.4	0	0	387954.4	394.7515	0	0	394.7515	79.08704	0	0	79.08704

ROG_RUNI	ROG_IDLE	ROG_STRE	ROG_TOTE	ROG_DIUR	ROG_HOTS	ROG_RUNI	ROG_TOTA	TOG_RUNI	TOG_IDLE	TOG_STRE	TOG_TOTE	TOG_DIUR	TOG_HOTS	TOG_RUNI	TOG_TOTA	CO_RUNE	CO_IDLEX	CO_STREX	CO_TOTEX	SOx_RUNE
1.125098	0	0.000173	1.125271	0.150028	0.041328	0.350764	1.667391	1.64174	0	0.000189	1.641929	0.150028	0.041328	0.350764	2.184049	58.6862	0	1.741337	60.42754	0.024861
31.49756	92.95477	0	124.4523	0	0	0	124.4523	35.85757	105.8219	0	141.6795	0	0	0	141.6795	190.5493	1349.434	0	1539.984	33.90886
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.059804	0.700095	0	5.759899	0	0	0	5.759899	187.2375	41.75808	0	228.9955	0	0	0	228.9955	1044.1	114.3606	0	1158.46	0
635.4574	0	1979.879	2615.336	1979.328	578.1407	1433.132	6605.937	926.9507	0	2167.711	3094.661	1979.328	578.1407	1433.132	7085.263	44609.65	0	19047.61	63657.26	148.3089
5.340927	0	0	5.340927	0	0	0	5.340927	6.08029	0	0	6.08029	0	0	0	6.08029	51.43537	0	0	51.43537	0.260018
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.632398	0	21.85621	24.4886	15.27391	5.493746	4.756472	50.01273	3.841188	0	23.92979	27.77098	15.27391	5.493746	4.756472	53.29511	380.8339	0	166.2437	547.0776	2.302509
221.6873	0	337.3904	559.0777	421.1682	112.2377	324.2735	1416.757	323.3873	0	369.3991	692.7864	421.1682	112.2377	324.2735	1550.466	9484.317	0	3229.683	12714	15.28791
0.334548	0	0	0.334548	0	0	0	0.334548	0.380861	0	0	0.380861	0	0	0	0.380861	1.820256	0	0	1.820256	0.004249
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.009529	0	0.078652	0.08818	0.03508	0.01207	0.010507	0.145838	0.013904	0	0.086114	0.100018	0.03508	0.01207	0.010507	0.157675	1.382877	0	0.598245	1.981122	0.008343
404.4335	0	1075.982	1480.416	869.0753	238.8536	628.8154	3217.16	590.0799	0	1178.064	1768.144	869.0753	238.8536	628.8154	3504.888	25146.85	0	10067.83	35214.68	86.65018
1.606789	0	0	1.606789	0	0	0	1.606789	1.829222	0	0	1.829222	0	0	0	1.829222	14.09892	0	0	14.09892	0.244405
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.350457	0	2.878614	3.229071	1.42016	0.46782	0.426228	5.543278	0.511386	0	3.15172	3.663106	1.42016	0.46782	0.426228	5.977313	50.81595	0	21.89544	72.71139	0.306752
58.82463	18.78424	109.5966	187.2055	134.43	34.60671	187.0976	543.3399	85.83676	27.40992	119.9945	233.2412	134.43	34.60671	187.0976	589.3756	2057.332	167.0038	2027.98	4252.316	11.15789
82.47856	2.071975	0	84.55053	0	0	0	84.55053	93.89635	2.358806	0	96.25516	0	0	0	96.25516	228.7978	17.1736	0	245.9714	3.934831
5.678632	2.90418	17.11415	25.69696	20.44903	5.208592	27.40667	78.76126	8.286246	4.237772	18.73784	31.26186	20.44903	5.208592	27.40667	84.32615	225.5833	25.71247	306.9659	558.2616	1.850834
35.62125	0.925152	0	36.54641	0	0	0	36.54641	40.55243	1.053224	0	41.60565	0	0	0	41.60565	90.04121	7.668137	0	97.70935	2.056444
429.3364	0	138.0813	567.4177	221.331	395.9973	401.8801	1586.626	517.0565	0	150.1147	667.1712	221.331	395.9973	401.8801	1686.38	4677.899	0	813.0623	5490.962	0.697473
376.035	0	906.7073	1282.742	672.5777	177.1038	499.9521	2632.376	547.6275	0	992.7221	1540.35	672.5777	177.1038	499.9521	2889.983	18224.61	0	6797.246	25021.85	59.27688
3.198558	0	0	3.198558	0	0	0	3.198558	3.641346	0	0	3.641346	0	0	0	3.641346	49.36734	0	0	49.36734	0.665864
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.181139	0	1.605296	1.786435	0.890093	0.292609	0.269439	3.238576	0.264317	0	1.757597	2.021914	0.890093	0.292609	0.269439	3.474055	26.23517	0	12.21028	38.44545	0.158494
3.989931	0	0.08721	4.077141	26.52445	7.201141	0.16206	37.96479	5.822098	0	0.095484	5.917582	26.52445	7.201141	0.16206	39.80523	120.7829	0	1.968088	122.7509	0.956896
1.345752	0	0	1.345752	0	0	0	1.345752	1.53205	0	0	1.53205	0	0	0	1.53205	5.675658	0	0	5.675658	0.188527
20.15369	5.448057	28.6577	54.25945	16.57	4.044269	31.23386	106.1076	29.40822	7.949792	31.37657	68.73458	16.57	4.044269	31.23386	120.5827	523.1018	78.02978	606.7407	1207.872	4.844975
20.54067	4.974714	0	25.51538	0	0	0	25.51538	23.38399	5.663334	0	29.04732	0	0	0	29.04732	83.14353	148.7247	0	231.8682	8.831885
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.104976	0.075347	0	0.180323	0	0	0	0.180323	7.498277	5.381942	0	12.88022	0	0	0	12.88022	32.63578	9.546073	0	42.18185	0
3.425055	1.020858	5.209704	9.655617	4.034507	1.012519	4.4357	19.13834	4.997832	1.489634	5.703971	12.19144	4.034507	1.012519	4.4357	21.67416	87.46148	7.905683	106.7427	202.1098	0.926776
3.061528	0.807254	0	3.868782	0	0	0	3.868782	3.485317	0.918997	0	4.404314	0	0	0	4.404314	11.94719	12.18426	0	24.13145	0.728332
0.047758	0.006715	0	0.054473	0	0	0	0.054473	3.411294	0.479625	0	3.890919	0	0	0	3.890919	16.34077	0.610274	0	16.95104	0
1.539194	5.098352	0.776863	7.41441	0.891507	0.242158	0.573375	9.12145	2.245989	7.439504	0.850567	10.53606	0.891507	0.242158	0.573375	12.2431	30.4597	39.43133	18.04844	87.93947	0.18963
1.967441	0.101302	0	2.068744	0	0	0	2.068744	2.239782	0.115325	0	2.355107	0	0	0	2.355107	4.643005	1.570409	0	6.213414	0.144695
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.883017	0.112107	0	0.995124	0	0	0	0.995124	63.07267	8.007609	0	71.08028	0	0	0	71.08028	214.6695	11.30842	0	225.9779	0
0.188746	0	0.309843	0.498589	0.105164	0.034455	0.071724	0.709932	0.275418	0	0.339239	0.614657	0.105164	0.034455	0.071724	0.826	4.710141	0	5.372559	10.0827	0.208029
0.047623	0	0	0.047623	0	0	0	0.047623	0.054215	0	0	0.054215	0	0	0	0.054215	0.06154	0	0	0.06154	0.00752
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.697106	0	0	5.697106	0	0	0	5.697106	402.935	0	0	402.935	0	0	0	402.935	5854.961	0	0	5854.961	0

SOx_IDLEX SOx_STREX SOx_TOTE NH3_RUNE Fuel Consumption

0	0.000207	0.025068	0.050686	267.383
2.106378	0	36.01524	479.4544	339749.8
0	0	0	0	0
0	0	0	94.99242	19016.29
0	4.200929	152.5098	1733.347	1626739
0	0	0.260018	0.331544	2451.299
0	0	0	0	0
0	0.086886	2.389395	29.76628	25486.37
0	0.471277	15.75918	165.9804	168094.6
0	0	0.004249	0.003142	40.05998
0	0	0	0	0
0	0.000337	0.00868	0.116764	92.58085
0	2.408641	89.05882	882.6332	949941.7
0	0	0.244405	0.241781	2304.106
0	0	0	0	0
0	0.013364	0.320116	4.28819	3414.507
0.052758	0.170214	11.38086	78.79948	121393.4
0.023385	0	3.958216	147.6746	37315.77
0.009419	0.025915	1.886169	11.46564	20118.73
0.016717	0	2.073161	66.83733	19544.56
0	0.05132	0.748792	3.179349	7986.957
0	1.767157	61.04404	489.0711	651123.4
0	0	0.665864	0.494589	6277.379
0	0	0	0	0
0	0.009332	0.167825	2.219683	1790.103
0	0.000175	0.957071	2.428795	10208.56
0	0	0.188527	2.936541	1777.323
0.029435	0.050171	4.924581	13.26206	52527.82
0.426293	0	9.258178	178.3499	87337.02
0	0	0	0	0
0	0	0	14.68188	1552.989
0.005183	0.00858	0.94054	2.482617	10032.22
0.021721	0	0.750053	11.29508	7075.623
0	0	0	6.66715	663.0804
0.012437	0.001083	0.203149	0.95715	2166.883
0.013049	0	0.157744	0.895603	1488.08
0	0	0	0	0
0	0	0	13.80817	2840.006
0	0.000596	0.208624	0.505324	2225.282
0	0	0.00752	0.079015	70.89265
0	0	0	0	0
0	0	0	146.0187	44841.61

Compton 2045 General Plan Update
City of Compton, California
Appendix D: Energy Consumption Information

Sheet 5: Raw EMFAC Output - Los Angeles (SC) Sub-Area 2045

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Los Angeles (SC)
Calendar Year: 2045
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for CVMT and EVMT, trips/year for Trips, kWh/year for Energy Consumption, tons/year for Emissions, 1000 gallons/year for Fuel Consumption

Region	Calendar Yr	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	Energy Consum	NOx_RUNE	NOx_IDLEX	NOx_STRE	NOx_TOTE	PM2.5_RUI	PM2.5_IDL	PM2.5_STF	PM2.5_TO	PM2.5_PM	PM2.5_PM
Los Angeles	2045	HHDT	Aggregate	Aggregate	Gasoline	9.692067	362481.7	362481.7	0	63411.47	0	0.811539	0	0.046506	0.858045	0.000387	0	3.24E-05	0.00042	0.001998	0.012563
Los Angeles	2045	HHDT	Aggregate	Aggregate	Diesel	69267.02	2.98E+09	2.98E+09	0	3.61E+08	0	3974.421	1426.403	1011.208	6412.032	72.78541	0.593738	0	73.37915	29.25913	99.04812
Los Angeles	2045	HHDT	Aggregate	Aggregate	Electricity	19941.5	5.81E+08	0	580605690	75934098	1039650167	0	0	0	0	0	0	0	0	5.49978	10.19888
Los Angeles	2045	HHDT	Aggregate	Aggregate	Natural Ga	6229.23	1.2E+08	1.2E+08	0	14047162	0	29.31643	17.09987	0	46.4163	0.199743	0.059867	0	0.259609	1.187703	6.497929
Los Angeles	2045	LDA	Aggregate	Aggregate	Gasoline	2814427	3.68E+10	3.68E+10	0	4.56E+09	0	789.9738	0	774.4508	1564.425	21.91406	0	3.866781	25.78084	81.1334	123.9719
Los Angeles	2045	LDA	Aggregate	Aggregate	Diesel	1795.526	21773519	21773519	0	2818813	0	0.406265	0	0	0.406265	0.028728	0	0	0.028728	0.048002	0.07355
Los Angeles	2045	LDA	Aggregate	Aggregate	Electricity	382921.1	5.21E+09	0	5205305488	6.28E+08	2009677536	0	0	0	0	0	0	0	0	11.47573	8.81572
Los Angeles	2045	LDA	Aggregate	Aggregate	Plug-in Hyt	131778.2	1.75E+09	7.15E+08	1035134934	1.89E+08	312641601.9	5.47175	0	23.23651	28.70826	0.427113	0	0.166873	0.593986	3.859026	2.836236
Los Angeles	2045	LDT1	Aggregate	Aggregate	Gasoline	259917.9	3.22E+09	3.22E+09	0	4.08E+08	0	80.9873	0	78.40968	159.397	2.176257	0	0.388198	2.564455	7.101141	13.27408
Los Angeles	2045	LDT1	Aggregate	Aggregate	Diesel	2.866037	37049.24	37049.24	0	4624.019	0	0.001323	0	0	0.001323	0.00018	0	0	0.00018	8.17E-05	0.000151
Los Angeles	2045	LDT1	Aggregate	Aggregate	Electricity	7356.24	99357374	0	99357373.6	12042143	38360146.62	0	0	0	0	0	0	0	0	0.219046	0.16844
Los Angeles	2045	LDT1	Aggregate	Aggregate	Plug-in Hyt	5623.181	74792555	30458318	44334237.3	8068393	13390261.04	0.232997	0	0.991538	1.224535	0.017577	0	0.006667	0.024244	0.164889	0.121341
Los Angeles	2045	LDT2	Aggregate	Aggregate	Gasoline	1911088	2.48E+10	2.48E+10	0	3.08E+09	0	642.0531	0	664.7822	1306.835	15.30229	0	2.643416	17.94571	54.7815	100.7115
Los Angeles	2045	LDT2	Aggregate	Aggregate	Diesel	7230.624	94624329	94624329	0	11709547	0	3.381425	0	0	3.381425	0.452252	0	0	0.452252	0.208611	0.382912
Los Angeles	2045	LDT2	Aggregate	Aggregate	Electricity	74994.05	7.08E+08	0	708125733	1.23E+08	273394977.9	0	0	0	0	0	0	0	0	1.56115	1.200185
Los Angeles	2045	LDT2	Aggregate	Aggregate	Plug-in Hyt	51509.83	6.78E+08	2.77E+08	401477479	73908620	121258164.5	2.115983	0	9.082753	11.19874	0.161993	0	0.062161	0.224154	1.494927	1.09986
Los Angeles	2045	LHDT1	Aggregate	Aggregate	Gasoline	87404.51	9.91E+08	9.91E+08	0	4.26E+08	0	19.80364	0.767517	181.7009	202.2721	1.074889	0	0.047086	1.121975	2.185474	29.83173
Los Angeles	2045	LHDT1	Aggregate	Aggregate	Diesel	65755.33	7.33E+08	7.33E+08	0	2.7E+08	0	142.4816	21.03573	0	163.5174	9.140527	0.625361	0	9.765888	2.424829	22.06594
Los Angeles	2045	LHDT1	Aggregate	Aggregate	Electricity	100268	1.4E+09	0	1404697105	4.57E+08	787910032.8	0	0	0	0	0	0	0	0	3.096827	21.13584
Los Angeles	2045	LHDT2	Aggregate	Aggregate	Gasoline	12503.63	1.35E+08	1.35E+08	0	60915352	0	3.338874	0.095677	22.63802	26.07257	0.145043	0	0.006136	0.151179	0.297262	4.733902
Los Angeles	2045	LHDT2	Aggregate	Aggregate	Diesel	31657.66	3.4E+08	3.4E+08	0	1.3E+08	0	95.70565	10.74794	0	106.4536	5.242749	0.300459	0	5.543208	1.124772	11.94133
Los Angeles	2045	LHDT2	Aggregate	Aggregate	Electricity	27262.51	3.66E+08	0	365994895	1.18E+08	205400736.1	0	0	0	0	0	0	0	0	0.806881	6.424787
Los Angeles	2045	MCY	Aggregate	Aggregate	Gasoline	198119.8	3.83E+08	3.83E+08	0	1.37E+08	0	197.8741	0	9.746465	207.6206	0.990142	0	0.510604	1.500746	0.422326	1.773768
Los Angeles	2045	MDV	Aggregate	Aggregate	Gasoline	1110677	1.36E+10	1.36E+10	0	1.78E+09	0	412.2168	0	417.678	829.8947	8.661918	0	1.573506	10.23542	29.96962	56.16764
Los Angeles	2045	MDV	Aggregate	Aggregate	Diesel	11954.32	1.46E+08	1.46E+08	0	19137237	0	2.219829	0	0	2.219829	0.173229	0	0	0.173229	0.322451	0.604494
Los Angeles	2045	MDV	Aggregate	Aggregate	Electricity	68822.17	6.42E+08	0	641729259	1.13E+08	247760458.9	0	0	0	0	0	0	0	0	1.414771	1.088904
Los Angeles	2045	MDV	Aggregate	Aggregate	Plug-in Hyt	32590.39	4.04E+08	1.65E+08	238876572	46762156	72147844.32	1.26131	0	5.746679	7.007988	0.098665	0	0.040225	0.13889	0.890139	0.655696
Los Angeles	2045	MH	Aggregate	Aggregate	Gasoline	12978.67	44752627	44752627	0	424572.3	0	8.951175	0	0.160798	9.111972	0.051131	0	0.000161	0.051292	0.147994	0.750562
Los Angeles	2045	MH	Aggregate	Aggregate	Diesel	7803.79	24356538	24356538	0	255183.9	0	52.09107	0	0	52.09107	0.53351	0	0	0.53351	0.107394	0.406041
Los Angeles	2045	MHDT	Aggregate	Aggregate	Gasoline	6921.079	1.06E+08	1.06E+08	0	45281960	0	7.971001	0.14752	16.96092	25.07944	0.121383	0	0.022778	0.14416	0.35078	1.779003
Los Angeles	2045	MHDT	Aggregate	Aggregate	Diesel	50020.49	6.29E+08	6.29E+08	0	1.94E+08	0	183.1715	113.9818	248.4858	545.6391	2.480813	0.043747	0	2.524559	2.079127	10.55952
Los Angeles	2045	MHDT	Aggregate	Aggregate	Electricity	49459.25	7.06E+08	0	705544943	2.06E+08	740122739.6	0	0	0	0	0	0	0	0	2.333191	5.926682
Los Angeles	2045	MHDT	Aggregate	Aggregate	Natural Ga	1021.254	12733337	12733337	0	2866827	0	0.825127	2.25809	0	3.083218	0.01576	0.00803	0	0.02379	0.042108	0.213269
Los Angeles	2045	OBUS	Aggregate	Aggregate	Gasoline	1725.048	14899515	14899515	0	11286329	0	3.891422	0.031389	4.271388	8.194198	0.016642	0	0.003312	0.019954	0.049272	0.253492
Los Angeles	2045	OBUS	Aggregate	Aggregate	Diesel	2309.989	50470694	50470694	0	9060080	0	49.06527	5.686866	10.15001	64.90214	0.684975	0.004999	0	0.689974	0.166903	1.428831
Los Angeles	2045	OBUS	Aggregate	Aggregate	Electricity	934.8739	16266111	0	16266111.2	6116521	17122232.1	0	0	0	0	0	0	0	0	0.053791	0.138371
Los Angeles	2045	OBUS	Aggregate	Aggregate	Natural Ga	454.7828	6827369	6827369	0	1181890	0	0.609934	0.219689	0	0.829623	0.00845	0.000699	0	0.009148	0.022578	0.116157
Los Angeles	2045	SBUS	Aggregate	Aggregate	Gasoline	1037.721	13998138	13998138	0	1357339	0	1.762627	0.241954	0.894224	2.898804	0.023479	0	0.00117	0.024649	0.030861	0.252991
Los Angeles	2045	SBUS	Aggregate	Aggregate	Diesel	501.0258	3416793	3416793	0	2372337	0	1.705151	1.148142	1.604524	4.457817	0.012839	0.00042	0	0.013259	0.011299	0.061752
Los Angeles	2045	SBUS	Aggregate	Aggregate	Electricity	1771.17	17485961	0	17485961	6426740	20219040.2	0	0	0	0	0	0	0	0	0.049353	0.158014
Los Angeles	2045	SBUS	Aggregate	Aggregate	Natural Ga	1405.554	9466475	9466475	0	6655241	0	3.636078	2.555349	0	6.191427	0.043011	0.008499	0	0.051511	0.031305	0.17109
Los Angeles	2045	UBUS	Aggregate	Aggregate	Gasoline	204.0812	3874863	3874863	0	266938.3	0	0.076835	0	0.083153	0.159989	0.0042	0	3.94E-05	0.004239	0.008543	0.136041
Los Angeles	2045	UBUS	Aggregate	Aggregate	Electricity	6147.779	2.11E+08	0	211202617	8041295	443862060.5	0	0	0	0	0	0	0	0	1.945671	4.481612
Los Angeles	2045	UBUS	Aggregate	Aggregate	Natural Ga	58.26446	1326651	1326651	0	76209.91	0	0.186396	0	0	0.186396	0.013786	0	0	0.013786	0.004387	0.046577

PM2.5_TO	PM10_RUN	PM10_IDLE	PM10_STR	PM10_TOT	PM10_PM	PM10_PMI	PM10_TOT	CO2_RUNE	CO2_IDLEX	CO2_STRE	CO2_TOTE	CH4_RUNE	CH4_IDLEX	CH4_STREX	CH4_TOTE	N2O_RUNE	N2O_IDLEX	N2O_STRE	N2O_TOTE	ROG_RUNE	ROG_IDLEX	ROG_STRE
0.01498	0.000421	0	3.53E-05	0.000456	0.007991	0.035893	0.044341	649.088	0	2.9955	652.0835	0.02789	0	1.09E-05	0.027901	0.038491	0	0.002446	0.040937	0.122938	0	5.56E-05
201.6864	76.07644	0.620584	0	76.69703	117.0365	282.9946	476.7282	4163607	274026.3	0	4437633	1.542702	0	8.235185	655.9779	43.17295	0	699.1509	33.21396	144.0873	0	
15.69866	0	0	0	0	21.99912	29.13967	51.13879	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.945241	0.217239	0.06511	0	0.282349	4.75081	18.56551	23.59867	138497.1	17943.29	0	156440.4	95.7458	40.93932	0	136.6851	28.23354	3.657857	0	31.8914	1.664583	0.599502	0
230.8861	23.83354	0	4.205477	28.03901	324.5336	354.2054	706.778	9443459	0	269091.4	9712550	46.07929	0	154.4187	200.4979	129.0766	0	122.4595	251.536	134.2484	0	585.6955
0.15028	0.030027	0	0	0.030027	0.19201	0.210144	0.43218	4615.943	0	0	4615.943	0.006885	0	0	0.006885	0.727244	0	0	0.727244	0.148225	0	0
20.29145	0	0	0	0	45.90294	25.18777	71.09071	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.289248	0.464524	0	0.18149	0.646014	15.4361	8.10353	24.18565	238609.6	0	11559.5	250169.1	0.819521	0	7.996621	8.816142	0.918941	0	3.85236	4.771301	2.689951	0	33.94197
22.93967	2.366878	0	0.422201	2.789079	28.40456	37.92594	69.11958	963927.6	0	28219.71	992147.3	4.648953	0	15.29745	19.9464	12.32802	0	11.95436	24.28237	14.01313	0	59.28974
0.000412	0.000188	0	0	0.000188	0.000327	0.000431	0.000946	14.612	0	0	14.612	3.32E-05	0	0	3.32E-05	0.002302	0	0	0.002302	0.000714	0	0
0.387485	0	0	0	0	0.876182	0.481257	1.357439	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.310474	0.019117	0	0.007251	0.026368	0.659557	0.346689	1.032614	10159.43	0	564.3464	10723.78	0.034845	0	0.341578	0.376423	0.039013	0	0.164703	0.203717	0.114543	0	1.448357
173.4387	16.64264	0	2.874956	19.51759	219.126	287.7471	526.3907	7666626	0	222482.9	7889109	42.35847	0	134.2584	176.6169	95.68096	0	100.0188	195.6997	129.2687	0	526.9937
1.043776	0.472701	0	0	0.472701	0.834444	1.094035	2.40118	27648.21	0	0	27648.21	0.084251	0	0	0.084251	4.355986	0	0	4.355986	1.813877	0	0
2.761335	0	0	0	0	6.2446	3.429099	9.673699	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.818942	0.176182	0	0.067606	0.243788	5.979709	3.142458	9.365954	92265.83	0	5432.531	97698.36	0.316115	0	3.125639	3.441754	0.353556	0	1.505554	1.85911	1.040232	0	13.26733
33.13918	1.16904	0	0.051211	1.22025	8.741898	85.2335	95.19565	558413	3377.12	11015.87	572806	0.56304	2.630366	9.041756	12.23516	1.847395	0.076959	17.80369	19.72804	1.868201	8.815191	39.43485
34.25666	9.553821	0.653637	0	10.20746	9.699316	63.04555	82.95233	378947	2713.389	0	381660.4	1.724261	0.120835	0	1.845097	59.70325	0.427496	0	60.13075	37.12233	2.601512	0
24.23267	0	0	0	0	12.38731	60.38813	72.77543	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5.182343	0.157747	0	0.006674	0.164421	1.189049	13.52543	14.8789	85537.74	557.1587	1549.342	87644.24	0.069046	0.331046	1.131948	1.532039	0.338369	0.00967	2.242212	2.590252	0.224733	1.098882	4.868643
18.60931	5.479803	0.314044	0	5.793847	4.49909	34.1181	44.41103	204706.4	2125.004	0	206831.4	0.981171	0.058176	0	1.039346	32.25157	0.334795	0	32.58637	21.12403	1.252488	0
7.231668	0	0	0	0	3.227522	18.35653	21.58406	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.696839	1.062057	0	0.547446	1.609503	1.689303	5.067908	8.366714	81374.91	0	5393.964	86768.87	63.16729	0	18.59494	81.76223	14.95552	0	0.653399	15.60892	379.2963	0	130.4216
96.37268	9.420626	0	1.711332	11.13196	119.8785	160.479	291.4894	5098955	0	156527	5255482	25.59216	0	81.90988	107.502	55.86413	0	59.89785	115.762	81.5979	0	331.3892
1.100173	0.181061	0	0	0.181061	1.289803	1.727124	3.197989	55602.05	0	0	55602.05	0.04732	0	0	0.04732	8.760126	0	0	8.760126	1.018763	0	0
2.503675	0	0	0	0	5.659083	3.111153	8.770237	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.684725	0.107307	0	0.043748	0.151055	3.560556	1.873418	5.585029	54997.11	0	4187.115	59184.22	0.186989	0	1.963737	2.150726	0.207543	0	0.939252	1.146796	0.620069	0	8.394274
0.949847	0.055609	0	0.000175	0.055784	0.591976	2.144462	2.792222	87670.45	0	13.98257	87684.43	0.157893	0	0.015245	0.173138	0.845192	0	0.018915	0.864107	0.433872	0	0.05369
1.046945	0.557633	0	0	0.557633	0.429576	1.160116	2.147325	27434.28	0	0	27434.28	0.047024	0	0	0.047024	4.322282	0	0	4.322282	1.012405	0	0
2.273943	0.132015	0	0.024773	0.156787	1.403119	5.082867	6.642773	165283.2	1175.088	1867.661	168325.9	0.275041	0.670359	1.859136	2.804536	0.791531	0.014205	1.473796	2.279532	1.019032	2.535616	9.116756
15.16321	2.592984	0.045725	0	2.638709	8.316509	30.17006	41.12528	676758.6	32386.3	0	709144.9	0.166279	0.140761	0	0.30704	106.6236	5.102474	0	111.7261	3.579945	3.03055	0
8.259872	0	0	0	0	9.332762	16.93338	26.26614	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.279167	0.01714	0.008734	0	0.025874	0.168433	0.609339	0.803646	11341.34	1922.983	0	13264.33	8.082239	5.385904	0	13.46814	2.312007	0.392013	0	2.70402	0.115479	0.076954	0
0.322717	0.018099	0	0.003602	0.021701	0.197087	0.724263	0.943051	24058.43	217.024	346.4428	24621.89	0.068713	0.115648	0.368572	0.552933	0.236364	0.002344	0.290476	0.529184	0.307757	0.466673	2.001832
2.285708	0.715946	0.005225	0	0.721171	0.667613	4.082373	5.471157	70358.77	2277.476	0	72636.24	0.039543	0.045651	0	0.085194	11.08505	0.358817	0	11.44387	0.851352	0.98285	0
0.192162	0	0	0	0	0.215164	0.395346	0.61051	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.147883	0.00919	0.00076	0	0.00995	0.090311	0.331877	0.432137	5933.806	169.4082	0	6103.214	4.580567	0.553998	0	5.134565	1.209645	0.034535	0	1.24418	0.065447	0.007916	0
0.308501	0.025535	0	0.001273	0.026808	0.123442	0.722833	0.873083	12322.7	876.081	73.52927	13272.31	0.040206	0.911492	0.094037	1.045736	0.166711	0.025497	0.085531	0.277739	0.175631	3.980486	0.527677
0.086311	0.013419	0.000439	0	0.013858	0.045196	0.176436	0.235491	4259.84	336.0429	0	4595.883	0.00186	0.0014	0	0.00326	0.671139	0.052944	0	0.724083	0.040037	0.030149	0
0.207367	0	0	0	0	0.197412	0.451468	0.64888	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.253906	0.046779	0.009244	0	0.056023	0.12522	0.488828	0.670071	15481.57	2153.175	0	17634.75	36.29945	6.308566	0	42.60802	3.15602	0.438939	0	3.594959	0.518648	0.090137	0
0.148823	0.004567	0	4.28E-05	0.00461	0.03417	0.388689	0.42747	2408.075	0	10.06084	2418.136	0.002237	0	0.008077	0.010314	0.012758	0	0.013563	0.026321	0.005777	0	0.027057
6.427283	0	0	0	0	7.782682	12.80461	20.58729	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.06475	0.014409	0	0	0.014409	0.017549	0.133077	0.165035	831.1395	0	0	831.1395	0.003698	0	0	0.003698	0.169433	0	0	0.169433	0.079612	0	0

ROG_TOTE	ROG_DIUR	ROG_HOTS	ROG_RUNI	ROG_TOTA	TOG_RUNE	TOG_IDLEX	TOG_STRE	TOG_TOTE	TOG_DIURI	TOG_HOTS	TOG_RUNI	TOG_TOTA	CO_RUNEX	CO_IDLEX	CO_STREX	CO_TOTEX	SOx_RUNE	SOx_IDLEX	SOx_STREX	SOx_TOTE	NH3_RUNE	Fuel
0.122994	0.006719	0.000911	0.013025	0.143649	0.179391	0	6.09E-05	0.179452	0.006719	0.000911	0.013025	0.200107	11.05213	0	0.328993	11.38112	0.006417	0	2.96E-05	0.006447	0.017981	68.76139
177.3013	0	0	0	177.3013	37.81157	164.0324	0	201.844	0	0	0	201.844	152.9816	2128.136	0	2281.118	39.42687	2.594865	0	42.02173	720.9348	396412
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2.264084	0	0	0	2.264084	98.0535	41.79817	0	139.8517	0	0	0	139.8517	659.9128	151.4212	0	811.334	0	0	0	0	112.1592	18082.13
719.9439	1005.391	192.7283	745.86	2663.923	195.8949	0	641.2629	837.1577	1005.391	192.7283	745.86	2781.137	20700.34	0	7711.127	28411.47	93.35821	0	2.660242	96.01845	1698.088	1024176
0.148225	0	0	0	0.148225	0.168744	0	0	0.168744	0	0	0	0.168744	4.466974	0	0	4.466974	0.043738	0	0	0.043738	0.074404	412.3404
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36.63192	42.95666	8.223051	16.87135	104.683	3.92517	0	37.16219	41.08736	42.95666	8.223051	16.87135	109.1384	389.5377	0	258.171	647.7087	2.358899	0	0.114277	2.473176	33.08129	26380.02
73.30287	143.3844	24.89413	104.4419	346.0233	20.44793	0	64.9148	85.36273	143.3844	24.89413	104.4419	358.0831	2016.51	0	741.7907	2758.3	9.529406	0	0.278981	9.808386	146.8339	104620.7
0.000714	0	0	0	0.000714	0.000813	0	0	0.000813	0	0	0	0.000813	0.007566	0	0	0.007566	0.000138	0	0	0.000138	0.000127	1.305284
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1.5629	1.498389	0.309744	0.54537	3.916402	0.167141	0	1.585769	1.752909	1.498389	0.309744	0.54537	4.106412	16.58196	0	11.01656	27.59852	0.100436	0	0.005579	0.106015	1.410131	1130.809
656.2624	720.0859	134.1834	536.1037	2046.635	188.6286	0	576.9918	765.6203	720.0859	134.1834	536.1037	2155.993	16683.34	0	6679.506	23362.84	75.79241	0	2.19947	77.99188	1144.539	831896.7
1.813877	0	0	0	1.813877	2.064978	0	0	2.064978	0	0	0	2.064978	18.9287	0	0	18.9287	0.261981	0	0	0.261981	0.323347	2469.803
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14.30757	14.45041	2.916791	5.392807	37.06758	1.517904	0	14.52606	16.04397	14.45041	2.916791	5.392807	38.80398	150.6013	0	100.9146	251.5159	0.912142	0	0.053706	0.965848	12.80598	10302.17
50.11824	66.06638	9.564335	89.43504	215.184	2.726075	12.86311	43.17619	58.76537	66.06638	9.564335	89.43504	223.8311	561.2886	119.1346	1507.3	2187.723	5.520481	0.033386	0.108903	5.662771	49.17316	60401.68
39.72384	0	0	0	39.72384	42.2613	2.961648	0	45.22295	0	0	0	45.22295	74.11433	21.56267	0	95.677	3.590715	0.025711	0	3.616426	176.604	34093.57
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.192258	10.47477	1.459715	14.07096	32.1977	0.32793	1.603486	5.330551	7.261967	10.47477	1.459715	14.07096	33.26741	77.56563	17.04278	216.9547	311.5632	0.845628	0.005508	0.015317	0.866453	6.688399	9241.976
22.37651	0	0	0	22.37651	24.0483	1.425874	0	25.47417	0	0	0	25.47417	43.66995	10.38127	0	54.05122	1.939697	0.020135	0	1.959832	81.03273	18476.16
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
509.7178	259.893	545.6307	565.5722	1880.814	474.4322	0	142.0322	616.4644	259.893	545.6307	565.5722	1987.56	4451.35	0	1089.112	5540.462	0.804474	0	0.053325	0.857799	3.871942	9149.669
412.9871	479.3796	86.14453	353.9567	1332.468	119.0675	0	362.8294	481.8969	479.3796	86.14453	353.9567	1401.378	9690.758	0	3969.997	13660.76	50.40836	10	1.547429	51.95579	625.2131	554184
1.018763	0	0	0	1.018763	1.159794	0	0	1.159794	0	0	0	1.159794	32.219	0	0	32.219	0.526858	0	0	0.526858	0.499799	4966.909
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.014342	9.936585	1.929066	3.775677	24.65567	0.904803	0	9.190673	10.09548	9.936585	1.929066	3.775677	25.7368	89.7643	0	63.84891	153.6132	0.543702	0	0.041394	0.585096	7.633628	6240.902
0.487562	8.521435	1.290361	0.048233	10.34759	0.633105	0	0.058784	0.691889	8.521435	1.290361	0.048233	10.55192	7.585262	0	1.157497	8.742759	0.866712	0	0.000138	0.86685	2.219909	9246.214
1.012405	0	0	0	1.012405	1.152556	0	0	1.152556	0	0	0	1.152556	3.05674	0	0	3.05674	0.259954	0	0	0.259954	5.772571	2450.693
12.6714	5.875424	0.794662	11.19637	30.53786	1.486969	3.699966	9.9817	15.16863	5.875424	0.794662	11.19637	33.03509	21.44939	36.19673	168.0231	225.6692	1.633992	0.011617	0.018464	1.664073	5.261694	17749.76
6.610495	0	0	0	6.610495	4.075495	3.45005	0	7.525545	0	0	0	7.525545	26.37378	127.8657	0	154.2395	6.408499	0.306679	0	6.715178	152.2684	63347.63
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.192433	0	0	0	0.192433	8.248518	5.49671	0	13.74523	0	0	0	13.74523	29.23863	15.91116	0	45.14979	0	0	0	0	14.87826	1533.154
2.776262	2.452446	0.390895	2.692704	8.312307	0.449079	0.680967	2.191754	3.321801	2.452446	0.390895	2.692704	8.857845	7.075182	3.606587	37.05018	47.73195	0.237842	0.002146	0.003425	0.243412	0.739075	2596.348
1.834202	0	0	0	1.834202	0.969199	1.1189	0	2.088099	0	0	0	2.088099	4.681328	15.17015	0	19.85148	0.666255	0.021566	0	0.687822	12.12697	6488.567
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.073363	0	0	0	0.073363	4.674804	0.565396	0	5.2402	0	0	0	5.2402	18.32352	1.364771	0	19.68829	0	0	0	0	7.977436	705.4385
4.683794	1.459493	0.188549	1.046559	7.378396	0.25628	5.808316	0.57774	6.642336	1.459493	0.188549	1.046559	9.336938	3.160992	30.7624	11.15108	45.07447	0.121822	0.008661	0.000727	0.13121	0.694364	1399.548
0.070186	0	0	0	0.070186	0.045579	0.034322	0	0.079902	0	0	0	0.079902	0.255218	1.271074	0	1.526292	0.040338	0.003182	0	0.04352	0.826616	410.5484
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.608785	0	0	0	0.608785	37.04626	6.438354	0	43.48461	0	0	0	43.48461	107.5576	16.70114	0	124.2588	0	0	0	0	11.0611	2038.308
0.032833	0.026104	0.007413	0.027285	0.093636	0.008429	0	0.029624	0.038053	0.026104	0.007413	0.027285	0.098855	2.039423	0	1.677832	3.717255	0.023806	0	9.95E-05	0.023906	0.192209	254.9894
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.079612	0	0	0	0.079612	0.090633	0	0	0.090633	0	0	0	0.090633	0.121049	0	0	0.121049	0	0	0	0	1.41851	96.06705

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Compton 2045 General Plan Update
Compton, CA

Appendix E: Noise Analysis

Transportation Noise

Prepared by: MIG, Inc.

TRAFFIC NOISE MODEL (TNM) ROADWAY GEOMETRY INPUTS

Road/Segment	Travel Lanes		Road Width (Feet)		Vehicle Speed (MPH)
	Each Direction	Total	Each Direction	Paved Area	
Alameda St (east) between Rosecrans Ave & Compton Blvd	1	2	25	50	35
Alameda St (east) between Compton Blvd & Myrrh St	1	2	25	50	35
Alameda St (west) btwn Rosecrans Ave & Compton Blvd	2	4	29	58	40
Alameda St (west) btwn Compton Blvd & Alondra Blvd	2	4	32	64	40
Alondra Blvd east of Atlantic Ave	2	4	41	82	40
Alondra Blvd btwn Long Beach Blvd & Atlantic Ave	2	4	37	74	40
Alondra Blvd btwn Santa Fe Ave & Long Beach Blvd	2	4	41	82	40
Alondra Blvd btwn Alameda St & Santa Fe Ave	2	4	38	76	40
Alondra Blvd btwn Wilmington Ave & Willowbrook Ave	2	4	39	78	40
Alondra Blvd btwn Central Ave & Wilmington Ave	2	4	40	80	40
Alondra Blvd west of Central Ave	2	4	37	74	40
Atlantic Ave north of Rosecrans Ave	2	4	34	68	35
Atlantic Ave btwn Rosecrans Ave & Compton Blvd	2	4	35	70	35
Atlantic Ave btwn Compton Blvd & Alondra Blvd	2	4	35	70	35
Atlantic Ave south of Alondra Blvd	2	4	40	80	35
Central Ave north of Rosecrans Ave	2	4	38	76	45
Central Ave btwn Rosecrans Ave & Compton Blvd	2	4	37	74	40
Central Ave btwn Compton Blvd & Alondra Blvd	2	4	37	74	40
Central Ave south of Alondra Blvd	2	4	38	76	40
Compton Blvd east of Long Beach Blvd	2	4	38	76	40
Compton Blvd btwn Santa Fe Ave & Long Beach Blvd	2	4	41	82	40
Compton Blvd btwn Wilmington Ave & Willowbrook Ave	2	4	27	54	35
Compton Blvd btwn Central Ave & Wilmington Ave	2	4	28	56	35
Compton Blvd west of Central Ave	2	4	36	72	35
El Segundo Blvd west of Wilmington Ave	2	4	37	74	40
Greenleaf Blvd west of Wilmington Ave	1	2	24	48	35
Greenleaf Blvd btwn Wilmington Ave & Willowbrook Ave	1	2	25	50	35
Greenleaf Blvd btwn Santa Fe Ave & Long Beach Blvd	1	2	21	42	40
Greenleaf Blvd east of Long Beach Blvd	1	2	10	20	35
Long Beach Blvd north of Rosecrans Ave	2	4	35	70	35
Long Beach Blvd btwn Rosecrans Ave & Compton Blvd	2	4	35	70	35
Long Beach Blvd btwn Compton Blvd & Alondra Blvd	2	4	35	70	35
Long Beach Blvd btwn Alondra Blvd & Greenleaf Blvd	2	4	35	70	40
Manville St btwn Wilmington Ave & Alameda St	2	4	31	62	35

TRAFFIC NOISE MODEL (TNM) ROADWAY GEOMETRY INPUTS

Road/Segment	Travel Lanes		Road Width (Feet)		Vehicle Speed (MPH)
	Each Direction	Total	Each Direction	Paved Area	
Rosecrans Ave btwn Long Beach Blvd & Atlantic Ave	2	4	37	74	35/40
Rosecrans Ave btwn Santa Fe Ave & Long Beach Blvd	2	4	37	74	40
Rosecrans Ave btwn McDivitt Ave and Santa Fe Ave	2	4	37	74	40
Rosecrans Ave btwn McDivitt Ave and Willowbrook Ave	2	4	27	54	40
Rosecrans Ave btwn Wilmington Ave & Willowbrook Ave	2	4	37	74	40
Rosecrans Ave btwn Central Ave & Wilmington Ave	2	4	37	74	40
Rosecrans Ave west of Central Ave	3	6	40	80	40
Santa Fe Ave north of Rosecrans Ave	2	4	39	78	40
Santa Fe Ave btwn Rosecrans Ave & Compton Blvd	2	4	39	78	40
Santa Fe Ave btwn Compton Blvd and Alondra Blvd	2	4	37	74	40
Santa Fe Ave btwn Alondra Blvd & Greenleaf Blvd	2	4	40	80	40
Victoria St east of Wilmington Ave	2	4	32	64	40
Victoria St west of Wilmington Ave	2	4	42	84	40
Willowbrook (east) btwn Rosecrans Ave & Compton Blvd	1	2	19	38	30
Willowbrook (east) btwn Compton Blvd & Alondra Blvd	1	2	16	32	30
Willowbrook (west) btwn Rosecrans Ave & Compton Blvd	1	2	14	28	35
Willowbrook (west) btwn Compton Blvd & Alondra Blvd	1	2	14	28	35
Wilmington Ave north of Rosecrans Ave	2	4	39	78	35
Wilmington Ave btwn Rosecrans Ave & Compton Blvd	2	4	41	82	35
Wilmington Ave btwn Compton Blvd & Alondra Blvd	2	4	38	76	40
Wilmington Ave btwn Alondra Blvd & Greenleaf Blvd	2	4	26	52	35
Wilmington Ave south of Greenleaf Blvd	2	4	42	84	35
Wilmington Ave north of Victoria St	2	4	41	82	35

Existing (2022) Traffic Volume Data

Segment						7am-7pm	7-10pm	10pm-7am
	Existing ADT	% Autos	% Light Trucks	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night
Central Ave north of Rosecrans Ave	26,246	97.1%	0.8%	0.7%	1.4%	73%	11%	16%
Central Ave btwn Rosecrans Ave & Compton Blvd	22,545	96.8%	0.9%	0.8%	1.5%	73%	11%	16%
Central Ave btwn Compton Blvd & Alondra Blvd	24,370	95.4%	1.3%	1.1%	2.2%	73%	11%	16%
Central Ave south of Alondra Blvd	24,470	94.9%	1.4%	1.4%	2.3%	73%	11%	16%
Wilmington Ave north of Rosecrans Ave	21,520	97.9%	0.7%	0.6%	0.8%	73%	11%	16%
Wilmington Ave btwn Rosecrans Ave & Compton Blvd	22,855	97.3%	0.9%	0.8%	1.0%	73%	11%	16%
Wilmington Ave btwn Compton Blvd & Alondra Blvd	22,720	97.9%	0.7%	0.6%	0.8%	73%	11%	16%
Wilmington Ave btwn Alondra Blvd & Greenleaf Blvd	22,290	97.3%	0.8%	0.7%	1.2%	73%	11%	16%
Wilmington Ave south of Greenleaf Blvd	25,470	94.4%	1.2%	1.2%	3.2%	73%	11%	16%
Wilmington Ave north of Victoria St	26,390	77.2%	2.7%	4.6%	15.5%	73%	11%	16%
Willowbrook (west) btwn Rosecrans Ave & Compton Blvd	3,700	97.2%	0.9%	0.7%	1.2%	75%	10%	15%
Willowbrook (east) btwn Rosecrans Ave & Compton Blvd	2,990	97.2%	0.9%	0.7%	1.2%	75%	10%	15%
Willowbrook (west) btwn Compton Blvd & Alondra Blvd	3,200	97.0%	0.8%	0.8%	1.4%	75%	10%	15%
Willowbrook (east) btwn Compton Blvd & Alondra Blvd	2,400	97.0%	0.8%	0.8%	1.4%	75%	10%	15%
Alameda St (west) btwn Rosecrans Ave & Compton Blvd	16,900	95.0%	1.2%	1.1%	2.7%	75%	10%	15%
Alameda St (west) btwn Compton Blvd & Alondra Blvd	17,617	94.5%	1.3%	1.1%	3.1%	75%	10%	15%
Alameda St (east) between Rosecrans Ave & Compton Blvd	3,900	95.0%	1.2%	1.1%	2.7%	75%	10%	15%
Alameda St (east) between Compton Blvd & Myrrh St	4,100	98.5%	0.5%	0.2%	0.8%	75%	10%	15%
Santa Fe Ave north of Rosecrans Ave	16,670	96.7%	0.9%	1.0%	1.4%	75%	10%	15%
Santa Fe Ave btwn Rosecrans Ave & Compton Blvd	18,670	97.3%	0.7%	0.7%	1.3%	75%	10%	15%
Santa Fe Ave btwn Compton Blvd and Alondra Blvd	22,910	97.0%	0.8%	0.7%	1.5%	75%	10%	15%
Santa Fe Ave btwn Alondra Blvd & Greenleaf Blvd	22,440	95.7%	1.1%	1.0%	2.2%	75%	10%	15%
Long Beach Blvd north of Rosecrans Ave	18,340	98.4%	0.4%	0.3%	0.9%	75%	11%	15%
Long Beach Blvd btwn Rosecrans Ave & Compton Blvd	17,845	98.5%	0.4%	0.3%	0.8%	75%	11%	15%
Long Beach Blvd btwn Compton Blvd & Alondra Blvd	21,754	99.0%	0.3%	0.2%	0.5%	75%	11%	15%
Long Beach Blvd btwn Alondra Blvd & Greenleaf Blvd	18,625	98.3%	0.4%	0.2%	1.1%	75%	11%	15%
Atlantic Ave north of Rosecrans Ave	22,400	99.1%	0.3%	0.2%	0.4%	75%	11%	15%
Atlantic Ave btwn Rosecrans Ave & Compton Blvd	18,830	99.5%	0.2%	0.2%	0.1%	75%	11%	15%
Atlantic Ave btwn Compton Blvd & Alondra Blvd	23,790	99.5%	0.2%	0.1%	0.2%	75%	11%	15%
Atlantic Ave south of Alondra Blvd	22,350	99.2%	0.3%	0.2%	0.3%	75%	11%	15%
El Segundo Blvd west of Wilmington Ave	24,597	98.6%	0.5%	0.3%	0.6%	80%	8%	12%
Rosecrans Ave west of Central Ave	29,160	97.7%	0.7%	0.6%	1.0%	75%	10%	15%
Rosecrans Ave btwn Central Ave & Wilmington Ave	24,015	98.2%	0.6%	0.5%	0.7%	75%	10%	15%
Rosecrans Ave btwn Wilmington Ave & Willowbrook Ave	24,560	98.6%	0.5%	0.4%	0.5%	75%	10%	15%
Rosecrans Ave west of Santa Fe Ave	30,115	98.8%	0.4%	0.3%	0.5%	75%	10%	15%
Rosecrans Ave btwn Santa Fe Ave & Long Beach Blvd	22,285	98.7%	0.4%	0.4%	0.5%	75%	10%	15%
Rosecrans Ave btwn Long Beach Blvd & Atlantic Ave	23,650	98.5%	0.5%	0.4%	0.6%	75%	10%	15%
Compton Blvd west of Central Ave	20,970	96.6%	0.9%	0.9%	1.6%	80%	9%	11%
Compton Blvd btwn Central Ave & Wilmington Ave	18,827	98.0%	0.6%	0.5%	0.9%	80%	9%	11%
Compton Blvd btwn Wilmington Ave & Willowbrook Ave	22,710	97.8%	0.7%	0.6%	0.9%	80%	9%	11%
Compton Blvd btwn Santa Fe Ave & Long Beach Blvd	21,910	98.4%	0.5%	0.4%	0.7%	80%	9%	11%
Compton Blvd east of Long Beach Blvd	22,680	98.4%	0.5%	0.4%	0.7%	80%	9%	11%
Alondra Blvd west of Central Ave	18,890	97.6%	0.7%	0.7%	1.0%	81%	8%	11%
Alondra Blvd btwn Central Ave & Wilmington Ave	20,620	97.9%	0.6%	0.6%	0.9%	81%	8%	11%
Alondra Blvd btwn Wilmington Ave & Willowbrook Ave	21,047	98.0%	0.6%	0.5%	0.9%	81%	8%	11%
Alondra Blvd btwn Alameda St & Santa Fe Ave	22,420	98.2%	0.5%	0.4%	0.9%	81%	8%	11%
Alondra Blvd btwn Santa Fe Ave & Long Beach Blvd	21,140	97.8%	0.7%	0.5%	1.0%	81%	8%	11%
Alondra Blvd btwn Long Beach Blvd & Atlantic Ave	25,530	96.3%	0.9%	0.8%	2.0%	81%	8%	11%
Alondra Blvd east of Atlantic Ave	30,320	96.7%	0.9%	0.5%	1.9%	81%	8%	11%
Greenleaf Blvd west of Wilmington Ave	9,800	96.6%	1.1%	1.1%	1.2%	81%	8%	11%
Greenleaf Blvd btwn Wilmington Ave & Willowbrook Ave	17,890	93.0%	2.0%	2.0%	3.0%	81%	8%	11%
Greenleaf Blvd btwn Santa Fe Ave & Long Beach Blvd	9,600	99.2%	0.3%	0.3%	0.2%	81%	8%	11%
Greenleaf Blvd east of Long Beach Blvd	5,290	96.5%	0.6%	0.5%	2.4%	81%	8%	11%
Manville St btwn Wilmington Ave & Alameda St	7,550	54.6%	5.3%	8.8%	31.3%	81%	8%	11%
Victoria St west of Wilmington Ave	12,070	87.2%	3.4%	3.3%	6.1%	81%	8%	11%
Victoria St east of Wilmington Ave	10,160	54.6%	5.3%	8.8%	31.3%	81%	8%	11%

Source: Iteris 2024

2045 No Project Traffic Volume Data

Segment						7am-7pm	7-10pm	10pm-7am
	2045 NP ADT	% Autos	% Light Trucks	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night
Central Ave north of Rosecrans Ave	25,900	96.4%	1.0%	0.8%	1.8%	73%	11%	16%
Central Ave btwn Rosecrans Ave & Compton Blvd	22,300	96.2%	1.1%	0.9%	1.9%	73%	11%	16%
Central Ave btwn Compton Blvd & Alondra Blvd	24,100	95.1%	1.3%	1.2%	2.4%	73%	11%	16%
Central Ave south of Alondra Blvd	24,200	94.6%	1.6%	1.5%	2.3%	73%	11%	16%
Wilmington Ave north of Rosecrans Ave	21,300	97.9%	0.7%	0.5%	0.9%	73%	11%	16%
Wilmington Ave btwn Rosecrans Ave & Compton Blvd	22,600	97.4%	0.8%	0.7%	1.1%	73%	11%	16%
Wilmington Ave btwn Compton Blvd & Alondra Blvd	22,500	97.9%	0.6%	0.5%	0.9%	73%	11%	16%
Wilmington Ave btwn Alondra Blvd & Greenleaf Blvd	22,000	97.7%	0.6%	0.6%	1.1%	73%	11%	16%
Wilmington Ave south of Greenleaf Blvd	25,200	92.5%	1.2%	1.1%	5.2%	73%	11%	16%
Wilmington Ave north of Victoria St	27,400	78.1%	2.3%	2.7%	16.8%	73%	11%	16%
Willowbrook (west) btwn Rosecrans Ave & Compton Blvd	3,700	96.4%	1.0%	0.7%	1.8%	75%	10%	15%
Willowbrook (east) btwn Rosecrans Ave & Compton Blvd	3,000	100.0%	0.0%	0.0%	0.0%	75%	10%	15%
Willowbrook (west) btwn Compton Blvd & Alondra Blvd	3,400	96.2%	0.9%	0.8%	2.2%	75%	10%	15%
Willowbrook (east) btwn Compton Blvd & Alondra Blvd	2,400	100.0%	0.0%	0.0%	0.0%	75%	10%	15%
Alameda St (west) btwn Rosecrans Ave & Compton Blvd	18,900	94.7%	1.1%	0.9%	3.3%	75%	10%	15%
Alameda St (west) btwn Compton Blvd & Alondra Blvd	20,100	93.5%	1.2%	1.0%	4.3%	75%	10%	15%
Alameda St (east) between Rosecrans Ave & Compton Blvd	3,900	98.1%	0.4%	0.2%	1.3%	75%	10%	15%
Alameda St (east) between Compton Blvd & Myrrh St	4,100	98.1%	0.4%	0.2%	1.3%	75%	10%	15%
Santa Fe Ave north of Rosecrans Ave	16,500	96.5%	0.9%	0.8%	1.8%	75%	10%	15%
Santa Fe Ave btwn Rosecrans Ave & Compton Blvd	18,500	97.0%	0.8%	0.7%	1.5%	75%	10%	15%
Santa Fe Ave btwn Compton Blvd and Alondra Blvd	22,700	96.6%	0.8%	0.7%	1.9%	75%	10%	15%
Santa Fe Ave btwn Alondra Blvd & Greenleaf Blvd	22,200	93.5%	1.2%	1.2%	4.1%	75%	10%	15%
Long Beach Blvd north of Rosecrans Ave	18,100	97.9%	0.4%	0.3%	1.4%	75%	11%	15%
Long Beach Blvd btwn Rosecrans Ave & Compton Blvd	17,700	98.1%	0.4%	0.3%	1.2%	75%	11%	15%
Long Beach Blvd btwn Compton Blvd & Alondra Blvd	21,500	98.6%	0.3%	0.2%	0.9%	75%	11%	15%
Long Beach Blvd btwn Alondra Blvd & Greenleaf Blvd	18,400	97.7%	0.4%	0.3%	1.6%	75%	11%	15%
Atlantic Ave north of Rosecrans Ave	22,100	99.0%	0.3%	0.2%	0.4%	75%	11%	15%
Atlantic Ave btwn Rosecrans Ave & Compton Blvd	18,600	99.4%	0.3%	0.1%	0.2%	75%	11%	15%
Atlantic Ave btwn Compton Blvd & Alondra Blvd	23,500	99.4%	0.3%	0.1%	0.2%	75%	11%	15%
Atlantic Ave south of Alondra Blvd	23,600	98.7%	0.4%	0.2%	0.6%	75%	11%	15%
El Segundo Blvd west of Wilmington Ave	24,300	97.6%	0.7%	0.6%	1.0%	80%	8%	12%
Rosecrans Ave west of Central Ave	28,800	97.5%	0.7%	0.6%	1.3%	75%	10%	15%
Rosecrans Ave btwn Central Ave & Wilmington Ave	24,400	98.0%	0.6%	0.5%	1.0%	75%	10%	15%
Rosecrans Ave btwn Wilmington Ave & Willowbrook Ave	25,500	98.4%	0.5%	0.4%	0.8%	75%	10%	15%
Rosecrans Ave west of Santa Fe Ave	29,800	98.6%	0.4%	0.3%	0.7%	75%	10%	15%
Rosecrans Ave btwn Santa Fe Ave & Long Beach Blvd	22,000	98.5%	0.4%	0.3%	0.8%	75%	10%	15%
Rosecrans Ave btwn Long Beach Blvd & Atlantic Ave	23,400	98.2%	0.5%	0.4%	0.9%	75%	10%	15%
Compton Blvd west of Central Ave	20,700	97.0%	0.8%	0.8%	1.4%	80%	9%	11%
Compton Blvd btwn Central Ave & Wilmington Ave	18,600	97.7%	0.7%	0.5%	1.1%	80%	9%	11%
Compton Blvd btwn Wilmington Ave & Willowbrook Ave	22,500	98.0%	0.6%	0.5%	1.0%	80%	9%	11%
Compton Blvd btwn Santa Fe Ave & Long Beach Blvd	22,100	98.5%	0.4%	0.3%	0.7%	80%	9%	11%
Compton Blvd east of Long Beach Blvd	22,900	98.4%	0.5%	0.4%	0.7%	80%	9%	11%
Alondra Blvd west of Central Ave	19,600	98.1%	0.6%	0.6%	0.8%	81%	8%	11%
Alondra Blvd btwn Central Ave & Wilmington Ave	21,500	97.8%	0.7%	0.6%	1.0%	81%	8%	11%
Alondra Blvd btwn Wilmington Ave & Willowbrook Ave	22,000	98.2%	0.5%	0.4%	0.8%	81%	8%	11%
Alondra Blvd btwn Alameda St & Santa Fe Ave	22,500	98.3%	0.5%	0.4%	0.8%	81%	8%	11%
Alondra Blvd btwn Santa Fe Ave & Long Beach Blvd	20,900	97.7%	0.7%	0.5%	1.1%	81%	8%	11%
Alondra Blvd btwn Long Beach Blvd & Atlantic Ave	28,700	96.2%	0.9%	0.7%	2.2%	81%	8%	11%
Alondra Blvd east of Atlantic Ave	30,000	96.4%	0.8%	0.6%	2.2%	81%	8%	11%
Greenleaf Blvd west of Wilmington Ave	11,200	94.0%	1.5%	1.4%	3.1%	81%	8%	11%
Greenleaf Blvd btwn Wilmington Ave & Willowbrook Ave	19,000	92.6%	2.0%	1.9%	3.6%	81%	8%	11%
Greenleaf Blvd btwn Santa Fe Ave & Long Beach Blvd	12,200	99.1%	0.4%	0.2%	0.4%	81%	8%	11%
Greenleaf Blvd east of Long Beach Blvd	5,300	99.1%	0.4%	0.2%	0.4%	81%	8%	11%
Manville St btwn Wilmington Ave & Alameda St	7,500	45.2%	5.9%	6.8%	42.1%	81%	8%	11%
Victoria St west of Wilmington Ave	20,700	84.2%	3.6%	3.3%	8.9%	81%	8%	11%
Victoria St east of Wilmington Ave	11,600	45.2%	5.9%	6.8%	42.1%	81%	8%	11%

Source: Iteris 2024

2045 with General Plan Update Traffic Volume Data

Segment						7am-7pm	7-10pm	10pm-7am
	2045 WP ADT	% Autos	% Light Trucks	% Med Trucks	% Heavy Trucks	% Daytime	% Evening	% Night
Central Ave north of Rosecrans Ave	27,400	96.8%	0.9%	0.8%	1.6%	73%	11%	16%
Central Ave btwn Rosecrans Ave & Compton Blvd	23,600	96.7%	0.9%	0.8%	1.6%	73%	11%	16%
Central Ave btwn Compton Blvd & Alondra Blvd	25,500	95.7%	1.2%	1.1%	2.0%	73%	11%	16%
Central Ave south of Alondra Blvd	25,600	95.4%	1.4%	1.3%	1.9%	73%	11%	16%
Wilmington Ave north of Rosecrans Ave	21,800	97.9%	0.7%	0.6%	0.9%	73%	11%	16%
Wilmington Ave btwn Rosecrans Ave & Compton Blvd	23,900	97.2%	0.9%	0.7%	1.1%	73%	11%	16%
Wilmington Ave btwn Compton Blvd & Alondra Blvd	23,700	98.0%	0.6%	0.5%	0.8%	73%	11%	16%
Wilmington Ave btwn Alondra Blvd & Greenleaf Blvd	23,300	97.7%	0.6%	0.6%	1.1%	73%	11%	16%
Wilmington Ave south of Greenleaf Blvd	26,400	93.3%	1.0%	1.0%	4.6%	73%	11%	16%
Wilmington Ave north of Victoria St	28,700	81.1%	2.2%	2.4%	14.3%	73%	11%	16%
Willowbrook (west) btwn Rosecrans Ave & Compton Blvd	4,100	96.6%	0.9%	0.7%	1.8%	75%	10%	15%
Willowbrook (east) btwn Rosecrans Ave & Compton Blvd	3,100	100.0%	0.0%	0.0%	0.0%	75%	10%	15%
Willowbrook (west) btwn Compton Blvd & Alondra Blvd	5,400	97.6%	0.6%	0.5%	1.3%	75%	10%	15%
Willowbrook (east) btwn Compton Blvd & Alondra Blvd	2,600	100.0%	0.0%	0.0%	0.0%	75%	10%	15%
Alameda St (west) btwn Rosecrans Ave & Compton Blvd	19,700	95.0%	1.0%	0.9%	3.1%	75%	10%	15%
Alameda St (west) btwn Compton Blvd & Alondra Blvd	20,700	93.6%	1.2%	1.0%	4.1%	75%	10%	15%
Alameda St (east) between Rosecrans Ave & Compton Blvd	4,100	98.4%	0.3%	0.2%	1.1%	75%	10%	15%
Alameda St (east) between Compton Blvd & Myrrh St	4,300	98.4%	0.3%	0.2%	1.1%	75%	10%	15%
Santa Fe Ave north of Rosecrans Ave	17,400	96.8%	0.9%	0.8%	1.6%	75%	10%	15%
Santa Fe Ave btwn Rosecrans Ave & Compton Blvd	19,500	97.1%	0.8%	0.7%	1.5%	75%	10%	15%
Santa Fe Ave btwn Compton Blvd and Alondra Blvd	23,900	97.0%	0.7%	0.6%	1.7%	75%	10%	15%
Santa Fe Ave btwn Alondra Blvd & Greenleaf Blvd	22,800	94.6%	1.0%	1.0%	3.4%	75%	10%	15%
Long Beach Blvd north of Rosecrans Ave	19,200	98.0%	0.4%	0.3%	1.3%	75%	11%	15%
Long Beach Blvd btwn Rosecrans Ave & Compton Blvd	18,700	98.2%	0.4%	0.3%	1.2%	75%	11%	15%
Long Beach Blvd btwn Compton Blvd & Alondra Blvd	22,100	98.6%	0.3%	0.2%	0.9%	75%	11%	15%
Long Beach Blvd btwn Alondra Blvd & Greenleaf Blvd	19,500	97.6%	0.5%	0.3%	1.6%	75%	11%	15%
Atlantic Ave north of Rosecrans Ave	23,400	99.0%	0.4%	0.2%	0.4%	75%	11%	15%
Atlantic Ave btwn Rosecrans Ave & Compton Blvd	19,700	99.3%	0.3%	0.2%	0.2%	75%	11%	15%
Atlantic Ave btwn Compton Blvd & Alondra Blvd	24,900	99.3%	0.3%	0.2%	0.3%	75%	11%	15%
Atlantic Ave south of Alondra Blvd	24,200	98.7%	0.4%	0.2%	0.6%	75%	11%	15%
El Segundo Blvd west of Wilmington Ave	25,700	97.5%	0.8%	0.7%	1.1%	80%	8%	12%
Rosecrans Ave west of Central Ave	31,100	97.5%	0.7%	0.6%	1.2%	75%	10%	15%
Rosecrans Ave btwn Central Ave & Wilmington Ave	26,300	97.9%	0.7%	0.5%	1.0%	75%	10%	15%
Rosecrans Ave btwn Wilmington Ave & Willowbrook Ave	26,800	98.6%	0.4%	0.3%	0.7%	75%	10%	15%
Rosecrans Ave west of Santa Fe Ave	30,800	98.8%	0.4%	0.3%	0.6%	75%	10%	15%
Rosecrans Ave btwn Santa Fe Ave & Long Beach Blvd	22,900	98.6%	0.4%	0.3%	0.7%	75%	10%	15%
Rosecrans Ave btwn Long Beach Blvd & Atlantic Ave	24,100	98.4%	0.5%	0.3%	0.8%	75%	10%	15%
Compton Blvd west of Central Ave	21,500	97.3%	0.7%	0.7%	1.3%	80%	9%	11%
Compton Blvd btwn Central Ave & Wilmington Ave	20,100	98.0%	0.5%	0.5%	0.9%	80%	9%	11%
Compton Blvd btwn Wilmington Ave & Willowbrook Ave	25,000	98.1%	0.6%	0.5%	0.9%	80%	9%	11%
Compton Blvd btwn Santa Fe Ave & Long Beach Blvd	23,600	98.5%	0.4%	0.3%	0.7%	80%	9%	11%
Compton Blvd east of Long Beach Blvd	23,700	98.4%	0.5%	0.4%	0.7%	80%	9%	11%
Alondra Blvd west of Central Ave	20,200	98.3%	0.6%	0.5%	0.6%	81%	8%	11%
Alondra Blvd btwn Central Ave & Wilmington Ave	22,700	97.6%	0.7%	0.6%	1.0%	81%	8%	11%
Alondra Blvd btwn Wilmington Ave & Willowbrook Ave	24,100	98.1%	0.6%	0.5%	0.9%	81%	8%	11%
Alondra Blvd btwn Alameda St & Santa Fe Ave	23,100	98.4%	0.5%	0.4%	0.7%	81%	8%	11%
Alondra Blvd btwn Santa Fe Ave & Long Beach Blvd	22,000	98.0%	0.6%	0.5%	0.9%	81%	8%	11%
Alondra Blvd btwn Long Beach Blvd & Atlantic Ave	30,100	96.3%	0.9%	0.7%	2.1%	81%	8%	11%
Alondra Blvd east of Atlantic Ave	31,700	96.5%	0.8%	0.7%	2.1%	81%	8%	11%
Greenleaf Blvd west of Wilmington Ave	12,000	95.5%	1.1%	1.0%	2.3%	81%	8%	11%
Greenleaf Blvd btwn Wilmington Ave & Willowbrook Ave	21,100	94.8%	1.3%	1.3%	2.5%	81%	8%	11%
Greenleaf Blvd btwn Santa Fe Ave & Long Beach Blvd	12,900	99.1%	0.4%	0.2%	0.3%	81%	8%	11%
Greenleaf Blvd east of Long Beach Blvd	5,600	99.1%	0.4%	0.2%	0.3%	81%	8%	11%
Manville St btwn Wilmington Ave & Alameda St	7,900	45.6%	6.2%	6.8%	41.5%	81%	8%	11%
Victoria St west of Wilmington Ave	22,500	86.0%	3.1%	3.1%	7.7%	81%	8%	11%
Victoria St east of Wilmington Ave	10,900	45.6%	6.2%	6.8%	41.5%	81%	8%	11%

Source: Iteris 2024

Existing (2022) Traffic Noise Contour Data

Road/Segment	Modeled Average Daily Traffic (ADT) Volume	Modeled CNEL 50 Feet from Road Centerline	Distance from Modeled Road Center to Noise Contour Level			
			60 CNEL	65 CNEL	70 CNEL	75 CNEL
Alameda St (east) between Rosecrans Ave & Compton Blvd	3,900	60.9	62	19	6	2
Alameda St (east) between Compton Blvd & Myrrh St	4,100	62.4	87	27	9	3
Alameda St (west) btwn Rosecrans Ave & Compton Blvd	16,900	68.2	330	104	33	10
Alameda St (west) btwn Compton Blvd & Alondra Blvd	17,617	67.9	308	97	31	10
Alondra Blvd east of Atlantic Ave	30,320	69.0	397	126	40	13
Alondra Blvd btwn Long Beach Blvd & Atlantic Ave	25,530	68.2	330	104	33	10
Alondra Blvd btwn Santa Fe Ave & Long Beach Blvd	21,140	67.5	281	89	28	9
Alondra Blvd btwn Alameda St & Santa Fe Ave	22,420	67.4	275	87	27	9
Alondra Blvd btwn Wilmington Ave & Willowbrook Ave	21,047	67.4	275	87	27	9
Alondra Blvd btwn Central Ave & Wilmington Ave	20,620	67.3	269	85	27	8
Alondra Blvd west of Central Ave	18,890	66.3	213	67	21	7
Atlantic Ave north of Rosecrans Ave	22,400	65.6	182	57	18	6
Atlantic Ave btwn Rosecrans Ave & Compton Blvd	18,830	65.3	169	54	17	5
Atlantic Ave btwn Compton Blvd & Alondra Blvd	23,790	66.6	229	72	23	7
Atlantic Ave south of Alondra Blvd	22,350	66.1	204	64	20	6
Central Ave north of Rosecrans Ave	26,246	70.0	500	158	50	16
Central Ave btwn Rosecrans Ave & Compton Blvd	22,545	68.7	371	117	37	12
Central Ave btwn Compton Blvd & Alondra Blvd	24,370	68.9	388	123	39	12
Central Ave south of Alondra Blvd	24,470	69.3	426	135	43	13
Compton Blvd east of Long Beach Blvd	22,680	67.2	262	83	26	8
Compton Blvd btwn Santa Fe Ave & Long Beach Blvd	21,910	67.9	308	97	31	10
Compton Blvd btwn Wilmington Ave & Willowbrook Ave	22,710	66.0	199	63	20	6
Compton Blvd btwn Central Ave & Wilmington Ave	18,827	64.9	155	49	15	5
Compton Blvd west of Central Ave	20,970	66.0	199	63	20	6
El Segundo Blvd west of Wilmington Ave	24,597	68.2	330	104	33	10
Greenleaf Blvd west of Wilmington Ave	9,800	62.5	89	28	9	3
Greenleaf Blvd btwn Wilmington Ave & Willowbrook Ave	17,890	66.1	204	64	20	6
Greenleaf Blvd btwn Santa Fe Ave & Long Beach Blvd	9,600	63.2	104	33	10	3
Greenleaf Blvd east of Long Beach Blvd	5,290	60.3	54	17	5	2
Long Beach Blvd north of Rosecrans Ave	18,340	65.6	182	57	18	6
Long Beach Blvd btwn Rosecrans Ave & Compton Blvd	17,845	65.3	169	54	17	5
Long Beach Blvd btwn Compton Blvd & Alondra Blvd	21,754	66.0	199	63	20	6
Long Beach Blvd btwn Alondra Blvd & Greenleaf Blvd	18,625	67.5	281	89	28	9
Manville St btwn Wilmington Ave & Alameda St	7,550	68.6	362	115	36	11
Rosecrans Ave btwn Long Beach Blvd & Atlantic Ave	23,650	68.1	323	102	32	10
Rosecrans Ave btwn Santa Fe Ave & Long Beach Blvd	22,285	67.8	301	95	30	10
Rosecrans Ave btwn McDivitt Ave and Santa Fe Ave	30,115	68.3	338	107	34	11
Rosecrans Ave btwn McDivitt Ave and Willowbrook Ave	30,115	52.7	9	3	1	0
Rosecrans Ave btwn Wilmington Ave & Willowbrook Ave	24,560	68.4	346	109	35	11
Rosecrans Ave btwn Central Ave & Wilmington Ave	24,015	68.2	330	104	33	10
Rosecrans Ave west of Central Ave	29,160	69.7	467	148	47	15

Santa Fe Ave north of Rosecrans Ave	16,670	66.9	245	77	24	8
Santa Fe Ave btwn Rosecrans Ave & Compton Blvd	18,670	67.4	275	87	27	9
Santa Fe Ave btwn Compton Blvd and Alondra Blvd	22,910	67.7	294	93	29	9
Santa Fe Ave btwn Alondra Blvd & Greenleaf Blvd	22,440	68.8	379	120	38	12
Victoria St east of Wilmington Ave	10,160	71.0	629	199	63	20
Victoria St west of Wilmington Ave	12,070	66.6	229	72	23	7
Willowbrook (east) btwn Rosecrans Ave & Compton Blvd	2,990	57.2	26	8	3	1
Willowbrook (east) btwn Compton Blvd & Alondra Blvd	2,400	56.5	22	7	2	1
Willowbrook (west) btwn Rosecrans Ave & Compton Blvd	3,700	58.7	37	12	4	1
Willowbrook (west) btwn Compton Blvd & Alondra Blvd	3,200	58.2	33	10	3	1
Wilmington Ave north of Rosecrans Ave	21,520	66.2	208	66	21	7
Wilmington Ave btwn Rosecrans Ave & Compton Blvd	22,855	67.0	251	79	25	8
Wilmington Ave btwn Compton Blvd & Alondra Blvd	22,720	68.9	388	123	39	12
Wilmington Ave btwn Alondra Blvd & Greenleaf Blvd	22,290	66.8	239	76	24	8
Wilmington Ave south of Greenleaf Blvd	25,470	67.9	308	97	31	10
Wilmington Ave north of Victoria St	26,390	72.9	975	308	97	31
SR91 - East City Limit to Long Beach Blvd	204,250	69.0	1,589	502	159	50
SR91 - Long Beach Blvd to West City Limit	204,250	79.2	16,635	5,261	1,664	526
I710 - North City Limit to Alondra Blvd	224,000	78.4	13,837	4,376	1,384	438
I710 - Alondra Blvd to South City Limit	224,000	70.0	2,000	632	200	63

Table Notes:

A. ADT is average daily traffic volume. ADT is bi-directional for all road segments except SR-91 and I-705. Local traffic volumes obtained from the travel demand modeling conducted for the Project (Iteris, 2024). Highway traffic volumes obtained from Caltrans.

B. CNEL is estimated at 50 feet from the road center for all road segments except SR 91 and I-705, which is estimated at 200 feet from the road center.

2045 No Project Traffic Noise Contours

Road/Segment	Modeled Average Daily Traffic (ADT) Volume	Modeled CNEL 50 Feet from Road Centerline	Distance from Modeled Road Center to Noise Contour Level			
			60 CNEL	65 CNEL	70 CNEL	75 CNEL
Alameda St (east) between Rosecrans Ave & Compton Blvd	3,900	60.4	55	17	5	2
Alameda St (east) between Compton Blvd & Myrrh St	4,100	63.0	100	32	10	3
Alameda St (west) btwn Rosecrans Ave & Compton Blvd	18,900	68.8	379	120	38	12
Alameda St (west) btwn Compton Blvd & Alondra Blvd	20,100	68.9	388	123	39	12
Alondra Blvd east of Atlantic Ave	30,000	69.1	406	129	41	13
Alondra Blvd btwn Long Beach Blvd & Atlantic Ave	28,700	68.7	371	117	37	12
Alondra Blvd btwn Santa Fe Ave & Long Beach Blvd	20,900	67.5	281	89	28	9
Alondra Blvd btwn Alameda St & Santa Fe Ave	22,500	67.4	275	87	27	9
Alondra Blvd btwn Wilmington Ave & Willowbrook Ave	22,000	67.5	281	89	28	9
Alondra Blvd btwn Central Ave & Wilmington Ave	21,500	67.5	281	89	28	9
Alondra Blvd west of Central Ave	19,600	66.3	213	67	21	7
Atlantic Ave north of Rosecrans Ave	22,100	65.5	177	56	18	6
Atlantic Ave btwn Rosecrans Ave & Compton Blvd	18,600	65.3	169	54	17	5
Atlantic Ave btwn Compton Blvd & Alondra Blvd	23,500	66.5	223	71	22	7
Atlantic Ave south of Alondra Blvd	23,600	66.5	223	71	22	7
Central Ave north of Rosecrans Ave	25,900	70.2	524	166	52	17
Central Ave btwn Rosecrans Ave & Compton Blvd	22,300	68.8	379	120	38	12
Central Ave btwn Compton Blvd & Alondra Blvd	24,100	68.9	388	123	39	12
Central Ave south of Alondra Blvd	24,200	69.3	426	135	43	13
Compton Blvd east of Long Beach Blvd	22,900	67.3	269	85	27	8
Compton Blvd btwn Santa Fe Ave & Long Beach Blvd	22,100	67.9	308	97	31	10
Compton Blvd btwn Wilmington Ave & Willowbrook Ave	22,500	66.0	199	63	20	6
Compton Blvd btwn Central Ave & Wilmington Ave	18,600	65.0	158	50	16	5
Compton Blvd west of Central Ave	20,700	65.8	190	60	19	6
El Segundo Blvd west of Wilmington Ave	24,300	68.4	346	109	35	11
Greenleaf Blvd west of Wilmington Ave	11,200	64.1	129	41	13	4
Greenleaf Blvd btwn Wilmington Ave & Willowbrook Ave	19,000	66.6	229	72	23	7
Greenleaf Blvd btwn Santa Fe Ave & Long Beach Blvd	12,200	64.3	135	43	13	4
Greenleaf Blvd east of Long Beach Blvd	5,300	59.2	42	13	4	1
Long Beach Blvd north of Rosecrans Ave	18,100	65.9	195	62	19	6
Long Beach Blvd btwn Rosecrans Ave & Compton Blvd	17,700	65.5	177	56	18	6
Long Beach Blvd btwn Compton Blvd & Alondra Blvd	21,500	66.2	208	66	21	7
Long Beach Blvd btwn Alondra Blvd & Greenleaf Blvd	18,400	67.7	294	93	29	9
Manville St btwn Wilmington Ave & Alameda St	7,500	69.5	446	141	45	14
Rosecrans Ave btwn Long Beach Blvd & Atlantic Ave	23,400	68.2	330	104	33	10
Rosecrans Ave btwn Santa Fe Ave & Long Beach Blvd	22,000	67.9	308	97	31	10
Rosecrans Ave btwn McDivitt Ave and Santa Fe Ave	29,800	68.3	338	107	34	11
Rosecrans Ave btwn McDivitt Ave and Willowbrook Ave	29,800	52.8	10	3	1	0
Rosecrans Ave btwn Wilmington Ave & Willowbrook Ave	25,500	68.8	379	120	38	12
Rosecrans Ave btwn Central Ave & Wilmington Ave	24,400	68.4	346	109	35	11

2045 No Project Traffic Noise Contours

Road/Segment	Modeled Average Daily Traffic (ADT) Volume	Modeled CNEL 50 Feet from Road Centerline	Distance from Modeled Road Center to Noise Contour Level			
			60 CNEL	65 CNEL	70 CNEL	75 CNEL
Rosecrans Ave west of Central Ave	28,800	69.8	477	151	48	15
Santa Fe Ave north of Rosecrans Ave	16,500	67.0	251	79	25	8
Santa Fe Ave btwn Rosecrans Ave & Compton Blvd	18,500	67.4	275	87	27	9
Santa Fe Ave btwn Compton Blvd and Alondra Blvd	22,700	67.8	301	95	30	10
Santa Fe Ave btwn Alondra Blvd & Greenleaf Blvd	22,200	69.5	446	141	45	14
Victoria St east of Wilmington Ave	11,600	72.4	869	275	87	27
Victoria St west of Wilmington Ave	20,700	69.6	456	144	46	14
Willowbrook (east) btwn Rosecrans Ave & Compton Blvd	3,000	56.4	22	7	2	1
Willowbrook (east) btwn Compton Blvd & Alondra Blvd	2,400	55.5	18	6	2	1
Willowbrook (west) btwn Rosecrans Ave & Compton Blvd	3,700	59.0	40	13	4	1
Willowbrook (west) btwn Compton Blvd & Alondra Blvd	3,400	58.8	38	12	4	1
Wilmington Ave north of Rosecrans Ave	21,300	66.2	208	66	21	7
Wilmington Ave btwn Rosecrans Ave & Compton Blvd	22,600	67.0	251	79	25	8
Wilmington Ave btwn Compton Blvd & Alondra Blvd	22,500	68.8	379	120	38	12
Wilmington Ave btwn Alondra Blvd & Greenleaf Blvd	22,000	66.7	234	74	23	7
Wilmington Ave south of Greenleaf Blvd	25,200	68.7	371	117	37	12
Wilmington Ave north of Victoria St	27,400	73.1	1,021	323	102	32
SR91 - East City Limit to Long Beach Blvd	224,787	58.6	145	46	14	5
SR91 - Long Beach Blvd to West City Limit	224,787	68.8	1,517	480	152	48
I710 - North City Limit to Alondra Blvd	224,000	67.9	1,233	390	123	39
I710 - Alondra Blvd to South City Limit	224,000	59.0	159	50	16	5

Notes

A. ADT is average daily traffic volume. ADT is bi-directional for all road segments except SR-91 and I-705. Local traffic volumes obtained from the travel demand modeling conducted for the Project (Iteris, 2024). Highway traffic volumes obtained from Caltrans.

B. CNEL is estimated at 50 feet from the road center for all road segments except SR 91 and I-705, which is estimated at 200 feet from the road

2045 with General Plan Update Traffic Noise Contour Data

Road/Segment	Modeled Average Daily Traffic (ADT) Volume	Modeled CNEL 50 Feet from Road Centerline	Distance from Modeled Road Center to Noise Contour Level			
			60 CNEL	65 CNEL	70 CNEL	75 CNEL
Alameda St (east) between Rosecrans Ave & Compton Blvd	4,100	60.5	56	18	6	2
Alameda St (east) between Compton Blvd & Myrrh St	4,300	63.1	102	32	10	3
Alameda St (west) btwn Rosecrans Ave & Compton Blvd	19,700	68.9	388	123	39	12
Alameda St (west) btwn Compton Blvd & Alondra Blvd	20,700	69	397	126	40	13
Alondra Blvd east of Atlantic Ave	31,700	69.3	426	135	43	13
Alondra Blvd btwn Long Beach Blvd & Atlantic Ave	30,100	68.9	388	123	39	12
Alondra Blvd btwn Santa Fe Ave & Long Beach Blvd	22,000	67.6	288	91	29	9
Alondra Blvd btwn Alameda St & Santa Fe Ave	23,100	67.4	275	87	27	9
Alondra Blvd btwn Wilmington Ave & Willowbrook Ave	24,100	68	315	100	32	10
Alondra Blvd btwn Central Ave & Wilmington Ave	22,700	67.7	294	93	29	9
Alondra Blvd west of Central Ave	20,200	66.3	213	67	21	7
Atlantic Ave north of Rosecrans Ave	23,400	65.8	190	60	19	6
Atlantic Ave btwn Rosecrans Ave & Compton Blvd	19,700	65.6	182	57	18	6
Atlantic Ave btwn Compton Blvd & Alondra Blvd	24,900	66.9	245	77	24	8
Atlantic Ave south of Alondra Blvd	24,200	66.6	229	72	23	7
Central Ave north of Rosecrans Ave	27,400	70.3	536	169	54	17
Central Ave btwn Rosecrans Ave & Compton Blvd	23,600	68.9	388	123	39	12
Central Ave btwn Compton Blvd & Alondra Blvd	25,500	69	397	126	40	13
Central Ave south of Alondra Blvd	25,600	69.3	426	135	43	13
Compton Blvd east of Long Beach Blvd	23,700	67.4	275	87	27	9
Compton Blvd btwn Santa Fe Ave & Long Beach Blvd	23,600	68.2	330	104	33	10
Compton Blvd btwn Wilmington Ave & Willowbrook Ave	25,000	66.3	213	67	21	7
Compton Blvd btwn Central Ave & Wilmington Ave	20,100	65.2	166	52	17	5
Compton Blvd west of Central Ave	21,500	65.9	195	62	19	6
El Segundo Blvd west of Wilmington Ave	25,700	68.6	362	115	36	11
Greenleaf Blvd west of Wilmington Ave	12,000	63.9	123	39	12	4
Greenleaf Blvd btwn Wilmington Ave & Willowbrook Ave	21,100	66.4	218	69	22	7
Greenleaf Blvd btwn Santa Fe Ave & Long Beach Blvd	12,900	64.5	141	45	14	4
Greenleaf Blvd east of Long Beach Blvd	5,600	59.3	43	13	4	1
Long Beach Blvd north of Rosecrans Ave	19,200	66.1	204	64	20	6
Long Beach Blvd btwn Rosecrans Ave & Compton Blvd	18,700	65.7	186	59	19	6
Long Beach Blvd btwn Compton Blvd & Alondra Blvd	22,100	66.3	213	67	21	7
Long Beach Blvd btwn Alondra Blvd & Greenleaf Blvd	19,500	68	315	100	32	10
Manville St btwn Wilmington Ave & Alameda St	7,900	69.7	467	148	47	15
Rosecrans Ave btwn Long Beach Blvd & Atlantic Ave	24,100	68.3	338	107	34	11
Rosecrans Ave btwn Santa Fe Ave & Long Beach Blvd	22,900	68	315	100	32	10
Rosecrans Ave btwn McDivitt Ave and Santa Fe Ave	30,800	68.4	692	219	69	22
Rosecrans Ave btwn McDivitt Ave and Willowbrook Ave	30,800	52.9	19	6	2	1
Rosecrans Ave btwn Wilmington Ave & Willowbrook Ave	26,800	68.8	759	240	76	24
Rosecrans Ave btwn Central Ave & Wilmington Ave	26,300	68.7	741	234	74	23

Rosecrans Ave west of Central Ave	31,100	70.1	1,023	324	102	32
Santa Fe Ave north of Rosecrans Ave	17,400	67.2	525	166	52	17
Santa Fe Ave btwn Rosecrans Ave & Compton Blvd	19,500	67.7	589	186	59	19
Santa Fe Ave btwn Compton Blvd and Alondra Blvd	23,900	67.9	617	195	62	19
Santa Fe Ave btwn Alondra Blvd & Greenleaf Blvd	22,800	69.3	851	269	85	27
Victoria St east of Wilmington Ave	10,900	72.1	1,622	513	162	51
Victoria St west of Wilmington Ave	22,500	69.6	912	288	91	29
Willowbrook (east) btwn Rosecrans Ave & Compton Blvd	3,100	56.5	45	14	4	1
Willowbrook (east) btwn Compton Blvd & Alondra Blvd	2,600	55.8	38	12	4	1
Willowbrook (west) btwn Rosecrans Ave & Compton Blvd	4,100	59.4	87	28	9	3
Willowbrook (west) btwn Compton Blvd & Alondra Blvd	5,400	60.2	105	33	10	3
Wilmington Ave north of Rosecrans Ave	21,800	66.3	427	135	43	13
Wilmington Ave btwn Rosecrans Ave & Compton Blvd	23,900	67.2	525	166	52	17
Wilmington Ave btwn Compton Blvd & Alondra Blvd	23,700	69	794	251	79	25
Wilmington Ave btwn Alondra Blvd & Greenleaf Blvd	23,300	66.9	490	155	49	15
Wilmington Ave south of Greenleaf Blvd	26,400	68.6	724	229	72	23
Wilmington Ave north of Victoria St	28,700	72.9	1,950	617	195	62
SR91 - East City Limit to Long Beach Blvd	230,222	69.5	1,783	564	178	56
SR91 - Long Beach Blvd to West City Limit	230,222	79.8	19,100	6,040	1,910	604
I710 - North City Limit to Alondra Blvd	252,484	78.9	15,525	4,909	1,552	491
I710 - Alondra Blvd to South City Limit	252,484	70.5	2,244	710	224	71

Table Notes:

A. ADT is average daily traffic volume. ADT is bi-directional for all road segments except SR-91 and I-705. Local traffic volumes obtained from the travel demand modeling conducted for the Project (Iteris, 2024). Highway traffic volumes obtained from Caltrans.

B. CNEL is estimated at 50 feet from the road center for all road segments except SR 91 and I-705, which is estimated at 100 feet from the road center.

Compton 2045 General Plan Update
City of Compton, California
Appendix E
Existing Rail Noise Levels

Source	Day	Evening	Night	CNEL	Distance from Railroad Center to Noise Contour (ft)			
					60	65	70	75
Metro Light Rail	62.4	67.4	72.4	69.1	402	127	40	27
Freight Rail	66.7	71.7	76.7	73.4	1,090	345	109	74
Total Rail Activity	68.1	73.1	78.1	74.7	1,493	472	149	102

Noise Model

Noise Model Based on Federal Transit Administration General Transit Noise Assessment

Developed for Chicago Create Project

Copyright 2006, HMMH Inc.

Case: Compton - Willowbrook Freight (2022 and 2045)

RESULTS			
Noise Source	Ldn (dB)	Leq - daytime (dB)	Leq - nighttime (dB)
All Sources	72	68	65
Source 1	69	65	62
Source 2	66	62	59
Source 3	65	62	57
Source 4	50	46	43
Source 5	0	0	0
Source 6	0	0	0
Source 7	0	0	0
Source 8	0	0	0

Enter noise receiver land use category below.

LAND USE CATEGORY	
Noise receiver land use category (1, 2 or 3)	2

Enter data for up to 8 noise sources below - see reference list for source numbers.

NOISE SOURCE PARAMETERS						
Parameter	Source 1		Source 2		Source 3	
Source Num.	Freight Locomotive	9	Freight Cars	10	RRT/LRT	4
Distance (source to receiver)	distance (ft)	50	distance (ft)	50	distance (ft)	50
Daytime Hours (7 AM - 10 PM)	speed (mph)	30	speed (mph)	30	speed (mph)	45
	trains/hour	1	trains/hour	1	trains/hour	7
	locos/train	3	length of cars (ft) / train	2000	cars/train	7
Nighttime Hours (10 PM - 7 AM)	speed (mph)	30	speed (mph)	30	speed (mph)	45
	trains/hour	0.5	trains/hour	0.5	trains/hour	2
	locos/train	3	length of cars (ft) / train	2000	cars/train	7
Wheel Flats?		0.00%	% of cars w/ wheel flats	0.00%	% of cars w/ wheel flats	0.00%
Jointed Track?	Y/N	n	Y/N	n	Y/N	n
Embedded Track?	Y/N	n	Y/N	n	Y/N	n
Aerial Structure?	Y/N	n	Y/N	n	Y/N	n
Barrier Present?	Y/N	n	Y/N	n	Y/N	n
Intervening Rows of Buildings	number of rows	0	number of rows	0	number of rows	0

Compton 2045 General Plan Update
Compton, CA

Appendix E: Noise Analysis
Ambient Noise Monitoring Results
Prepared by: MIG, Inc.

Table 1: Summary of Long-Term Noise Monitoring

Site	Date	Time	Duration	LASeq	LASmin	LASmin Time	LASmax	LASmax Time	LAS1.67	LAS8.34	LAS16.70	LAS25.00	LAS50.00	LAS90.00
LT-1	10/8/2024	10:00 AM	1 hour	52.4	44.5	10:04 AM	64.2	10:08 AM	56.7	55.2	54.1	53.3	51.7	49.3
LT-1	10/8/2024	11:00 AM	1 hour	51.5	44.8	11:49 AM	64.5	11:52 AM	56.8	54.7	53.4	52.5	50.2	47.6
LT-1	10/8/2024	12:00 PM	1 hour	50.1	44.4	12:31 PM	67.2	12:24 PM	56.0	53.3	51.7	50.8	48.6	46.6
LT-1	10/8/2024	1:00 PM	1 hour	49.8	45.5	1:12 PM	63.2	1:15 PM	54.4	52.5	51.2	50.4	49.0	47.4
LT-1	10/8/2024	2:00 PM	1 hour	51.9	43.0	2:59 PM	66.5	2:30 PM	56.8	55.1	53.8	52.7	51.0	47.6
LT-1	10/8/2024	3:00 PM	1 hour	51.0	41.2	3:47 PM	67.6	3:26 PM	57.9	55.2	53.2	51.7	48.7	45.2
6-hour LT Summary				51.2	41.2	--	67.6	--	56.6	54.4	53.0	52.0	50.0	47.4

Table 2: Summary of Short-Term Noise Monitoring

Site	Start Date	Start Time	LAeq	LASmax	LASmin	LCE	LAS1%	LAS2%	LAS5%	LAS8%	LAS10%	LAS25%	LAS50%	LAS90%	LAS95%	LAS99%
ST-1	10/8/2024	10:16 AM	70.4	90.4	50.7	89.6	75.3	75.2	74.9	74.5	74.2	71.7	68.9	65.2	64.8	64.6
ST-2	10/8/2024	10:53 AM	68.6	82.8	48.4	87.0	73.0	72.9	72.7	72.3	72.1	69.8	67.3	63.5	63.1	62.8
ST-3	10/8/2024	11:24 AM	70.2	88.5	53.2	87.3	74.8	74.8	74.5	74.2	74.0	71.9	68.3	64.8	64.4	64.0
ST-4	10/8/2024	12:09 PM	73.6	91.2	51.3	90.7	78.1	78.0	77.7	77.3	77.0	74.8	72.3	68.9	68.5	68.2
ST-5	10/8/2024	12:53 PM	69.1	84.5	61.2	90.8	73.0	72.9	72.6	72.3	72.0	70.3	68.1	65.9	65.7	65.6
ST-6	10/8/2024	1:29 PM	68.7	81.0	58.3	91.9	71.9	71.8	71.5	71.2	71.0	69.6	68.1	66.2	66.0	65.9
ST-7	10/8/2024	2:18 PM	72.0	88.6	58.2	91.9	75.7	75.7	75.4	75.1	74.9	73.3	71.0	68.5	68.2	68.0
ST-8	10/8/2024	3:06 PM	63.3	80.0	49.9	83.8	68.5	68.4	68.0	67.6	67.2	64.8	61.3	56.7	56.2	55.9

Table 3: Summary of Long-Term Noise Monitoring for Comparison to Short-Term Noise Monitoring

Site	Site of Comparison	Date	Time	Duration	LASeq	LASmin	LASmin Time	LASmax	LASmax Time	LAS1.67	LAS8.34	LAS16.70	LAS25.00	LAS50.00	LAS90.00
LT-1	ST-1	10/8/2024	10:17 AM	20 mins	50.5	46.8	10:18 AM	58.5	10:19 AM	53.7	52.4	51.3	50.9	49.9	49.0
LT-1	ST-2	10/8/2024	10:53 AM	20 mins	51.6	45.2	11:05 AM	62.0	10:53 AM	55.5	54.3	53.2	52.4	50.8	48.5
LT-1	ST-3	10/8/2024	11:24 AM	20 mins	50.5	45.4	11:40 AM	61.2	11:33 AM	55.8	53.5	52.4	51.4	49.1	47.1
LT-1	ST-4	10/8/2024	12:09 PM	30 mins	51.2	44.4	12:31 PM	67.2	12:24 PM	57.9	54.8	53.0	51.9	49.1	46.6
LT-1	ST-5	10/8/2024	12:54 PM	20 mins	48.7	44.6	12:58 PM	56.5	1:07 PM	52.3	50.8	49.8	49.1	48.0	46.8
LT-1	ST-6	10/8/2024	1:29 PM	30 mins	50.9	45.5	1:48 PM	61.9	1:46 PM	55.2	53.5	52.4	51.6	50.1	48.1
LT-1	ST-7	10/8/2024	2:18 PM	30 mins	50.4	44.5	2:43 PM	66.5	2:30 PM	55.2	53.5	52.4	51.1	49.5	46.9
LT-1	ST-8	10/8/2024	3:06 PM	30 mins	53.0	42.0	3:06 PM	67.6	3:26 PM	60.0	57.3	55.4	53.8	50.6	46.3

Summary

File Name on Meter	LT_Compt.001.s
File Name on PC	LxT_0005065-20241008 094000-LT_Compt.001.ldbin
Serial Number	0005065
Model	SoundTrack LxT®
Firmware Version	2.404
User	
Location	
Job Description	
Note	

Measurement

Description	L2 Compton General Plan, September 8-9, 2024
Start	2024-10-08 09:40:00
Stop	2024-10-09 10:12:49
Duration	24:32:49.703
Run Time	24:32:49.703
Pause	00:00:00.0
Pre-Calibration	2024-10-08 09:34:39
Post-Calibration	2024-10-09 10:16:35
Calibration Deviation	-0.14 dB

Overall Settings

RMS Weight	A Weighting
Peak Weight	A Weighting
Detector	Slow
Preamplifier	PRMLxT1L
Microphone Correction	Off
Integration Method	Exponential
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Frequency Weighting	A Weighting
OBA Max Spectrum	Bin Max

Overload	122.6 dB		
	A	C	Z
Under Range Peak	79.1	76.1	81.1 dB
Under Range Limit	24.3	25.3	31.5 dB
Noise Floor	15.1	16.2	22.3 dB
	First	Second	Third
Instrument Identification	L02	MIG INCI-956-3802	

Results

LASeq	49.5 dB
LASE	99.0 dB
EAS	875.106 µPa²h
EAS8	285.200 µPa²h
EAS40	1.426 mPa²h
LApk (max)	2024-10-08 09:40:47 111.4 dB
LASmax	2024-10-08 09:40:47 77.9 dB
LASmin	2024-10-09 03:58:36 31.4 dB
SEA	-99.9 dB

	Exceedance Counts	Duration
LAS > 70.0 dB	98	159.0 s
LAS > 80.0 dB	0	0.0 s
LApk > 115.0 dB	0	0.0 s
LApk > 135.0 dB	0	0.0 s
LApk > 140.0 dB	0	0.0 s

		LDay	LNight		LDay	LEvening	LNight
		07:00-	22:00-		07:00-	19:00-	22:00-
Community Noise	LDN	22:00	07:00	LDEN	19:00	22:00	07:00
	51.3	51.2	41.4	51.6	51.9	46.3	41.4 dB
LCSeq	63.4 dB						

LASeq 49.5 dB
LCSeq - LASeq 13.9 dB
LAleq 57.4 dB
LAeq 49.5 dB
LAleq - LAeq 7.9 dB

	A		C		Z	
	dB	Time Stamp	dB	Time Stamp	dB	Time Stamp
Leq	49.5					
LS(max)	77.9	2024/10/08 9:40:47				
LS(min)	31.4	2024/10/09 3:58:36				
Lpk(max)	111.4	2024/10/08 9:40:47				

Overload Count 0
Overload Duration 0.0 s
OBA Overload Count 0
OBA Overload Duration 0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.94	-99.94 %
Projected Dose	-99.94	-99.94 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	54.4	54.4 dB

Ln Percentiles

LAS 1.67 57.2 dB

50.0	63.0	80.0	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
68.64	65.62	64.08	56.14	53.63	52.35	53.63	54.82	48.22	47.24	44.78	41.44	34.43	113.91	48.60	20.79	63.96	21.26	61.20	22.42	31.26
55.96	58.48	54.50	51.06	48.70	48.71	46.46	42.92	39.42	34.36	30.54	23.20	29.18	113.76	48.48	19.49	63.95	21.12	61.01	22.25	31.41
5.30	10.23	-0.79	2.42	17.06	6.32	7.84	15.96	5.70	7.70	9.10	6.59	6.62	7.37	7.39	7.36	9.54	10.91	13.39	11.96	40.50
57.80	60.81	60.64	55.93	53.93	48.97	45.79	45.87	38.70	33.17	28.95	22.77	27.90	113.84	48.45	19.50	63.96	21.41	61.06	22.47	31.25
56.43	57.90	59.60	56.46	50.25	50.43	44.08	40.32	37.58	35.15	35.31	32.07	31.62	114.14	48.91	22.00	64.40	21.41	61.30	22.86	31.45
55.41	53.60	53.88	49.46	55.58	50.92	44.23	40.76	34.89	29.94	27.45	19.77	28.90	113.84	48.69	18.92	64.41	20.59	60.96	21.80	31.24
54.75	49.59	54.97	55.64	52.05	48.25	44.54	40.06	37.37	32.73	29.10	21.50	28.32	114.06	48.80	18.91	64.60	21.22	61.04	22.55	31.08
54.97	56.03	50.39	52.87	48.67	45.62	43.77	38.26	38.35	36.04	35.18	28.06	28.27	113.92	48.62	18.90	64.10	21.22	61.27	23.05	31.41
58.74	60.93	51.18	53.13	51.66	47.08	44.96	44.84	41.31	37.80	33.68	25.47	28.90	113.90	48.66	19.32	64.17	21.73	61.16	22.73	31.28
50.59	51.87	53.97	53.03	49.07	50.95	44.86	43.10	36.71	31.72	28.89	22.91	28.76	114.07	48.79	19.18	64.88	21.19	61.41	23.42	31.35
45.38	43.19	39.06	39.37	40.35	37.91	35.70	38.79	34.91	33.29	28.73	21.52	29.03	113.95	48.77	18.69	64.46	21.35	60.91	21.85	31.01
49.50	53.32	48.90	50.55	47.06	44.05	41.76	40.17	33.51	34.13	30.11	25.23	28.09	114.01	48.72	20.18	64.50	21.09	60.93	22.61	30.84
47.55	52.83	50.89	48.56	46.29	51.06	50.50	43.54	40.17	35.81	30.44	24.78	28.73	114.00	48.79	18.65	64.54	20.91	60.98	22.44	31.17
65.41	68.83	62.78	62.10	55.43	53.22	52.36	56.95	51.88	50.53	46.55	39.92	34.29	114.02	48.67	20.70	64.22	21.26	61.26	22.79	31.46
67.09	68.35	63.97	59.66	59.30	55.74	57.85	50.76	51.21	46.36	45.53	39.72	30.95	114.04	48.73	21.70	64.50	21.20	61.14	22.92	31.04
52.74	65.09	60.87	48.04	56.39	57.29	47.89	43.57	41.06	38.57	37.42	31.28	28.86	114.03	48.67	19.01	64.33	21.25	61.21	22.33	31.49
61.27	58.71	58.88	59.54	59.04	53.78	51.71	49.26	50.35	46.96	40.77	30.06	30.34	113.87	48.14	19.66	63.73	21.09	60.62	21.46	30.99
55.97	55.07	62.82	61.29	53.53	47.04	52.78	52.71	41.16	51.56	50.57	40.64	30.71	114.05	48.86	20.76	64.05	21.20	61.41	21.24	31.73
53.48	54.61	52.56	51.21	54.23	48.17	44.17	40.83	35.30	30.69	29.77	21.85	28.34	113.97	48.76	18.61	63.83	21.39	61.43	20.93	31.96
55.35	64.59	49.53	64.01	54.81	53.49	52.57	45.28	47.08	41.93	34.33	30.10	28.68	113.97	48.70	19.74	63.85	21.34	61.38	20.84	31.93
53.76	56.26	51.32	50.09	49.67	53.88	54.48	48.07	48.00	50.64	48.13	40.50	29.57	113.94	48.68	19.48	63.85	21.39	61.30	21.34	31.91
67.89	62.43	64.84	62.57	64.38	60.16	62.80	65.63	60.67	67.06	60.91	54.22	40.52	113.91	48.62	23.05	64.49	21.53	61.23	22.25	31.58
66.60	67.27	69.66	67.68	57.90	58.85	58.39	53.33	51.93	44.63	43.60	36.04	30.69	113.78	48.44	20.27	64.17	21.08	60.88	20.92	31.42

6300	8000	10000	12500	16000	20000
21.42	22.28	23.39	25.63	27.87	30.73
20.98	22.35	23.88	25.65	27.81	30.40
22.82	16.28	16.56	19.58	18.42	19.53
21.19	22.16	23.67	25.54	27.75	30.86
22.07	22.85	24.18	26.29	28.39	30.90
21.27	22.48	23.78	25.84	27.73	30.62
22.20	22.76	24.33	25.91	28.31	30.87
20.92	22.27	24.08	25.77	28.05	31.57
21.41	22.33	23.70	25.61	27.79	30.43
21.71	22.90	24.31	25.84	28.04	30.93
21.31	22.78	24.05	25.69	28.16	30.57
21.50	22.69	24.35	26.03	27.95	30.87
21.28	22.39	23.96	26.20	28.18	30.79
21.71	22.56	23.87	25.83	28.05	30.91
21.54	22.75	24.13	25.98	28.50	31.10
21.36	22.57	24.00	25.99	28.24	30.56
21.09	22.44	23.77	25.04	27.61	30.45
21.69	22.79	24.13	25.97	28.10	30.86
21.81	22.70	24.11	25.86	28.00	30.58
21.21	22.74	23.98	25.59	28.13	30.62
21.60	22.60	23.97	25.80	28.15	30.81
21.73	22.58	23.72	25.80	28.05	30.57
23.49	25.34	24.82	25.53	27.97	31.49

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DRAFT TECHNICAL MEMORANDUM

To: City of Compton

From: Iteris, Inc.

Date: September 18, 2024

RE: DRAFT Compton General Plan Update – CEQA Transportation Impact Analysis

INTRODUCTION

This memorandum describes the California Environmental Quality Act (CEQA) transportation impact analysis for the City of Compton General Plan Update project. The evaluation is consistent with CEQA Guidelines effective December 28, 2018. The General Plan’s impacts are evaluated per Appendix G Environmental Checklist Form of the current CEQA guidelines, which assesses projects by the four criteria listed below:

- T-1** Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?*
- T-2** Would the project conflict with or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?*
- T-3** Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*
- T-4** Would the project result in inadequate emergency access?*

PROJECT SETTING

The Compton General Plan Update (Project) is a regulatory plan that serves as the roadmap for planning and development in the City and indicates the community’s vision for the future. The City is located approximately six miles north of downtown Long Beach and eight miles south of downtown Los Angeles. The City is bound by the City of Lynwood and an unincorporated County area (Willowbrook) to the north, the City of Paramount to the east, unincorporated County areas and the Cities of Carson and Long Beach to the south, and unincorporated County areas to the west.

In terms of regional access, the City is served by two freeways passing through the City and one running just outside the City’s boundary. Within the City, the Long Beach Freeway (I-710) runs in a north-south orientation along City’s easterly boundary and the Artesia Freeway (SR-91) runs in an east-west orientation along the southerly portion. The Century Freeway (I-105), which runs in an east-west orientation, is located just outside the City to the north. The major east-west corridors that traverse the area and provide access to I-710 are Rosecrans Avenue and Alondra Boulevard. The major north-south

corridors that traverse the area and provide access to either SR-91 or I-105 are Central Avenue, Wilmington Avenue, Alameda Street, and Long Beach Boulevard. On average, Rosecrans Avenue carries the highest daily traffic volumes amongst all roadways in the City.

Several transit networks operate within Compton to serve local residents and regional commuters. Public transportation options in the City are varied and include local fixed-route bus, regional bus, and rail services. Local and regional bus services include Metro Local Bus System, G Trans, and Renaissance Transit. Compton is served by a light rail system operated by Metro, which is the Metro A (previously Blue) Line. The line travels north-south between Downtown Los Angeles and Long Beach, passing through Downtown Los Angeles, South Los Angeles, Watts, Willowbrook, Compton, Rancho Dominguez, and Long Beach. Two stations within Compton provide access to the line: Compton and Artesia Stations.

In terms of active transportation, Compton's current designated bikeway network consists of two Class I Bicycle Paths (along Compton Creek and the Los Angeles River) and several Class II Bicycle Lanes (along Central Avenue, Wilmington Avenue, Alondra Boulevard, etc.). There are currently no Class III (shared-use bike route) or Class IV (protected bike lane) bike facilities within the City, though the City's Bicycle Master Plan includes recommendations to add these facilities to the network in the future.

ANALYSIS METHODOLOGY

For impact criteria T-1, T-3, and T-4, a qualitative assessment was prepared to determine if any potential significant impacts would occur as a result of the Project.

For impact criteria T-2, a technical analysis was performed using the most recent version of the Southern California Association of Governments (SCAG) model, a computerized travel demand model. Iteris utilized the latest version of the SCAG Activity-Based Model (ABM) to generate the VMT statistics. The ABM includes the following features/capabilities: comprehensively characterizes the activity-travel patterns of all household members, incorporates spatial-temporal dependencies and constraints between and within individuals of a household, incorporates advanced vehicle type choice sub-model (vehicle fleet composition defined by body type, fuel type, make/model, and vintage) for emissions analysis, and involves a portable and flexible object-oriented software architecture design.

The model consists of a 2021 base year scenario and 2045 future year scenario. The Compton General Plan area encompasses 62 traffic analysis zones (TAZ's) within the SCAG model (either fully or partially).

For the impact criteria T-2 analysis, all VMT for trips beginning or ending in a particular geography were accounted for, consistent with the Governor's Office of Planning and Research (OPR) Technical Advisory on Evaluating Transportation Impacts in CEQA. While other methodologies measure only the amount of VMT traveling on streets within a particular geography, or only half the distance of trips from outside of the City (as in SB 375 Regional Plan Climate Target analysis), the General Plan project analyzes the full extent of vehicle travel from the project.

In order to determine the General Plan project's potential level of impact, a new scenario was prepared, incorporating the land use projections of the General Plan. For land use plans which include both residential and employment uses, the appropriate analysis metric is VMT per service population, where

service population is defined as the number of residents plus the number of jobs. The land use plan includes additional residential and non-residential land use, allocated to opportunity sites throughout the plan area, which includes both the City and Sphere of Influence (SOI). The total land use quantities are summarized as follows:

- A net increase of 5,590 new residential units within the City and a net increase of 186 new residential units within the SOI
- A net increase of 1,333,110 square feet of non-residential uses within the City and a net decrease of 16,640 square feet of non-residential uses within the SOI

IMPACT ANALYSIS

This section presents the CEQA impact evaluation for each of the four criteria.

T-1 Impact Evaluation

Threshold: *Would the project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?*

The General Plan Update's planned transportation networks provide consistency related to regional active transportation plans and other mobility infrastructure plans; specifically the Southern California Association of Governments (SCAG) Regional Transportation Plan/Sustainable Communities Strategy, the City's Bicycle Master Plan, and the City's Local Roadway Safety Plan.

SCAG Regional Transportation Plan/Sustainable Communities Strategy

Compton is a member of the SCAG Regional Council, the decision-making body of the SCAG Joint Powers Authority under California state law, established as an association of local governments and agencies that voluntarily convene as a forum to address regional issues. Under federal law, SCAG is designated as a Metropolitan Planning Organization (MPO) and under state law as a Regional Transportation Planning Agency and a Council of Governments. The SCAG **Regional Transportation Plan/Sustainable Communities Strategy** (RTP/SCS), Connect SoCal is a long-range visioning plan that builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. The Connect SoCal RTP/SCS is a planning document for the region, allowing project sponsors to qualify for federal funding. In addition, Connect SoCal 2024 will identify a combination of transportation and land use strategies that help the region achieve state greenhouse gas emission reduction goals and federal Clean Air Act requirements, preserve open space areas, improve public health and roadway safety, and support our vital goods movement industry.

The RTP/SCS is updated every four years and it is anticipated that the City will work with SCAG to update the RTP/SCS to be consistent with the General Plan. The General Plan includes strategies for mixed-use development, which allows multiple land uses to work together, to reduce vehicle trip lengths. The California Air Resources Board's (CARB) 2016 Mobile Source Strategy recognizes that coordinated regional planning can improve California's land use patterns and transportation policy in a way that reduces transportation related emissions by reducing growth in VMT.

Compton Bicycle Master Plan

The Bicycle Master Plan, adopted in 2015, provides for a recommended citywide network of bicycle paths, lanes, and routes, as well as bicycle-related programs and support facilities. The intent of the plan is to promote bicycling as a more viable transportation option for people who live, work, and recreate in Compton. The plan includes ten goals which are aimed at making Compton one of the most bikeable, livable, and age-friendly cities in the country. The plan includes recommendations for roughly 85 miles worth of new bicycle facilities, including Class I paths, Class II lanes, Class III routes/boulevards, and Class IV protected lanes. The proposed General Plan Update's circulation plan will incorporate recommendations from the Bicycle Master Plan.

Compton Local Roadway Safety Plan

The Local Roadway Safety Plan (LRSP) identifies emphasis areas to inform and guide further safety evaluation of the City's transportation network. The emphasis areas include most frequent types of crashes that have occurred, certain locations where crashes have occurred frequently, and notable relationships between current efforts and crash history. The plan includes four overarching goals with the vision to enhance the City's transportation network through the reduction in traffic fatalities and serious injury related crashes. The LRSP is based on crash data from 2016 through 2020. The proposed General Plan Update's circulation plan will be consistent with, and therefore not conflict with, recommendations from the LRSP.

Based on these considerations, the Compton General Plan Update is consistent with programs, plans, ordinances and policies addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities, making the impact **less-than-significant**.

T-2 Impact Evaluation

Threshold: *Would the project conflict with or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?*

Under criteria T-2, the proposed General Plan's effects on Vehicle Miles Traveled (VMT) are evaluated, as described in the following section.

VMT Impact Analysis

The City of Compton currently defers to using the CEQA thresholds applied by the County of Los Angeles to evaluate the VMT impacts of individual development projects or land use plans. The thresholds of significance are as follows:

- A project will be considered to have an impact if it generates VMT per capita, per employee, or per service population in excess of 16.8% less than the existing VMT per capita, per employee, or per service population for the County of Los Angeles.

This threshold was applied to evaluate the potential transportation impacts of the General Plan Update. As mentioned, since the GPU includes both residential and non-residential land use, VMT per service

population (i.e., residents plus employees) was used as the analysis metric.

Applying the described land use projections, countywide VMT (i.e., regional average) and Citywide area VMT outputs were developed using the SCAG model. **Table 1** summarizes the daily countywide VMT per service population for the existing scenario and daily VMT per service population for the existing plus General Plan project scenario. Detailed VMT calculations are provided in **Appendix A**.

Table 1: General Plan Update Plan VMT Summary (versus regional average)

Scenario (Area)	Total Home-based Daily VMT	Total Work-based Daily VMT	Total Daily VMT	Service Population*	VMT / Service Population
Existing (County of Los Angeles)	184,765,512	106,628,569	291,394,082	15,153,485	19.2
Existing Plus Project (City of Compton)	1,932,438	595,801	2,528,239	186,763	13.5

* Service Population equals the total of residents and employees

As shown in **Table 1**, the existing plus project VMT per service population for the General Plan area (i.e., the City of Compton) is forecast to be 13.5, while the existing countywide VMT per service population is currently 19.2. As such, 16.8% below existing countywide VMT per service population is 16.0. Therefore, the existing plus General Plan project VMT per service population (13.5) is not forecast to exceed the described CEQA threshold. Thus, this impact is considered **less than significant**.

T-3 Impact Evaluation

Threshold: *Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

Any roadway modifications included as a result of the General Plan's land use plan will be designed to City and State engineering design standards to meet sight distance requirements, including visibility of pedestrians and bicyclists. The General Plan does not propose any incompatible uses that would increase hazards. As a result, the General Plan will have a beneficial impact on geometric design features and incompatible uses.

As such, the General Plan would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment). Thus, this impact is considered **less than significant**.

T-4 Impact Evaluation

Threshold: *Would the project result in inadequate emergency access?*

The General Plan does not include elements that would impede emergency vehicle access. Any public

roadways would be designed to conform to County Fire Department standards for access, as would buildings included within new developments.

Thus, this impact is considered **less than significant**.



APPENDIX A – VMT Calculations



VMT Calculation Summary

Model Scenario	Population		Employees		Total Home-based VMT		Total Work-based VMT		VMT/Service Population (not including Other VMT)		
	City of Compton	LA County	City of Compton	LA County	City of Compton	LA County	City of Compton	LA County	City of Compton	LA County	Compton Compared to LA County
Existing	124,353	10,329,196	40,000	4,824,289	1,640,911	184,765,512	569,948	106,628,569	13.5	19.2	70.0%
Existing Plus Proj	144,362	10,349,205	42,401	4,826,690	1,932,438	185,090,158	595,801	106,660,950	13.5	19.2	70.4%