Appendix B
Air Quality Worksheets

Culver City 2045 General Plan Update
Air Quality and GHG Assessment
Operational Mobile Emissions

			Criteria Pollutant Emission Factors (lb/mile)										Criteria Pollutant Emissions (pounds/day)									
	Year	Weekday Daily VMT	ROG	NOx	CO	SOx	PM10 Road Dust	PM10 Exh, BW, TW	PM10 Total	PM2_5 Road Dust	PM2_5 Exh, BW, TW	PM2.5 Total	ROG	NOx	CO	SOx	PM10 Road Dust	PM10 Exh, BW, TW	PM10 Total	PM2_5 Road Dust	PM2_5 Exh, BW, TW	PM2.5 Total
2019 Existing																						
Auto	2019	1,687,334	4.59E-04	3.98E-04	4.50E-03	7.89E-06	6.62E-04	4.37E-05	7.06E-04	1.66E-04	1.66E-05	1.82E-04	775.0	671.1	7,596.8	13.3	1,117.8	73.7	1,191.5	279.4	28.0	307.4
Light-heavy Truck	2019	17,681	7.42E-04	2.73E-03	5.02E-03	1.47E-05	6.62E-04	2.26E-04	8.88E-04	1.66E-04	9.43E-05	2.60E-04	13.1	48.2	88.7	0.3	11.7	4.0	15.7	2.9	1.7	4.6
Medium-heavy Truck	2019	24,994	6.33E-04	8.82E-03	5.24E-03	2.80E-05	6.62E-04	3.14E-04	9.76E-04	1.66E-04	2.23E-04	3.89E-04	15.8	220.3	130.8	0.7	16.6	7.8	24.4	4.1	5.6	9.7
Heavy-heavy Truck	2019	112,520	4.13E-04	1.11E-02	7.12E-03	3.33E-05	6.62E-04	4.20E-04	1.08E-03	1.66E-04	2.30E-04	3.96E-04	46.5	1,246.1	800.8	3.7	74.5	47.3	121.8	18.6	25.9	44.6
Totals													**850**	**2,186**	**8,617**	**18**	*1,221*	*133*	**1,353**	*305*	*61*	**366**
2045 General Plan Update																						
Auto	2045	1,792,864	1.89E-04	9.40E-05	1.68E-03	5.46E-06	6.62E-04	3.93E-05	7.02E-04	1.66E-04	1.28E-05	1.78E-04	339.3	168.6	3,019.3	9.8	1,187.7	70.4	1,258.1	296.9	23.0	319.9
Light-heavy Truck	2045	25,158	1.56E-04	2.53E-04	1.33E-03	6.10E-06	6.62E-04	1.67E-04	8.30E-04	1.66E-04	6.18E-05	2.27E-04	3.9	6.4	33.5	0.2	16.7	4.2	20.9	4.2	1.6	5.7
Medium-heavy Truck	2045	29,367	4.89E-05	7.90E-04	5.67E-04	1.15E-05	6.62E-04	1.03E-04	7.66E-04	1.66E-04	3.58E-05	2.01E-04	1.4	23.2	16.6	0.3	19.5	3.0	22.5	4.9	1.1	5.9
Heavy-heavy Truck	2045	129,259	9.86E-05	3.26E-03	1.66E-03	2.15E-05	6.62E-04	2.89E-04	9.52E-04	1.66E-04	1.17E-04	2.83E-04	12.7	421.0	214.9	2.8	85.6	37.4	123.0	21.4	15.1	36.5
Totals													**357**	**619**	**3,284**	**13**	*1,309*	*115*	**1,424**	*327*	*41*	**368**
													(493)	**(1,567)**	**(5,333)**	**(5)**	*89*	*(18)*	**71**	*22*	*(20)*	**2**

Note: 2045 General Plan Update VMT is based on the General Plan Financially Contrained Scenario, which results in the greatest total VMT.
Source: EMFAC2021; Fehr & Peers, 2023 (VMT data)

Culver City 2045 General Plan Update
Road Dust Emission Factors

Paved Road Dust Emission Factors (Assumes No Precipitation)

Formula: $EF_{Dust,P} = (k\ (sL)^{0.91} \times (W)^{1.02})$

Where:

$EF_{Dust,P}$ = Paved Road Dust Emission Factor (having the same units as k)
k = particle size multiplier
sL = road surface silt loading (g/m^2)
W = average fleet vehicle weight (tons) (CARB uses 2.4 tons as a fleet average vehicle weight factor)

	Emission Factor (grams per VMT)	
	PM10	PM2.5
k	1.0000	0.2500
sL	0.1	0.1
W	2.4	2.4
$EF_{Dust,P}$	3.00E-01	7.51E-02

Unpaved Road Dust Emission Factors (Assumes No Precipitation)

Formula: $EF_{Dust,U} = (k\ (\ s / 12)^{1} \times (Sp / 30)^{0.5} / (M / 0.5)^{0.2}) - C)$

Where:

$EF_{Dust,U}$ = Unpaved Road Dust Emission Factor (having the same units as k)
k = particle size multiplier
s = surface material silt content (%)
S = mean vehicle speed (mph)
M = surface material moisture content (%)
C = Emission Factor for 1980s vehicle fleet exhaust, brake wear, and tire wear

	Emission Factor (grams per VMT)	
	PM10	PM2.5
k	816.47	81.65
s	8.5%	8.5%
S	15	15
M	0.5%	0.5%
C	0.00047	0.00036
$EF_{Dust,U}$	1.03E+01	1.03E+00

Sources:
SCAQMD, CalEEMod, Version 2022.1.
CARB, *Entrained Dust from Paved Road Travel: Emission Estimation Methodology Background Document* , (1997).
USEPA, *AP-42* , Fifth Edition, Volume I, Chapter 13.2.1 - Paved Roads, (2011).
ESA, 2024.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: Los Angeles
Calendar Year: 2019, 2040
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Vehicle Category (Multiple Items) **LDA, LDT1, LDT2, MCY, MDV, MH**

			US Tons/Day	US Tons/Day	US Tons/Day	US Tons/Day	US Tons/Day	US Tons/Day
Row Labels	**Sum of Fuel Consumption**	**Sum of Total VMT**	**Sum of ROG_TOTAL**	**Sum of NOx_TOTEX**	**Sum of CO_TOTEX**	**Sum of SOx_TOTEX**	**Sum of PM10_TOTAL**	**Sum of PM2.5_TOTAL**
2019	**10540.19539**	**250500126.8**	**57.53035706**	**49.81568663**	**563.9077168**	**0.988623143**	**5.470592587**	**2.077661242**
Diesel	37.33765276	961702.6082	0.045329743	0.475755447	0.412082945	0.003960537	0.05237526	0.036648173
Electricity	0	2556682.759	0	0	0	0	0.034833258	0.009937032
Gasoline	10445.01366	244048634.6	57.37340297	49.29518591	562.2681643	0.979239615	5.339754919	2.015818818
Plug-in Hybrid	57.84407924	2933106.845	0.111624341	0.044745272	1.227469536	0.005422991	0.04362915	0.015257219
2045	**7644.088074**	**262529328.2**	**24.84320523**	**12.34260537**	**221.0569145**	**0.71702623**	**5.152863286**	**1.682451238**
Diesel	30.7295824	849809.6344	0.011921693	0.180871878	0.172984771	0.003259596	0.024497279	0.010064943
Electricity	0	19657906.28	0	0	0	0	0.268503914	0.076641064
Gasoline	7483.073051	233410429.6	24.33018151	12.0201716	217.6946226	0.701552129	4.740910035	1.559914106
Plug-in Hybrid	130.2854406	8611182.649	0.50110203	0.141561887	3.189307105	0.012214504	0.118952058	0.035831125
Grand Total	**18184.28346**	**513029454.9**	**82.37356229**	**62.15829199**	**784.9646313**	**1.705649373**	**10.62345587**	**3.76011248**

	gal/mi	mi/day	lbs/mi	lbs/mi	lbs/mi	lbs/mi	lbs/mi	lbs/mi
	Sum of Fuel Consumption	**Sum of Total VMT**	**Sum of ROG_TOTAL**	**Sum of NOx_TOTEX**	**Sum of CO_TOTEX**	**Sum of SOx_TOTEX**	**Sum of PM10_TOTAL**	**Sum of PM2.5_TOTAL**
2019	**0.042076607**	**250500126.8**	**0.000459324**	**0.00039773**	**0.004502255**	**7.89319E-06**	**4.36774E-05**	**1.65881E-05**
Diesel	0.038824531	961702.6082						
Electricity	0	2556682.759						
Gasoline	0.042798902	244048634.6						
Plug-in Hyb	0.019721095	2933106.845						
2045	**0.029117082**	**262529328.2**	**0.00018926**	**9.40284E-05**	**0.001684055**	**5.46245E-06**	**3.92555E-05**	**1.28172E-05**
Diesel	0.036160548	849809.6344						
Electricity	0	19657906.28						
Gasoline	0.03205972	233410429.6						
Plug-in Hyb	0.015129796	8611182.649						

Vehicle Category (Multiple Items) **LHDT1, LHDT2**

Row Labels	**Sum of Fuel Consumption**	**Sum of Total VMT**	**Sum of ROG_TOTAL**	**Sum of NOx_TOTEX**	**Sum of CO_TOTEX**	**Sum of SOx_TOTEX**	**Sum of PM10_TOTAL**	**Sum of PM2.5_TOTAL**
2019	**566.8513222**	**7425123.906**	**2.753449261**	**10.12445718**	**18.63168282**	**0.054650325**	**0.839231303**	**0.35018129**
Diesel	122.3008085	2271763.491	0.387617634	6.668857961	1.274334653	0.012972881	0.331948559	0.171930498
Gasoline	444.5505137	5153360.415	2.365831627	3.455599221	17.35734817	0.041677444	0.507282744	0.178250792
2045	**380.3018796**	**12355351.37**	**0.962286804**	**1.565038117**	**8.223838705**	**0.037672194**	**1.033061123**	**0.382012086**
Diesel	163.7909886	3346355.575	0.194045081	0.855542214	0.46772639	0.017373892	0.39723254	0.164964237
Electricity	0	5505582.416	0	0	0	0	0.293390614	0.097831622
Gasoline	216.510891	3503413.379	0.768241723	0.709495903	7.756112314	0.020298302	0.34243797	0.119216227
Grand Total	**947.1532018**	**19780475.28**	**3.715736064**	**11.6894953**	**26.85552153**	**0.092322519**	**1.872292427**	**0.732193377**

	gal/mi	mi/day	lbs/mi	lbs/mi	lbs/mi	lbs/mi	lbs/mi	lbs/mi
	Sum of Fuel Consumption	**Sum of Total VMT**	**Sum of ROG_TOTAL**	**Sum of NOx_TOTEX**	**Sum of CO_TOTEX**	**Sum of SOx_TOTEX**	**Sum of PM10_TOTAL**	**Sum of PM2.5_TOTAL**
2019	**0.076342338**	**7425123.906**	**0.000741657**	**0.002727081**	**0.005018551**	**1.47204E-05**	**0.000226052**	**9.43234E-05**
Diesel	0.053835185	2271763.491						
Gasoline	0.0862642	5153360.415						
2045	**0.030780337**	**12355351.37**	**0.000155768**	**0.000253338**	**0.001331219**	**6.09812E-06**	**0.000167225**	**6.18375E-05**
Diesel	0.04894608	3346355.575						
Electricity	0	5505582.416						
Gasoline	0.061799984	3503413.379						

Vehicle Category MHDT **MHDT**

Row Labels	**Sum of Fuel Consumption**	**Sum of Total VMT**	**Sum of ROG_TOTAL**	**Sum of NOx_TOTEX**	**Sum of CO_TOTEX**	**Sum of SOx_TOTEX**	**Sum of PM10_TOTAL**	**Sum of PM2.5_TOTAL**
2019	**463.9859189**	**3338430.84**	**1.056877182**	**14.71518304**	**8.738421757**	**0.046660285**	**0.523977441**	**0.372626804**
Diesel	282.0759012	2439366.252	0.529583995	13.66307552	2.115969848	0.029901511	0.467289985	0.353057881
Gasoline	178.7566872	873715.2539	0.526935442	1.044103055	6.538452512	0.016758775	0.055107995	0.019033787
Natural Gas	3.153330508	25349.33424	0.000357745	0.008004463	0.083999398	0	0.001579461	0.000535136
2045	**271.2704005**	**4781239.596**	**0.116988475**	**1.889714555**	**1.354418747**	**0.027545202**	**0.246456513**	**0.085605859**
Diesel	210.4429632	2094466.967	0.021868626	1.801653167	0.508640204	0.022308047	0.136924578	0.050496071
Electricity	0	2311242.103	0	0	0	0	0.086007462	0.027045362
Gasoline	55.86186705	334253.6522	0.094497098	0.078075796	0.699710876	0.005237155	0.020920032	0.007159864
Natural Gas	4.965570341	41276.87477	0.000622752	0.009985591	0.146067666	0	0.002604441	0.000904561
Grand Total	**735.2563195**	**8119670.436**	**1.173865657**	**16.6048976**	**10.0928405**	**0.074205487**	**0.770433954**	**0.458232663**

	gal/mi	mi/day	lbs/mi	lbs/mi	lbs/mi	lbs/mi	lbs/mi	lbs/mi
	Sum of Fuel Consumption	**Sum of Total VMT**	**Sum of ROG_TOTAL**	**Sum of NOx_TOTEX**	**Sum of CO_TOTEX**	**Sum of SOx_TOTEX**	**Sum of PM10_TOTAL**	**Sum of PM2.5_TOTAL**
2019	**0.138983235**	**3338430.84**	**0.000633158**	**0.008815629**	**0.005235047**	**2.79534E-05**	**0.000313906**	**0.000223235**
Diesel	0.115634912	2439366.252						
Gasoline	0.204593758	873715.2539						
Natural Ga	0.124395003	25349.33424						
2045	**0.056736416**	**4781239.596**	**4.89365E-05**	**0.000790471**	**0.000566555**	**1.15222E-05**	**0.000103093**	**3.58091E-05**
Diesel	0.100475666	2094466.967						
Electricity	0	2311242.103						
Gasoline	0.167124179	334253.6522						
Natural Ga	0.120299087	41276.87477						

Vehicle Category	(Multiple Items)	HHDT, OBUS, SBUS, UBUS

Row Labels	Sum of Fuel Consumption	Sum of Total VMT	Sum of ROG_TOTAL	Sum of NOx_TOTEX	Sum of CO_TOTEX	Sum of SOx_TOTEX	Sum of PM10_TOTAL	Sum of PM2.5_TOTAL
2019	**1372.652399**	**7493668.981**	**1.549204229**	**41.49362243**	**26.66652086**	**0.124595312**	**1.574878436**	**0.863474188**
Diesel	1128.580656	6484218.348	1.213528629	39.17398937	6.694505329	0.119635568	1.430789097	0.81417269
Electricity	0	4888.574475	0	0	0	0	0.000462642	0.000145167
Gasoline	52.90287592	277898.1563	0.144855803	0.309193111	2.172769331	0.004959744	0.019953119	0.006903325
Natural Gas	191.1688675	726663.9017	0.190819798	2.010439953	17.7992462	0	0.123673578	0.042253006
2045	**1424.918094**	**13351966.08**	**0.658038153**	**21.74309979**	**11.09969744**	**0.143759983**	**1.932009925**	**0.781502315**
Diesel	1343.891456	10116268.22	0.598361322	21.53246126	7.69978519	0.142459475	1.607607999	0.678756448
Electricity	0	2687324.121	0	0	0	0	0.237221903	0.07319017
Gasoline	13.87181438	106800.655	0.050009088	0.038850209	0.339488749	0.001300509	0.007339581	0.002550782
Natural Gas	67.15482317	441573.0833	0.009667743	0.171788327	3.060423502	0	0.079840443	0.027004915
Grand Total	**2797.570493**	**20845635.06**	**2.207242383**	**63.23672222**	**37.7662183**	**0.268355295**	**3.506888361**	**1.644976503**

	gal/mi	mi/day	lbs/mi	lbs/mi	lbs/mi	lbs/mi	lbs/mi	lbs/mi
	Sum of Fuel Consumption	**Sum of Total VMT**	**Sum of ROG_TOTAL**	**Sum of NOx_TOTEX**	**Sum of CO_TOTEX**	**Sum of SOx_TOTEX**	**Sum of PM10_TOTAL**	**Sum of PM2.5_TOTAL**
2019	**0.183174944**	**7493668.981**	**0.00041347**	**0.011074314**	**0.00711708**	**3.32535E-05**	**0.000420322**	**0.000230454**
Diesel	0.174050378	6484218.348						
Electricity	0	4888.574475						
Gasoline	0.190367855	277898.1563						
Natural Ga	0.263077424	726663.9017						
2045	**0.106719721**	**13351966.08**	**9.8568E-05**	**0.003256914**	**0.001662631**	**2.15339E-05**	**0.000289397**	**0.000117062**
Diesel	0.132844585	10116268.22						
Electricity	0	2687324.121						
Gasoline	0.129885106	106800.655						
Natural Ga	0.15208088	441573.0833						

Culver City Existing Scenario Run (2019) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Culver City Existing Scenario Run (2019)
Operational Year	2019
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	8.20
Location	Culver City, CA, USA
County	Los Angeles-South Coast
City	Culver City
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4457
EDFZ	16
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

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
Condo/Townhouse High Rise	17,010	Dwelling Unit	1,408	18,030,600	1,803,060	—	50,350	—

Office Park	28,625	1000sqft	6,501	28,624,900	2,862,490	—	—	—
Industrial Park	1,881	1000sqft	227	1,881,100	188,110	—	—	—
High School	3,077	1000sqft	3.50	3.50	0.35	0.35	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5,466	514	6,911	9.85	638	0.00	638	638	0.00	638	95,477	1,415,310	1,510,787	3,763	41.9	688	1,618,060
Mit.	5,466	514	6,911	9.85	638	0.00	638	638	0.00	638	83,207	1,415,310	1,498,517	2,537	41.9	688	1,575,134
% Reduced	—	—	—	—	—	—	—	—	—	—	13%	—	1%	33%	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5,143	492	4,638	9.73	635	0.00	635	635	0.00	635	95,477	1,407,274	1,502,750	3,763	41.9	688	1,609,995
Mit.	5,143	492	4,638	9.73	635	0.00	635	635	0.00	635	83,207	1,407,274	1,490,481	2,537	41.9	688	1,567,069
% Reduced	—	—	—	—	—	—	—	—	—	—	13%	—	1%	33%	—	—	3%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,653	242	2,020	1.92	60.5	0.00	60.5	60.0	0.00	60.0	40,569	1,129,193	1,169,763	3,758	36.5	688	1,275,291
Mit.	1,653	242	2,020	1.92	60.5	0.00	60.5	60.0	0.00	60.0	28,300	1,129,193	1,157,493	2,532	36.5	688	1,232,364
% Reduced	—	—	—	—	—	—	—	—	—	—	30%	—	1%	33%	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	302	44.2	369	0.35	11.0	0.00	11.0	10.9	0.00	10.9	6,717	186,951	193,668	622	6.05	114	211,139
Mit.	302	44.2	369	0.35	11.0	0.00	11.0	10.9	0.00	10.9	4,685	186,951	191,636	419	6.05	114	204,032
% Reduced	—	—	—	—	—	—	—	—	—	—	30%	—	1%	33%	—	—	3%

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	5,454	307	6,754	8.59	622	—	622	622	—	622	58,944	312,473	371,417	6.07	5.84	—	373,310
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	1,040,170	1,040,170	71.2	6.41	—	1,043,859
Water	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Waste	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	5,466	514	6,911	9.85	638	0.00	638	638	0.00	638	95,477	1,415,310	1,510,787	3,763	41.9	688	1,618,060
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	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
Area	5,131	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	1,040,170	1,040,170	71.2	6.41	—	1,043,859
Water	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Waste	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	5,143	492	4,638	9.73	635	0.00	635	635	0.00	635	95,477	1,407,274	1,502,750	3,763	41.9	688	1,609,995
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	1,641	34.7	1,864	0.66	44.6	—	44.6	44.0	—	44.0	4,037	26,356	30,393	0.62	0.44	—	30,541
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	1,040,170	1,040,170	71.2	6.41	—	1,043,859
Water	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Waste	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	1,653	242	2,020	1.92	60.5	0.00	60.5	60.0	0.00	60.0	40,569	1,129,193	1,169,763	3,758	36.5	688	1,275,291
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	300	6.33	340	0.12	8.13	—	8.13	8.04	—	8.04	668	4,364	5,032	0.10	0.07	—	5,056
Energy	2.11	37.8	28.5	0.23	2.91	—	2.91	2.91	—	2.91	—	172,212	172,212	11.8	1.06	—	172,823
Water	—	—	—	—	—	—	—	—	—	—	1,986	10,375	12,361	204	4.92	—	18,932
Waste	—	—	—	—	—	—	—	—	—	—	4,063	0.00	4,063	406	0.00	—	14,214
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	114
Total	302	44.2	369	0.35	11.0	0.00	11.0	10.9	0.00	10.9	6,717	186,951	193,668	622	6.05	114	211,139

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	5,454	307	6,754	8.59	622	—	622	622	—	622	58,944	312,473	371,417	6.07	5.84	—	373,310
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	1,040,170	1,040,170	71.2	6.41	—	1,043,859
Water	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Waste	—	—	—	—	—	—	—	—	—	—	12,269	0.00	12,269	1,226	0.00	—	42,926
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	5,466	514	6,911	9.85	638	0.00	638	638	0.00	638	83,207	1,415,310	1,498,517	2,537	41.9	688	1,575,134
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	5,131	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	1,040,170	1,040,170	71.2	6.41	—	1,043,859
Water	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Waste	—	—	—	—	—	—	—	—	—	—	12,269	0.00	12,269	1,226	0.00	—	42,926
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	5,143	492	4,638	9.73	635	0.00	635	635	0.00	635	83,207	1,407,274	1,490,481	2,537	41.9	688	1,567,069
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	1,641	34.7	1,864	0.66	44.6	—	44.6	44.0	—	44.0	4,037	26,356	30,393	0.62	0.44	—	30,541
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	1,040,170	1,040,170	71.2	6.41	—	1,043,859
Water	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Waste	—	—	—	—	—	—	—	—	—	—	12,269	0.00	12,269	1,226	0.00	—	42,926
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688

Total	1,653	242	2,020	1.92	60.5	0.00	60.5	60.0	0.00	60.0	28,300	1,129,193	1,157,493	2,532	36.5	688	1,232,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	300	6.33	340	0.12	8.13	—	8.13	8.04	—	8.04	668	4,364	5,032	0.10	0.07	—	5,056
Energy	2.11	37.8	28.5	0.23	2.91	—	2.91	2.91	—	2.91	—	172,212	172,212	11.8	1.06	—	172,823
Water	—	—	—	—	—	—	—	—	—	—	1,986	10,375	12,361	204	4.92	—	18,932
Waste	—	—	—	—	—	—	—	—	—	—	2,031	0.00	2,031	203	0.00	—	7,107
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	114
Total	302	44.2	369	0.35	11.0	0.00	11.0	10.9	0.00	10.9	4,685	186,951	191,636	419	6.05	114	204,032

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	81,404	81,404	5.05	0.61	—	81,713

Office Park	—	—	—	—	—	—	—	—	—	—	—	664,554	664,554	41.2	5.00	—	667,074
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	43,672	43,672	2.71	0.33	—	43,837
High School	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03	< 0.005	< 0.005	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	789,630	789,630	49.0	5.94	—	792,624
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	81,404	81,404	5.05	0.61	—	81,713
Office Park	—	—	—	—	—	—	—	—	—	—	—	664,554	664,554	41.2	5.00	—	667,074
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	43,672	43,672	2.71	0.33	—	43,837
High School	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03	< 0.005	< 0.005	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	789,630	789,630	49.0	5.94	—	792,624
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	13,477	13,477	0.84	0.10	—	13,528
Office Park	—	—	—	—	—	—	—	—	—	—	—	110,025	110,025	6.83	0.83	—	110,442
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,230	7,230	0.45	0.05	—	7,258
High School	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01	< 0.005	< 0.005	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	130,732	130,732	8.11	0.98	—	131,228

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	81,404	81,404	5.05	0.61	—	81,713
Office Park	—	—	—	—	—	—	—	—	—	—	—	664,554	664,554	41.2	5.00	—	667,074
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	43,672	43,672	2.71	0.33	—	43,837
High School	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03	< 0.005	< 0.005	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	789,630	789,630	49.0	5.94	—	792,624
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	81,404	81,404	5.05	0.61	—	81,713
Office Park	—	—	—	—	—	—	—	—	—	—	—	664,554	664,554	41.2	5.00	—	667,074
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	43,672	43,672	2.71	0.33	—	43,837
High School	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03	< 0.005	< 0.005	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	789,630	789,630	49.0	5.94	—	792,624
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	13,477	13,477	0.84	0.10	—	13,528
Office Park	—	—	—	—	—	—	—	—	—	—	—	110,025	110,025	6.83	0.83	—	110,442

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,230	7,230	0.45	0.05	—	7,258
High School	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01	< 0.005	< 0.005	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	130,732	130,732	8.11	0.98	—	131,228

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	2.49	42.6	18.1	0.27	3.45	—	3.45	3.45	—	3.45	—	54,108	54,108	4.79	0.10	—	54,258
Office Park	8.50	154	130	0.93	11.7	—	11.7	11.7	—	11.7	—	184,320	184,320	16.3	0.35	—	184,831
Industrial Park	0.56	10.2	8.53	0.06	0.77	—	0.77	0.77	—	0.77	—	12,113	12,113	1.07	0.02	—	12,146
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	250,540	250,540	22.2	0.47	—	251,235
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	2.49	42.6	18.1	0.27	3.45	—	3.45	3.45	—	3.45	—	54,108	54,108	4.79	0.10	—	54,258
Office Park	8.50	154	130	0.93	11.7	—	11.7	11.7	—	11.7	—	184,320	184,320	16.3	0.35	—	184,831
Industrial Park	0.56	10.2	8.53	0.06	0.77	—	0.77	0.77	—	0.77	—	12,113	12,113	1.07	0.02	—	12,146

High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	250,540	250,540	22.2	0.47	—	251,235
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.46	7.78	3.31	0.05	0.63	—	0.63	0.63	—	0.63	—	8,958	8,958	0.79	0.02	—	8,983
Office Park	1.55	28.2	23.7	0.17	2.14	—	2.14	2.14	—	2.14	—	30,516	30,516	2.70	0.06	—	30,601
Industrial Park	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	2,005	2,005	0.18	< 0.005	—	2,011
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Total	2.11	37.8	28.5	0.23	2.91	—	2.91	2.91	—	2.91	—	41,480	41,480	3.67	0.08	—	41,595

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	2.49	42.6	18.1	0.27	3.45	—	3.45	3.45	—	3.45	—	54,108	54,108	4.79	0.10	—	54,258
Office Park	8.50	154	130	0.93	11.7	—	11.7	11.7	—	11.7	—	184,320	184,320	16.3	0.35	—	184,831
Industrial Park	0.56	10.2	8.53	0.06	0.77	—	0.77	0.77	—	0.77	—	12,113	12,113	1.07	0.02	—	12,146
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	250,540	250,540	22.2	0.47	—	251,235

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	2.49	42.6	18.1	0.27	3.45	—	3.45	3.45	—	3.45	—	54,108	54,108	4.79	0.10	—	54,258
Office Park	8.50	154	130	0.93	11.7	—	11.7	11.7	—	11.7	—	184,320	184,320	16.3	0.35	—	184,831
Industrial Park	0.56	10.2	8.53	0.06	0.77	—	0.77	0.77	—	0.77	—	12,113	12,113	1.07	0.02	—	12,146
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	250,540	250,540	22.2	0.47	—	251,235
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.46	7.78	3.31	0.05	0.63	—	0.63	0.63	—	0.63	—	8,958	8,958	0.79	0.02	—	8,983
Office Park	1.55	28.2	23.7	0.17	2.14	—	2.14	2.14	—	2.14	—	30,516	30,516	2.70	0.06	—	30,601
Industrial Park	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	2,005	2,005	0.18	< 0.005	—	2,011
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Total	2.11	37.8	28.5	0.23	2.91	—	2.91	2.91	—	2.91	—	41,480	41,480	3.67	0.08	—	41,595

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

Hearths	3,984	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Consumer Products	1,039	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	323	22.1	2,273	0.12	3.14	—	3.14	2.37	—	2.37	—	8,036	8,036	0.34	0.07	—	8,065
Total	5,454	307	6,754	8.59	622	—	622	622	—	622	58,944	312,473	371,417	6.07	5.84	—	373,310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3,984	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Consumer Products	1,039	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5,131	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	49.8	3.56	56.0	0.11	7.74	—	7.74	7.74	—	7.74	668	3,452	4,121	0.07	0.07	—	4,142
Consumer Products	190	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	19.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	40.4	2.77	284	0.02	0.39	—	0.39	0.30	—	0.30	—	911	911	0.04	0.01	—	915

Total	300	6.33	340	0.12	8.13	—	8.13	8.04	—	8.04	668	4,364	5,032	0.10	0.07	—	5,056

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3,984	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Consumer Products	1,039	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	323	22.1	2,273	0.12	3.14	—	3.14	2.37	—	2.37	—	8,036	8,036	0.34	0.07	—	8,065
Total	5,454	307	6,754	8.59	622	—	622	622	—	622	58,944	312,473	371,417	6.07	5.84	—	373,310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3,984	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Consumer Products	1,039	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5,131	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	49.8	3.56	56.0	0.11	7.74	—	7.74	7.74	—	7.74	668	3,452	4,121	0.07	0.07	—	4,142

Consumer Products	190	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	19.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	40.4	2.77	284	0.02	0.39	—	0.39	0.30	—	0.30	—	911	911	0.04	0.01	—	915
Total	300	6.33	340	0.12	8.13	—	8.13	8.04	—	8.04	668	4,364	5,032	0.10	0.07	—	5,056

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,215	6,530	7,745	125	3.01	—	11,766
Office Park	—	—	—	—	—	—	—	—	—	—	9,749	50,788	60,537	1,003	24.1	—	92,799
Industrial Park	—	—	—	—	—	—	—	—	—	—	834	4,336	5,170	85.7	2.06	—	7,928
High School	—	—	—	—	—	—	—	—	—	—	196	1,014	1,209	20.1	0.48	—	1,857
Total	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1,215	6,530	7,745	125	3.01	—	11,766
Office Park	—	—	—	—	—	—	—	—	—	—	9,749	50,788	60,537	1,003	24.1	—	92,799
Industrial Park	—	—	—	—	—	—	—	—	—	—	834	4,336	5,170	85.7	2.06	—	7,928
High School	—	—	—	—	—	—	—	—	—	—	196	1,014	1,209	20.1	0.48	—	1,857
Total	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	201	1,081	1,282	20.7	0.50	—	1,948
Office Park	—	—	—	—	—	—	—	—	—	—	1,614	8,408	10,023	166	4.00	—	15,364
Industrial Park	—	—	—	—	—	—	—	—	—	—	138	718	856	14.2	0.34	—	1,313
High School	—	—	—	—	—	—	—	—	—	—	32.4	168	200	3.33	0.08	—	307
Total	—	—	—	—	—	—	—	—	—	—	1,986	10,375	12,361	204	4.92	—	18,932

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,215	6,530	7,745	125	3.01	—	11,766
Office Park	—	—	—	—	—	—	—	—	—	—	9,749	50,788	60,537	1,003	24.1	—	92,799

Industrial Park	—	—	—	—	—	—	—	—	—	—	834	4,336	5,170	85.7	2.06	—	7,928
High School	—	—	—	—	—	—	—	—	—	—	196	1,014	1,209	20.1	0.48	—	1,857
Total	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,215	6,530	7,745	125	3.01	—	11,766
Office Park	—	—	—	—	—	—	—	—	—	—	9,749	50,788	60,537	1,003	24.1	—	92,799
Industrial Park	—	—	—	—	—	—	—	—	—	—	834	4,336	5,170	85.7	2.06	—	7,928
High School	—	—	—	—	—	—	—	—	—	—	196	1,014	1,209	20.1	0.48	—	1,857
Total	—	—	—	—	—	—	—	—	—	—	11,993	62,667	74,661	1,234	29.7	—	114,350
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	201	1,081	1,282	20.7	0.50	—	1,948
Office Park	—	—	—	—	—	—	—	—	—	—	1,614	8,408	10,023	166	4.00	—	15,364
Industrial Park	—	—	—	—	—	—	—	—	—	—	138	718	856	14.2	0.34	—	1,313
High School	—	—	—	—	—	—	—	—	—	—	32.4	168	200	3.33	0.08	—	307
Total	—	—	—	—	—	—	—	—	—	—	1,986	10,375	12,361	204	4.92	—	18,932

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	6,779	0.00	6,779	678	0.00	—	23,717
Office Park	—	—	—	—	—	—	—	—	—	—	14,347	0.00	14,347	1,434	0.00	—	50,196
Industrial Park	—	—	—	—	—	—	—	—	—	—	1,257	0.00	1,257	126	0.00	—	4,398
High School	—	—	—	—	—	—	—	—	—	—	2,156	0.00	2,156	215	0.00	—	7,541
Total	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	6,779	0.00	6,779	678	0.00	—	23,717
Office Park	—	—	—	—	—	—	—	—	—	—	14,347	0.00	14,347	1,434	0.00	—	50,196
Industrial Park	—	—	—	—	—	—	—	—	—	—	1,257	0.00	1,257	126	0.00	—	4,398
High School	—	—	—	—	—	—	—	—	—	—	2,156	0.00	2,156	215	0.00	—	7,541
Total	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,122	0.00	1,122	112	0.00	—	3,927
Office Park	—	—	—	—	—	—	—	—	—	—	2,375	0.00	2,375	237	0.00	—	8,311

Industrial Park	—	—	—	—	—	—	—	—	—	—	208	0.00	208	20.8	0.00	—	728
High School	—	—	—	—	—	—	—	—	—	—	357	0.00	357	35.7	0.00	—	1,249
Total	—	—	—	—	—	—	—	—	—	—	4,063	0.00	4,063	406	0.00	—	14,214

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	3,390	0.00	3,390	339	0.00	—	11,859
Office Park	—	—	—	—	—	—	—	—	—	—	7,174	0.00	7,174	717	0.00	—	25,098
Industrial Park	—	—	—	—	—	—	—	—	—	—	629	0.00	629	62.8	0.00	—	2,199
High School	—	—	—	—	—	—	—	—	—	—	1,078	0.00	1,078	108	0.00	—	3,771
Total	—	—	—	—	—	—	—	—	—	—	12,269	0.00	12,269	1,226	0.00	—	42,926
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	3,390	0.00	3,390	339	0.00	—	11,859
Office Park	—	—	—	—	—	—	—	—	—	—	7,174	0.00	7,174	717	0.00	—	25,098
Industrial Park	—	—	—	—	—	—	—	—	—	—	629	0.00	629	62.8	0.00	—	2,199

High School	—	—	—	—	—	—	—	—	—	—	1,078	0.00	1,078	108	0.00	—	3,771
Total	—	—	—	—	—	—	—	—	—	—	12,269	0.00	12,269	1,226	0.00	—	42,926
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	561	0.00	561	56.1	0.00	—	1,963
Office Park	—	—	—	—	—	—	—	—	—	—	1,188	0.00	1,188	119	0.00	—	4,155
Industrial Park	—	—	—	—	—	—	—	—	—	—	104	0.00	104	10.4	0.00	—	364
High School	—	—	—	—	—	—	—	—	—	—	178	0.00	178	17.8	0.00	—	624
Total	—	—	—	—	—	—	—	—	—	—	2,031	0.00	2,031	203	0.00	—	7,107

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	129
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.6	69.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	490	490
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	129
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.6	69.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	490	490
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.4	21.4
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.5	11.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.1	81.1
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	114

4.6.2. Mitigated

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

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

Condo/To High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	129
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.6	69.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	490	490
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	129
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.6	69.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	490	490
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.4	21.4
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.5	11.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.1	81.1
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	114

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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	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)

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	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)

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	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	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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	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
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse High Rise	—
Wood Fireplaces	851
Gas Fireplaces	14459
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1701

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse High Rise	—
Wood Fireplaces	851
Gas Fireplaces	14459
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1701

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)
36511965	12,170,655	45,759,005	15,253,002	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
Condo/Townhouse High Rise	55,852,227	532	0.0330	0.0040	168,830,355
Office Park	455,958,875	532	0.0330	0.0040	575,127,448
Industrial Park	29,963,572	532	0.0330	0.0040	37,794,795
High School	23.4	532	0.0330	0.0040	69.8

5.11.2. Mitigated

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)
Condo/Townhouse High Rise	55,852,227	532	0.0330	0.0040	168,830,355
Office Park	455,958,875	532	0.0330	0.0040	575,127,448
Industrial Park	29,963,572	532	0.0330	0.0040	37,794,795
High School	23.4	532	0.0330	0.0040	69.8

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse High Rise	634,027,338	30,906,536
Office Park	5,087,610,763	40,145,230
Industrial Park	435,004,375	2,638,164
High School	102,157,395	10.9

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse High Rise	634,027,338	30,906,536
Office Park	5,087,610,763	40,145,230
Industrial Park	435,004,375	2,638,164
High School	102,157,395	10.9

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Condo/Townhouse High Rise	12,578	—
Office Park	26,621	—
Industrial Park	2,333	—
High School	4,000	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse High Rise	6,289	—
Office Park	13,311	—
Industrial Park	1,166	—
High School	2,000	—

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
Condo/Townhouse High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	—	annual days of extreme heat
Extreme Precipitation	—	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth

Wildfire	—	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	45.0
AQ-PM	68.0
AQ-DPM	91.2
Drinking Water	61.5
Lead Risk Housing	64.6
Pesticides	17.7
Toxic Releases	79.4
Traffic	68.5

Effect Indicators	—
CleanUp Sites	88.6
Groundwater	92.5
Haz Waste Facilities/Generators	91.0
Impaired Water Bodies	66.7
Solid Waste	93.4
Sensitive Population	—
Asthma	45.1
Cardio-vascular	53.6
Low Birth Weights	37.6
Socioeconomic Factor Indicators	—
Education	19.3
Housing	58.8
Linguistic	42.1
Poverty	27.9
Unemployment	23.8

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	83.72898755
Employed	79.36609778
Median HI	78.76299243
Education	—
Bachelor's or higher	79.63557038
High school enrollment	100

Preschool enrollment	40.65186706
Transportation	—
Auto Access	46.70858463
Active commuting	73.66867702
Social	—
2-parent households	44.68112409
Voting	75.93994611
Neighborhood	—
Alcohol availability	33.40177082
Park access	81.35506224
Retail density	65.99512383
Supermarket access	75.70896959
Tree canopy	71.79520082
Housing	—
Homeownership	30.71987681
Housing habitability	49.09534197
Low-inc homeowner severe housing cost burden	67.79160785
Low-inc renter severe housing cost burden	74.88771975
Uncrowded housing	53.4838958
Health Outcomes	—
Insured adults	78.05723085
Arthritis	0.0
Asthma ER Admissions	64.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	35.0
Cognitively Disabled	36.6
Physically Disabled	63.7
Heart Attack ER Admissions	49.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.1
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	61.0
Elderly	47.3
English Speaking	58.4
Foreign-born	48.4
Outdoor Workers	81.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	72.7

Traffic Access	74.7
Other Indices	—
Hardship	15.8
Other Decision Support	—
2016 Voting	56.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	68.0
Healthy Places Index Score for Project Location (b)	77.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	The land uses selected are used for modeling purposes only to represent the emissions for the GP 2045 PEIR (see Table 2-4).

Operations: Fleet Mix	All trips and VMT to be provided by EMFAC.
Operations: Vehicle EF	All trips and VMT to be provided by EMFAC.
Operations: Road Dust	All trips and VMT to be provided by EMFAC.
Operations: Hearths	Modern woodstove.

Culver City Existing Scenario Run (2045) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Culver City Existing Scenario Run (2045)
Operational Year	2045
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	8.20
Location	Culver City, CA, USA
County	Los Angeles-South Coast
City	Culver City
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4457
EDFZ	16
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

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
Condo/Townhouse High Rise	17,010	Dwelling Unit	1,408	18,030,600	1,803,060	—	50,350	—

Office Park	28,625	1000sqft	6,501	28,624,900	2,862,490	—	—	—
Industrial Park	1,881	1000sqft	227	1,881,100	188,110	—	—	—
High School	3,077	1000sqft	3.50	3.50	0.35	0.35	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5,445	512	6,934	9.85	638	0.00	638	637	0.00	637	95,477	980,546	1,076,022	3,763	41.9	688	1,183,293
Mit.	5,445	512	6,934	9.85	638	0.00	638	637	0.00	637	77,072	980,546	1,057,618	1,924	41.9	688	1,118,904
% Reduced	—	—	—	—	—	—	—	—	—	—	19%	—	2%	49%	—	—	5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5,143	492	4,638	9.73	635	0.00	635	635	0.00	635	95,477	972,509	1,067,986	3,763	41.9	688	1,175,229
Mit.	5,143	492	4,638	9.73	635	0.00	635	635	0.00	635	77,072	972,509	1,049,582	1,924	41.9	688	1,110,839
% Reduced	—	—	—	—	—	—	—	—	—	—	19%	—	2%	49%	—	—	5%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1,638	241	2,036	1.92	60.3	0.00	60.3	59.8	0.00	59.8	40,569	694,429	734,998	3,758	36.5	688	840,524
Mit.	1,638	241	2,036	1.92	60.3	0.00	60.3	59.8	0.00	59.8	22,165	694,429	716,594	1,919	36.5	688	776,135
% Reduced	—	—	—	—	—	—	—	—	—	—	45%	—	3%	49%	—	—	8%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	299	43.9	372	0.35	11.0	0.00	11.0	10.9	0.00	10.9	6,717	114,971	121,687	622	6.05	114	139,158
Mit.	299	43.9	372	0.35	11.0	0.00	11.0	10.9	0.00	10.9	3,670	114,971	118,640	318	6.05	114	128,498
% Reduced	—	—	—	—	—	—	—	—	—	—	45%	—	3%	49%	—	—	8%

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	5,433	305	6,778	8.59	622	—	622	621	—	621	58,944	312,473	371,417	6.07	5.84	—	373,310
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	637,632	637,632	71.2	6.41	—	641,320
Water	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Waste	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	5,445	512	6,934	9.85	638	0.00	638	637	0.00	637	95,477	980,546	1,076,022	3,763	41.9	688	1,183,293
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	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
Area	5,131	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	637,632	637,632	71.2	6.41	—	641,320
Water	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Waste	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	5,143	492	4,638	9.73	635	0.00	635	635	0.00	635	95,477	972,509	1,067,986	3,763	41.9	688	1,175,229
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	1,627	33.3	1,880	0.66	44.3	—	44.3	43.9	—	43.9	4,037	26,356	30,393	0.62	0.44	—	30,541
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	637,632	637,632	71.2	6.41	—	641,320
Water	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Waste	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	1,638	241	2,036	1.92	60.3	0.00	60.3	59.8	0.00	59.8	40,569	694,429	734,998	3,758	36.5	688	840,524
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	297	6.07	343	0.12	8.09	—	8.09	8.00	—	8.00	668	4,364	5,032	0.10	0.07	—	5,056
Energy	2.11	37.8	28.5	0.23	2.91	—	2.91	2.91	—	2.91	—	105,567	105,567	11.8	1.06	—	106,178
Water	—	—	—	—	—	—	—	—	—	—	1,986	5,040	7,026	204	4.91	—	13,596
Waste	—	—	—	—	—	—	—	—	—	—	4,063	0.00	4,063	406	0.00	—	14,214
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	114
Total	299	43.9	372	0.35	11.0	0.00	11.0	10.9	0.00	10.9	6,717	114,971	121,687	622	6.05	114	139,158

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	5,433	305	6,778	8.59	622	—	622	621	—	621	58,944	312,473	371,417	6.07	5.84	—	373,310
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	637,632	637,632	71.2	6.41	—	641,320
Water	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Waste	—	—	—	—	—	—	—	—	—	—	6,135	0.00	6,135	613	0.00	—	21,463
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	5,445	512	6,934	9.85	638	0.00	638	637	0.00	637	77,072	980,546	1,057,618	1,924	41.9	688	1,118,904
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	5,131	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	637,632	637,632	71.2	6.41	—	641,320
Water	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Waste	—	—	—	—	—	—	—	—	—	—	6,135	0.00	6,135	613	0.00	—	21,463
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Total	5,143	492	4,638	9.73	635	0.00	635	635	0.00	635	77,072	972,509	1,049,582	1,924	41.9	688	1,110,839
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	1,627	33.3	1,880	0.66	44.3	—	44.3	43.9	—	43.9	4,037	26,356	30,393	0.62	0.44	—	30,541
Energy	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	637,632	637,632	71.2	6.41	—	641,320
Water	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Waste	—	—	—	—	—	—	—	—	—	—	6,135	0.00	6,135	613	0.00	—	21,463
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688

Total	1,638	241	2,036	1.92	60.3	0.00	60.3	59.8	0.00	59.8	22,165	694,429	716,594	1,919	36.5	688	776,135
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	297	6.07	343	0.12	8.09	—	8.09	8.00	—	8.00	668	4,364	5,032	0.10	0.07	—	5,056
Energy	2.11	37.8	28.5	0.23	2.91	—	2.91	2.91	—	2.91	—	105,567	105,567	11.8	1.06	—	106,178
Water	—	—	—	—	—	—	—	—	—	—	1,986	5,040	7,026	204	4.91	—	13,596
Waste	—	—	—	—	—	—	—	—	—	—	1,016	0.00	1,016	102	0.00	—	3,553
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	114
Total	299	43.9	372	0.35	11.0	0.00	11.0	10.9	0.00	10.9	3,670	114,971	118,640	318	6.05	114	128,498

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	39,906	39,906	5.05	0.61	—	40,214

Office Park	—	—	—	—	—	—	—	—	—	—	—	325,777	325,777	41.2	5.00	—	328,297
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	21,409	21,409	2.71	0.33	—	21,574
High School	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	387,091	387,091	49.0	5.94	—	390,085
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	39,906	39,906	5.05	0.61	—	40,214
Office Park	—	—	—	—	—	—	—	—	—	—	—	325,777	325,777	41.2	5.00	—	328,297
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	21,409	21,409	2.71	0.33	—	21,574
High School	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	387,091	387,091	49.0	5.94	—	390,085
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	6,607	6,607	0.84	0.10	—	6,658
Office Park	—	—	—	—	—	—	—	—	—	—	—	53,936	53,936	6.83	0.83	—	54,353
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	3,544	3,544	0.45	0.05	—	3,572
High School	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	64,087	64,087	8.11	0.98	—	64,583

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	39,906	39,906	5.05	0.61	—	40,214
Office Park	—	—	—	—	—	—	—	—	—	—	—	325,777	325,777	41.2	5.00	—	328,297
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	21,409	21,409	2.71	0.33	—	21,574
High School	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	387,091	387,091	49.0	5.94	—	390,085
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	39,906	39,906	5.05	0.61	—	40,214
Office Park	—	—	—	—	—	—	—	—	—	—	—	325,777	325,777	41.2	5.00	—	328,297
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	21,409	21,409	2.71	0.33	—	21,574
High School	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	387,091	387,091	49.0	5.94	—	390,085
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	6,607	6,607	0.84	0.10	—	6,658
Office Park	—	—	—	—	—	—	—	—	—	—	—	53,936	53,936	6.83	0.83	—	54,353

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	3,544	3,544	0.45	0.05	—	3,572
High School	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	64,087	64,087	8.11	0.98	—	64,583

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	2.49	42.6	18.1	0.27	3.45	—	3.45	3.45	—	3.45	—	54,108	54,108	4.79	0.10	—	54,258
Office Park	8.50	154	130	0.93	11.7	—	11.7	11.7	—	11.7	—	184,320	184,320	16.3	0.35	—	184,831
Industrial Park	0.56	10.2	8.53	0.06	0.77	—	0.77	0.77	—	0.77	—	12,113	12,113	1.07	0.02	—	12,146
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	250,540	250,540	22.2	0.47	—	251,235
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	2.49	42.6	18.1	0.27	3.45	—	3.45	3.45	—	3.45	—	54,108	54,108	4.79	0.10	—	54,258
Office Park	8.50	154	130	0.93	11.7	—	11.7	11.7	—	11.7	—	184,320	184,320	16.3	0.35	—	184,831
Industrial Park	0.56	10.2	8.53	0.06	0.77	—	0.77	0.77	—	0.77	—	12,113	12,113	1.07	0.02	—	12,146

High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	250,540	250,540	22.2	0.47	—	251,235
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.46	7.78	3.31	0.05	0.63	—	0.63	0.63	—	0.63	—	8,958	8,958	0.79	0.02	—	8,983
Office Park	1.55	28.2	23.7	0.17	2.14	—	2.14	2.14	—	2.14	—	30,516	30,516	2.70	0.06	—	30,601
Industrial Park	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	2,005	2,005	0.18	< 0.005	—	2,011
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Total	2.11	37.8	28.5	0.23	2.91	—	2.91	2.91	—	2.91	—	41,480	41,480	3.67	0.08	—	41,595

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	2.49	42.6	18.1	0.27	3.45	—	3.45	3.45	—	3.45	—	54,108	54,108	4.79	0.10	—	54,258
Office Park	8.50	154	130	0.93	11.7	—	11.7	11.7	—	11.7	—	184,320	184,320	16.3	0.35	—	184,831
Industrial Park	0.56	10.2	8.53	0.06	0.77	—	0.77	0.77	—	0.77	—	12,113	12,113	1.07	0.02	—	12,146
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	250,540	250,540	22.2	0.47	—	251,235

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	2.49	42.6	18.1	0.27	3.45	—	3.45	3.45	—	3.45	—	54,108	54,108	4.79	0.10	—	54,258
Office Park	8.50	154	130	0.93	11.7	—	11.7	11.7	—	11.7	—	184,320	184,320	16.3	0.35	—	184,831
Industrial Park	0.56	10.2	8.53	0.06	0.77	—	0.77	0.77	—	0.77	—	12,113	12,113	1.07	0.02	—	12,146
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	11.5	207	156	1.26	16.0	—	16.0	16.0	—	16.0	—	250,540	250,540	22.2	0.47	—	251,235
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.46	7.78	3.31	0.05	0.63	—	0.63	0.63	—	0.63	—	8,958	8,958	0.79	0.02	—	8,983
Office Park	1.55	28.2	23.7	0.17	2.14	—	2.14	2.14	—	2.14	—	30,516	30,516	2.70	0.06	—	30,601
Industrial Park	0.10	1.85	1.56	0.01	0.14	—	0.14	0.14	—	0.14	—	2,005	2,005	0.18	< 0.005	—	2,011
High School	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005
Total	2.11	37.8	28.5	0.23	2.91	—	2.91	2.91	—	2.91	—	41,480	41,480	3.67	0.08	—	41,595

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

Hearths	3,984	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Consumer Products	1,039	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	302	20.1	2,297	0.12	2.79	—	2.79	2.11	—	2.11	—	8,036	8,036	0.34	0.07	—	8,065
Total	5,433	305	6,778	8.59	622	—	622	621	—	621	58,944	312,473	371,417	6.07	5.84	—	373,310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3,984	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Consumer Products	1,039	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5,131	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	49.8	3.56	56.0	0.11	7.74	—	7.74	7.74	—	7.74	668	3,452	4,121	0.07	0.07	—	4,142
Consumer Products	190	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	19.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	37.7	2.51	287	0.02	0.35	—	0.35	0.26	—	0.26	—	911	911	0.04	0.01	—	915

Total	297	6.07	343	0.12	8.09	—	8.09	8.00	—	8.00	668	4,364	5,032	0.10	0.07	—	5,056

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3,984	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Consumer Products	1,039	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	302	20.1	2,297	0.12	2.79	—	2.79	2.11	—	2.11	—	8,036	8,036	0.34	0.07	—	8,065
Total	5,433	305	6,778	8.59	622	—	622	621	—	621	58,944	312,473	371,417	6.07	5.84	—	373,310
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	3,984	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Consumer Products	1,039	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5,131	285	4,481	8.47	619	—	619	619	—	619	58,944	304,437	363,381	5.73	5.77	—	365,245
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	49.8	3.56	56.0	0.11	7.74	—	7.74	7.74	—	7.74	668	3,452	4,121	0.07	0.07	—	4,142

Consumer Products	190	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	19.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	37.7	2.51	287	0.02	0.35	—	0.35	0.26	—	0.26	—	911	911	0.04	0.01	—	915
Total	297	6.07	343	0.12	8.09	—	8.09	8.00	—	8.00	668	4,364	5,032	0.10	0.07	—	5,056

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,215	3,084	4,299	125	3.01	—	8,319
Office Park	—	—	—	—	—	—	—	—	—	—	9,749	24,745	34,494	1,003	24.1	—	66,755
Industrial Park	—	—	—	—	—	—	—	—	—	—	834	2,116	2,949	85.7	2.06	—	5,708
High School	—	—	—	—	—	—	—	—	—	—	196	497	693	20.1	0.48	—	1,340
Total	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1,215	3,084	4,299	125	3.01	—	8,319
Office Park	—	—	—	—	—	—	—	—	—	—	9,749	24,745	34,494	1,003	24.1	—	66,755
Industrial Park	—	—	—	—	—	—	—	—	—	—	834	2,116	2,949	85.7	2.06	—	5,708
High School	—	—	—	—	—	—	—	—	—	—	196	497	693	20.1	0.48	—	1,340
Total	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	201	511	712	20.7	0.50	—	1,377
Office Park	—	—	—	—	—	—	—	—	—	—	1,614	4,097	5,711	166	4.00	—	11,052
Industrial Park	—	—	—	—	—	—	—	—	—	—	138	350	488	14.2	0.34	—	945
High School	—	—	—	—	—	—	—	—	—	—	32.4	82.3	115	3.33	0.08	—	222
Total	—	—	—	—	—	—	—	—	—	—	1,986	5,040	7,026	204	4.91	—	13,596

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,215	3,084	4,299	125	3.01	—	8,319
Office Park	—	—	—	—	—	—	—	—	—	—	9,749	24,745	34,494	1,003	24.1	—	66,755

Industrial Park	—	—	—	—	—	—	—	—	—	—	834	2,116	2,949	85.7	2.06	—	5,708
High School	—	—	—	—	—	—	—	—	—	—	196	497	693	20.1	0.48	—	1,340
Total	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,215	3,084	4,299	125	3.01	—	8,319
Office Park	—	—	—	—	—	—	—	—	—	—	9,749	24,745	34,494	1,003	24.1	—	66,755
Industrial Park	—	—	—	—	—	—	—	—	—	—	834	2,116	2,949	85.7	2.06	—	5,708
High School	—	—	—	—	—	—	—	—	—	—	196	497	693	20.1	0.48	—	1,340
Total	—	—	—	—	—	—	—	—	—	—	11,993	30,441	42,435	1,234	29.7	—	82,122
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	201	511	712	20.7	0.50	—	1,377
Office Park	—	—	—	—	—	—	—	—	—	—	1,614	4,097	5,711	166	4.00	—	11,052
Industrial Park	—	—	—	—	—	—	—	—	—	—	138	350	488	14.2	0.34	—	945
High School	—	—	—	—	—	—	—	—	—	—	32.4	82.3	115	3.33	0.08	—	222
Total	—	—	—	—	—	—	—	—	—	—	1,986	5,040	7,026	204	4.91	—	13,596

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	6,779	0.00	6,779	678	0.00	—	23,717
Office Park	—	—	—	—	—	—	—	—	—	—	14,347	0.00	14,347	1,434	0.00	—	50,196
Industrial Park	—	—	—	—	—	—	—	—	—	—	1,257	0.00	1,257	126	0.00	—	4,398
High School	—	—	—	—	—	—	—	—	—	—	2,156	0.00	2,156	215	0.00	—	7,541
Total	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	6,779	0.00	6,779	678	0.00	—	23,717
Office Park	—	—	—	—	—	—	—	—	—	—	14,347	0.00	14,347	1,434	0.00	—	50,196
Industrial Park	—	—	—	—	—	—	—	—	—	—	1,257	0.00	1,257	126	0.00	—	4,398
High School	—	—	—	—	—	—	—	—	—	—	2,156	0.00	2,156	215	0.00	—	7,541
Total	—	—	—	—	—	—	—	—	—	—	24,539	0.00	24,539	2,453	0.00	—	85,853
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,122	0.00	1,122	112	0.00	—	3,927
Office Park	—	—	—	—	—	—	—	—	—	—	2,375	0.00	2,375	237	0.00	—	8,311

Industrial Park	—	—	—	—	—	—	—	—	—	—	208	0.00	208	20.8	0.00	—	728
High School	—	—	—	—	—	—	—	—	—	—	357	0.00	357	35.7	0.00	—	1,249
Total	—	—	—	—	—	—	—	—	—	—	4,063	0.00	4,063	406	0.00	—	14,214

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,695	0.00	1,695	169	0.00	—	5,929
Office Park	—	—	—	—	—	—	—	—	—	—	3,587	0.00	3,587	358	0.00	—	12,549
Industrial Park	—	—	—	—	—	—	—	—	—	—	314	0.00	314	31.4	0.00	—	1,100
High School	—	—	—	—	—	—	—	—	—	—	539	0.00	539	53.9	0.00	—	1,885
Total	—	—	—	—	—	—	—	—	—	—	6,135	0.00	6,135	613	0.00	—	21,463
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	1,695	0.00	1,695	169	0.00	—	5,929
Office Park	—	—	—	—	—	—	—	—	—	—	3,587	0.00	3,587	358	0.00	—	12,549
Industrial Park	—	—	—	—	—	—	—	—	—	—	314	0.00	314	31.4	0.00	—	1,100

High School	—	—	—	—	—	—	—	—	—	—	539	0.00	539	53.9	0.00	—	1,885
Total	—	—	—	—	—	—	—	—	—	—	6,135	0.00	6,135	613	0.00	—	21,463
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	281	0.00	281	28.0	0.00	—	982
Office Park	—	—	—	—	—	—	—	—	—	—	594	0.00	594	59.4	0.00	—	2,078
Industrial Park	—	—	—	—	—	—	—	—	—	—	52.0	0.00	52.0	5.20	0.00	—	182
High School	—	—	—	—	—	—	—	—	—	—	89.2	0.00	89.2	8.92	0.00	—	312
Total	—	—	—	—	—	—	—	—	—	—	1,016	0.00	1,016	102	0.00	—	3,553

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	129
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.6	69.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	490	490
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	129
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.6	69.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	490	490
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.4	21.4
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.5	11.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.1	81.1
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	114

4.6.2. Mitigated

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

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

Condo/To High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	129
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.6	69.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	490	490
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	129	129
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	69.6	69.6
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	490	490
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	688	688
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.4	21.4
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.5	11.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	81.1	81.1
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	114	114

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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	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)

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	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)

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	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	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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	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
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse High Rise	—
Wood Fireplaces	851
Gas Fireplaces	14459
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1701

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse High Rise	—
Wood Fireplaces	851
Gas Fireplaces	14459
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1701

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)
36511965	12,170,655	45,759,005	15,253,002	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
Condo/Townhouse High Rise	55,852,227	261	0.0330	0.0040	168,830,355
Office Park	455,958,875	261	0.0330	0.0040	575,127,448
Industrial Park	29,963,572	261	0.0330	0.0040	37,794,795
High School	23.4	261	0.0330	0.0040	69.8

5.11.2. Mitigated

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)
Condo/Townhouse High Rise	55,852,227	261	0.0330	0.0040	168,830,355
Office Park	455,958,875	261	0.0330	0.0040	575,127,448
Industrial Park	29,963,572	261	0.0330	0.0040	37,794,795
High School	23.4	261	0.0330	0.0040	69.8

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse High Rise	634,027,338	0.00
Office Park	5,087,610,763	0.00
Industrial Park	435,004,375	0.00
High School	102,157,395	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse High Rise	634,027,338	0.00
Office Park	5,087,610,763	0.00
Industrial Park	435,004,375	0.00
High School	102,157,395	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

Condo/Townhouse High Rise	12,578	—
Office Park	26,621	—
Industrial Park	2,333	—
High School	4,000	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse High Rise	3,145	—
Office Park	6,655	—
Industrial Park	583	—
High School	1,000	—

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
Condo/Townhouse High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	—	annual days of extreme heat
Extreme Precipitation	—	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth

Wildfire	—	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	45.0
AQ-PM	68.0
AQ-DPM	91.2
Drinking Water	61.5
Lead Risk Housing	64.6
Pesticides	17.7
Toxic Releases	79.4
Traffic	68.5

Effect Indicators	—
CleanUp Sites	88.6
Groundwater	92.5
Haz Waste Facilities/Generators	91.0
Impaired Water Bodies	66.7
Solid Waste	93.4
Sensitive Population	—
Asthma	45.1
Cardio-vascular	53.6
Low Birth Weights	37.6
Socioeconomic Factor Indicators	—
Education	19.3
Housing	58.8
Linguistic	42.1
Poverty	27.9
Unemployment	23.8

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	83.72898755
Employed	79.36609778
Median HI	78.76299243
Education	—
Bachelor's or higher	79.63557038
High school enrollment	100

Preschool enrollment	40.65186706
Transportation	—
Auto Access	46.70858463
Active commuting	73.66867702
Social	—
2-parent households	44.68112409
Voting	75.93994611
Neighborhood	—
Alcohol availability	33.40177082
Park access	81.35506224
Retail density	65.99512383
Supermarket access	75.70896959
Tree canopy	71.79520082
Housing	—
Homeownership	30.71987681
Housing habitability	49.09534197
Low-inc homeowner severe housing cost burden	67.79160785
Low-inc renter severe housing cost burden	74.88771975
Uncrowded housing	53.4838958
Health Outcomes	—
Insured adults	78.05723085
Arthritis	0.0
Asthma ER Admissions	64.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	35.0
Cognitively Disabled	36.6
Physically Disabled	63.7
Heart Attack ER Admissions	49.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.1
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	61.0
Elderly	47.3
English Speaking	58.4
Foreign-born	48.4
Outdoor Workers	81.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	72.7

Traffic Access	74.7
Other Indices	—
Hardship	15.8
Other Decision Support	—
2016 Voting	56.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	68.0
Healthy Places Index Score for Project Location (b)	77.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	The land uses selected are used for modeling purposes only to represent the emissions for the GP 2045 PEIR (see Table 2-4).

Operations: Fleet Mix	All trips and VMT to be provided by EMFAC.
Operations: Vehicle EF	All trips and VMT to be provided by EMFAC.
Operations: Road Dust	All trips and VMT to be provided by EMFAC.
Operations: Hearths	Modern woodstove.

Culver City New Development Run (2045) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Culver City New Development Run (2045)
Operational Year	2045
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	2.70
Precipitation (days)	8.20
Location	Culver City, CA, USA
County	Los Angeles-South Coast
City	Culver City
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4457
EDFZ	16
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

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
Condo/Townhouse	12,700	Dwelling Unit	1.05	13,462,000	1,346,200	—	37,592	—

Office Park	5,968	1000sqft	104	5,968,000	596,800	—	—	—
Industrial Park	680	1000sqft	81.9	680,000	68,000	—	—	—
High School	0.00	1000sqft	3.50	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	588	136	1,082	0.84	10.9	0.00	10.9	10.7	0.00	10.7	11,748	281,026	292,774	1,211	10.1	288	326,332
Mit.	588	136	1,082	0.84	10.9	0.00	10.9	10.7	0.00	10.7	9,164	281,026	290,190	953	10.1	288	317,291
% Reduced	—	—	—	—	—	—	—	—	—	—	22%	—	1%	21%	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	478	127	68.8	0.79	10.1	0.00	10.1	10.1	0.00	10.1	11,748	277,911	289,659	1,211	10.0	288	323,206
Mit.	478	127	68.8	0.79	10.1	0.00	10.1	10.1	0.00	10.1	9,164	277,911	287,074	953	10.0	288	314,164
% Reduced	—	—	—	—	—	—	—	—	—	—	22%	—	1%	21%	—	—	3%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	552	123	759	0.77	9.85	0.00	9.85	9.71	0.00	9.71	11,748	267,590	279,338	1,211	10.0	288	312,880
Mit.	552	123	759	0.77	9.85	0.00	9.85	9.71	0.00	9.71	9,164	267,590	276,754	952	10.0	288	303,838
% Reduced	—	—	—	—	—	—	—	—	—	—	22%	—	1%	21%	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	101	22.5	138	0.14	1.80	0.00	1.80	1.77	0.00	1.77	1,945	44,303	46,248	200	1.66	47.7	51,801
Mit.	101	22.5	138	0.14	1.80	0.00	1.80	1.77	0.00	1.77	1,517	44,303	45,820	158	1.66	47.7	50,304
% Reduced	—	—	—	—	—	—	—	—	—	—	22%	—	1%	21%	—	—	3%

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	581	19.6	1,018	0.12	1.69	—	1.69	1.48	—	1.48	0.00	16,486	16,486	0.38	0.05	—	16,511
Energy	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	256,191	256,191	26.9	1.98	—	257,455
Water	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Waste	—	—	—	—	—	—	—	—	—	—	8,507	0.00	8,507	850	0.00	—	29,763
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Total	588	136	1,082	0.84	10.9	0.00	10.9	10.7	0.00	10.7	11,748	281,026	292,774	1,211	10.1	288	326,332
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	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
Area	471	10.5	4.48	0.07	0.85	—	0.85	0.85	—	0.85	0.00	13,370	13,370	0.25	0.03	—	13,384
Energy	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	256,191	256,191	26.9	1.98	—	257,455
Water	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Waste	—	—	—	—	—	—	—	—	—	—	8,507	0.00	8,507	850	0.00	—	29,763
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Total	478	127	68.8	0.79	10.1	0.00	10.1	10.1	0.00	10.1	11,748	277,911	289,659	1,211	10.0	288	323,206
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	546	6.94	694	0.04	0.63	—	0.63	0.49	—	0.49	0.00	3,050	3,050	0.11	0.02	—	3,058
Energy	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	256,191	256,191	26.9	1.98	—	257,455
Water	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Waste	—	—	—	—	—	—	—	—	—	—	8,507	0.00	8,507	850	0.00	—	29,763
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Total	552	123	759	0.77	9.85	0.00	9.85	9.71	0.00	9.71	11,748	267,590	279,338	1,211	10.0	288	312,880
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	99.6	1.27	127	0.01	0.12	—	0.12	0.09	—	0.09	0.00	505	505	0.02	< 0.005	—	506
Energy	1.22	21.2	11.7	0.13	1.68	—	1.68	1.68	—	1.68	—	42,415	42,415	4.46	0.33	—	42,625
Water	—	—	—	—	—	—	—	—	—	—	537	1,382	1,919	55.2	1.33	—	3,695
Waste	—	—	—	—	—	—	—	—	—	—	1,408	0.00	1,408	141	0.00	—	4,928
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.7	47.7
Total	101	22.5	138	0.14	1.80	0.00	1.80	1.77	0.00	1.77	1,945	44,303	46,248	200	1.66	47.7	51,801

2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	581	19.6	1,018	0.12	1.69	—	1.69	1.48	—	1.48	0.00	16,486	16,486	0.38	0.05	—	16,511
Energy	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	256,191	256,191	26.9	1.98	—	257,455
Water	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Waste	—	—	—	—	—	—	—	—	—	—	5,923	0.00	5,923	592	0.00	—	20,722
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Total	588	136	1,082	0.84	10.9	0.00	10.9	10.7	0.00	10.7	9,164	281,026	290,190	953	10.1	288	317,291
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	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
Area	471	10.5	4.48	0.07	0.85	—	0.85	0.85	—	0.85	0.00	13,370	13,370	0.25	0.03	—	13,384
Energy	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	256,191	256,191	26.9	1.98	—	257,455
Water	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Waste	—	—	—	—	—	—	—	—	—	—	5,923	0.00	5,923	592	0.00	—	20,722
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Total	478	127	68.8	0.79	10.1	0.00	10.1	10.1	0.00	10.1	9,164	277,911	287,074	953	10.0	288	314,164
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	546	6.94	694	0.04	0.63	—	0.63	0.49	—	0.49	0.00	3,050	3,050	0.11	0.02	—	3,058
Energy	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	256,191	256,191	26.9	1.98	—	257,455
Water	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Waste	—	—	—	—	—	—	—	—	—	—	5,923	0.00	5,923	592	0.00	—	20,722
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288

Total	552	123	759	0.77	9.85	0.00	9.85	9.71	0.00	9.71	9,164	267,590	276,754	952	10.0	288	303,838
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Area	99.6	1.27	127	0.01	0.12	—	0.12	0.09	—	0.09	0.00	505	505	0.02	< 0.005	—	506
Energy	1.22	21.2	11.7	0.13	1.68	—	1.68	1.68	—	1.68	—	42,415	42,415	4.46	0.33	—	42,625
Water	—	—	—	—	—	—	—	—	—	—	537	1,382	1,919	55.2	1.33	—	3,695
Waste	—	—	—	—	—	—	—	—	—	—	981	0.00	981	98.0	0.00	—	3,431
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.7	47.7
Total	101	22.5	138	0.14	1.80	0.00	1.80	1.77	0.00	1.77	1,517	44,303	45,820	158	1.66	47.7	50,304

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	35,819	35,819	4.53	0.55	—	36,096

Office Park	—	—	—	—	—	—	—	—	—	—	—	67,921	67,921	8.59	1.04	—	68,447
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,739	7,739	0.98	0.12	—	7,799
High School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	111,479	111,479	14.1	1.71	—	112,341
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	35,819	35,819	4.53	0.55	—	36,096
Office Park	—	—	—	—	—	—	—	—	—	—	—	67,921	67,921	8.59	1.04	—	68,447
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,739	7,739	0.98	0.12	—	7,799
High School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	111,479	111,479	14.1	1.71	—	112,341
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	5,930	5,930	0.75	0.09	—	5,976
Office Park	—	—	—	—	—	—	—	—	—	—	—	11,245	11,245	1.42	0.17	—	11,332
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,281	1,281	0.16	0.02	—	1,291
High School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	18,457	18,457	2.34	0.28	—	18,599

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	35,819	35,819	4.53	0.55	—	36,096
Office Park	—	—	—	—	—	—	—	—	—	—	—	67,921	67,921	8.59	1.04	—	68,447
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,739	7,739	0.98	0.12	—	7,799
High School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	111,479	111,479	14.1	1.71	—	112,341
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	35,819	35,819	4.53	0.55	—	36,096
Office Park	—	—	—	—	—	—	—	—	—	—	—	67,921	67,921	8.59	1.04	—	68,447
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	7,739	7,739	0.98	0.12	—	7,799
High School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	111,479	111,479	14.1	1.71	—	112,341
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	5,930	5,930	0.75	0.09	—	5,976
Office Park	—	—	—	—	—	—	—	—	—	—	—	11,245	11,245	1.42	0.17	—	11,332
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	1,281	1,281	0.16	0.02	—	1,291

High School	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	18,457	18,457	2.34	0.28	—	18,599

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	4.70	80.3	34.2	0.51	6.49	—	6.49	6.49	—	6.49	—	101,905	101,905	9.02	0.19	—	102,187
Office Park	1.77	32.2	27.1	0.19	2.45	—	2.45	2.45	—	2.45	—	38,429	38,429	3.40	0.07	—	38,535
Industrial Park	0.20	3.67	3.08	0.02	0.28	—	0.28	0.28	—	0.28	—	4,379	4,379	0.39	0.01	—	4,391
High School	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	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	144,712	144,712	12.8	0.27	—	145,114
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	4.70	80.3	34.2	0.51	6.49	—	6.49	6.49	—	6.49	—	101,905	101,905	9.02	0.19	—	102,187
Office Park	1.77	32.2	27.1	0.19	2.45	—	2.45	2.45	—	2.45	—	38,429	38,429	3.40	0.07	—	38,535
Industrial Park	0.20	3.67	3.08	0.02	0.28	—	0.28	0.28	—	0.28	—	4,379	4,379	0.39	0.01	—	4,391
High School	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	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	144,712	144,712	12.8	0.27	—	145,114
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/To	0.86	14.7	6.23	0.09	1.18	—	1.18	1.18	—	1.18	—	16,872	16,872	1.49	0.03	—	16,918
Office Park	0.32	5.88	4.94	0.04	0.45	—	0.45	0.45	—	0.45	—	6,362	6,362	0.56	0.01	—	6,380
Industrial Park	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	—	725	725	0.06	< 0.005	—	727
High School	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	1.22	21.2	11.7	0.13	1.68	—	1.68	1.68	—	1.68	—	23,959	23,959	2.12	0.05	—	24,025

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	4.70	80.3	34.2	0.51	6.49	—	6.49	6.49	—	6.49	—	101,905	101,905	9.02	0.19	—	102,187
Office Park	1.77	32.2	27.1	0.19	2.45	—	2.45	2.45	—	2.45	—	38,429	38,429	3.40	0.07	—	38,535
Industrial Park	0.20	3.67	3.08	0.02	0.28	—	0.28	0.28	—	0.28	—	4,379	4,379	0.39	0.01	—	4,391
High School	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	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	144,712	144,712	12.8	0.27	—	145,114
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	4.70	80.3	34.2	0.51	6.49	—	6.49	6.49	—	6.49	—	101,905	101,905	9.02	0.19	—	102,187
Office Park	1.77	32.2	27.1	0.19	2.45	—	2.45	2.45	—	2.45	—	38,429	38,429	3.40	0.07	—	38,535

Industrial Park	0.20	3.67	3.08	0.02	0.28	—	0.28	0.28	—	0.28	—	4,379	4,379	0.39	0.01	—	4,391
High School	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	6.67	116	64.3	0.73	9.22	—	9.22	9.22	—	9.22	—	144,712	144,712	12.8	0.27	—	145,114
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.86	14.7	6.23	0.09	1.18	—	1.18	1.18	—	1.18	—	16,872	16,872	1.49	0.03	—	16,918
Office Park	0.32	5.88	4.94	0.04	0.45	—	0.45	0.45	—	0.45	—	6,362	6,362	0.56	0.01	—	6,380
Industrial Park	0.04	0.67	0.56	< 0.005	0.05	—	0.05	0.05	—	0.05	—	725	725	0.06	< 0.005	—	727
High School	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	1.22	21.2	11.7	0.13	1.68	—	1.68	1.68	—	1.68	—	23,959	23,959	2.12	0.05	—	24,025

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.62	10.5	4.48	0.07	0.85	—	0.85	0.85	—	0.85	0.00	13,370	13,370	0.25	0.03	—	13,384
Consumer Products	430	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	40.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	110	9.08	1,013	0.05	0.84	—	0.84	0.63	—	0.63	—	3,115	3,115	0.13	0.03	—	3,126
Total	581	19.6	1,018	0.12	1.69	—	1.69	1.48	—	1.48	0.00	16,486	16,486	0.38	0.05	—	16,511
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.62	10.5	4.48	0.07	0.85	—	0.85	0.85	—	0.85	0.00	13,370	13,370	0.25	0.03	—	13,384
Consumer Products	430	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	40.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	471	10.5	4.48	0.07	0.85	—	0.85	0.85	—	0.85	0.00	13,370	13,370	0.25	0.03	—	13,384
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	0.13	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	152	152	< 0.005	< 0.005	—	152
Consumer Products	78.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	13.8	1.14	127	0.01	0.10	—	0.10	0.08	—	0.08	—	353	353	0.01	< 0.005	—	355
Total	99.6	1.27	127	0.01	0.12	—	0.12	0.09	—	0.09	0.00	505	505	0.02	< 0.005	—	506

4.3.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.62	10.5	4.48	0.07	0.85	—	0.85	0.85	—	0.85	0.00	13,370	13,370	0.25	0.03	—	13,384
Consumer Products	430	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	40.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	110	9.08	1,013	0.05	0.84	—	0.84	0.63	—	0.63	—	3,115	3,115	0.13	0.03	—	3,126
Total	581	19.6	1,018	0.12	1.69	—	1.69	1.48	—	1.48	0.00	16,486	16,486	0.38	0.05	—	16,511
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.62	10.5	4.48	0.07	0.85	—	0.85	0.85	—	0.85	0.00	13,370	13,370	0.25	0.03	—	13,384
Consumer Products	430	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	40.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	471	10.5	4.48	0.07	0.85	—	0.85	0.85	—	0.85	0.00	13,370	13,370	0.25	0.03	—	13,384
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	0.13	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	152	152	< 0.005	< 0.005	—	152
Consumer Products	78.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	13.8	1.14	127	0.01	0.10	—	0.10	0.08	—	0.08	—	353	353	0.01	< 0.005	—	355
Total	99.6	1.27	127	0.01	0.12	—	0.12	0.09	—	0.09	0.00	505	505	0.02	< 0.005	—	506

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	907	2,390	3,297	93.3	2.25	—	6,299
Office Park	—	—	—	—	—	—	—	—	—	—	2,033	5,191	7,223	209	5.03	—	13,950
Industrial Park	—	—	—	—	—	—	—	—	—	—	301	768	1,070	31.0	0.75	—	2,067
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	907	2,390	3,297	93.3	2.25	—	6,299
Office Park	—	—	—	—	—	—	—	—	—	—	2,033	5,191	7,223	209	5.03	—	13,950
Industrial Park	—	—	—	—	—	—	—	—	—	—	301	768	1,070	31.0	0.75	—	2,067
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	150	396	546	15.4	0.37	—	1,043
Office Park	—	—	—	—	—	—	—	—	—	—	337	859	1,196	34.6	0.83	—	2,310
Industrial Park	—	—	—	—	—	—	—	—	—	—	49.9	127	177	5.13	0.12	—	342
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	537	1,382	1,919	55.2	1.33	—	3,695

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	907	2,390	3,297	93.3	2.25	—	6,299
Office Park	—	—	—	—	—	—	—	—	—	—	2,033	5,191	7,223	209	5.03	—	13,950
Industrial Park	—	—	—	—	—	—	—	—	—	—	301	768	1,070	31.0	0.75	—	2,067
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	907	2,390	3,297	93.3	2.25	—	6,299

Office Park	—	—	—	—	—	—	—	—	—	—	2,033	5,191	7,223	209	5.03	—	13,950
Industrial Park	—	—	—	—	—	—	—	—	—	—	301	768	1,070	31.0	0.75	—	2,067
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	3,241	8,349	11,590	333	8.02	—	22,316
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	150	396	546	15.4	0.37	—	1,043
Office Park	—	—	—	—	—	—	—	—	—	—	337	859	1,196	34.6	0.83	—	2,310
Industrial Park	—	—	—	—	—	—	—	—	—	—	49.9	127	177	5.13	0.12	—	342
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	537	1,382	1,919	55.2	1.33	—	3,695

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	5,061	0.00	5,061	506	0.00	—	17,708
Office Park	—	—	—	—	—	—	—	—	—	—	2,991	0.00	2,991	299	0.00	—	10,465
Industrial Park	—	—	—	—	—	—	—	—	—	—	454	0.00	454	45.4	0.00	—	1,590

High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	8,507	0.00	8,507	850	0.00	—	29,763
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	5,061	0.00	5,061	506	0.00	—	17,708
Office Park	—	—	—	—	—	—	—	—	—	—	2,991	0.00	2,991	299	0.00	—	10,465
Industrial Park	—	—	—	—	—	—	—	—	—	—	454	0.00	454	45.4	0.00	—	1,590
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	8,507	0.00	8,507	850	0.00	—	29,763
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	838	0.00	838	83.8	0.00	—	2,932
Office Park	—	—	—	—	—	—	—	—	—	—	495	0.00	495	49.5	0.00	—	1,733
Industrial Park	—	—	—	—	—	—	—	—	—	—	75.2	0.00	75.2	7.52	0.00	—	263
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	1,408	0.00	1,408	141	0.00	—	4,928

4.5.2. Mitigated

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

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

Condo/To	—	—	—	—	—	—	—	—	—	—	5,061	0.00	5,061	506	0.00	—	17,708
Office Park	—	—	—	—	—	—	—	—	—	—	748	0.00	748	74.7	0.00	—	2,616
Industrial Park	—	—	—	—	—	—	—	—	—	—	114	0.00	114	11.4	0.00	—	397
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	5,923	0.00	5,923	592	0.00	—	20,722
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	5,061	0.00	5,061	506	0.00	—	17,708
Office Park	—	—	—	—	—	—	—	—	—	—	748	0.00	748	74.7	0.00	—	2,616
Industrial Park	—	—	—	—	—	—	—	—	—	—	114	0.00	114	11.4	0.00	—	397
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	5,923	0.00	5,923	592	0.00	—	20,722
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	838	0.00	838	83.8	0.00	—	2,932
Office Park	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12.4	0.00	—	433
Industrial Park	—	—	—	—	—	—	—	—	—	—	18.8	0.00	18.8	1.88	0.00	—	65.8
High School	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	981	0.00	981	98.0	0.00	—	3,431

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	96.4	96.4
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.5	14.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	177	177
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	96.4	96.4
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.5	14.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	177	177
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.0	16.0
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.40	2.40

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	29.3	29.3
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.7	47.7

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	96.4	96.4
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.5	14.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	177	177
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	96.4	96.4
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.5	14.5
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	177	177
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288	288
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16.0	16.0
Office Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.40	2.40
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	29.3	29.3
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47.7	47.7

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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	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)

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	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)

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	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	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	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetatio	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	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
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	635
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1270

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	635
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1270

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)
27260550	9,086,850	9,972,000	3,324,000	—

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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)
Condo/Townhouse	50,131,874	261	0.0330	0.0040	317,970,329
Office Park	95,062,780	261	0.0330	0.0040	119,908,213
Industrial Park	10,831,550	261	0.0330	0.0040	13,662,464
High School	0.00	261	0.0330	0.0040	0.00

5.11.2. Mitigated

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)
Condo/Townhouse	50,131,874	261	0.0330	0.0040	317,970,329
Office Park	95,062,780	261	0.0330	0.0040	119,908,213
Industrial Park	10,831,550	261	0.0330	0.0040	13,662,464
High School	0.00	261	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)
Condo/Townhouse	473,377,260	23,075,426
Office Park	1,060,715,008	8,369,871
Industrial Park	157,250,000	953,672
High School	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	473,377,260	23,075,426
Office Park	1,060,715,008	8,369,871
Industrial Park	157,250,000	953,672
High School	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	9,391	—
Office Park	5,550	—
Industrial Park	843	—
High School	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	9,391	—
Office Park	1,388	—
Industrial Park	211	—
High School	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

Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Office Park	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Office Park	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
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type

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

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

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	—	annual days of extreme heat
Extreme Precipitation	—	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	—	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	45.0
AQ-PM	68.0
AQ-DPM	91.2
Drinking Water	61.5
Lead Risk Housing	64.6
Pesticides	17.7
Toxic Releases	79.4
Traffic	68.5
Effect Indicators	—
CleanUp Sites	88.6
Groundwater	92.5
Haz Waste Facilities/Generators	91.0
Impaired Water Bodies	66.7
Solid Waste	93.4
Sensitive Population	—
Asthma	45.1
Cardio-vascular	53.6
Low Birth Weights	37.6
Socioeconomic Factor Indicators	—
Education	19.3
Housing	58.8
Linguistic	42.1
Poverty	27.9

Unemployment	23.8

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	83.72898755
Employed	79.36609778
Median HI	78.76299243
Education	—
Bachelor's or higher	79.63557038
High school enrollment	100
Preschool enrollment	40.65186706
Transportation	—
Auto Access	46.70858463
Active commuting	73.66867702
Social	—
2-parent households	44.68112409
Voting	75.93994611
Neighborhood	—
Alcohol availability	33.40177082
Park access	81.35506224
Retail density	65.99512383
Supermarket access	75.70896959
Tree canopy	71.79520082
Housing	—
Homeownership	30.71987681

Housing habitability	49.09534197
Low-inc homeowner severe housing cost burden	67.79160785
Low-inc renter severe housing cost burden	74.88771975
Uncrowded housing	53.4838958
Health Outcomes	—
Insured adults	78.05723085
Arthritis	0.0
Asthma ER Admissions	64.1
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	35.0
Cognitively Disabled	36.6
Physically Disabled	63.7
Heart Attack ER Admissions	49.8
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.1
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0

No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	61.0
Elderly	47.3
English Speaking	58.4
Foreign-born	48.4
Outdoor Workers	81.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	18.0
Traffic Density	72.7
Traffic Access	74.7
Other Indices	—
Hardship	15.8
Other Decision Support	—
2016 Voting	56.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	68.0
Healthy Places Index Score for Project Location (b)	77.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
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	The land uses selected are used for modeling purposes only to represent the emissions for the GP 2045 PEIR (see Table 2-4). Assuming the landscaped area is equivalent to 10% of the floor area.
Operations: Fleet Mix	All trips and VMT to be provided by EMFAC.
Operations: Vehicle EF	All trips and VMT to be provided by EMFAC.
Operations: Road Dust	All trips and VMT to be provided by EMFAC.
Operations: Hearths	Modern woodstove.