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Brea GP Existing Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Brea GP Existing
Operational Year	2025
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	21
Location	33.91898570686023, -117.88591288325267
County	Orange
City	Brea
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5752
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Strip Mall	8,017	1000sqft	184	8,016,629	0.00	0.00	—	—
Industrial Park	12,537	1000sqft	288	12,537,333	0.00	0.00	—	—

Apartments Mid Rise	2,556	Dwelling Unit	0.00	0.00	0.00	0.00	7,285	—
Single Family Housing	8,210	Dwelling Unit	2,666	16,009,500	96,162,556	0.00	23,398	—
Apartments Mid Rise	5,259	Dwelling Unit	138	5,048,640	0.00	0.00	14,988	—
City Park	19	Acre	19	0.00	843,197	843,197	—	—
Government (Civic Center)	34	1000sqft	0.00	0.00	0.00	0.00	—	—
Condo/Townhouse	321	Dwelling Unit	20	340,260	0.00	0.00	915	—
Health Club	50	1000sqft	1.1	49,657	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6,804	1,253	17,676	38	1,195	1,441	2,636	1,173	366	1,539	180,617	2,574,863	2,755,480	3,389	105	9,502	2,881,062
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6,558	1,296	15,654	38	1,193	1,441	2,634	1,171	366	1,537	180,617	2,508,055	2,688,672	3,395	109	3,623	2,809,624
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	2,729	995	9,254	18	108	1,421	1,529	105	361	466	37,992	2,256,15	2,294,14	2,969	104	6,073	2,405,34
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	498	182	1,689	3.3	20	259	279	19	66	85	6,290	373,532	379,822	492	17	1,005	398,233

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	1,304	695	7,415	16	11	1,441	1,451	9.8	366	375	—	1,620,568	1,620,568	102	75	6,036	1,651,590
Area	5,488	356	10,134	21	1,169	—	1,169	1,147	—	1,147	153,112	298,717	451,829	457	5.6	—	464,916
Energy	11	202	127	1.3	16	—	16	16	—	16	—	620,970	620,970	57	4.7	—	623,812
Water	—	—	—	—	—	—	—	—	—	—	7,887	34,608	42,495	812	20	—	68,641
Waste	—	—	—	—	—	—	—	—	—	—	19,618	0.00	19,618	1,961	0.00	—	68,636
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,467	3,467
Total	6,804	1,253	17,676	38	1,195	1,441	2,636	1,173	366	1,539	180,617	2,574,863	2,755,480	3,389	105	9,502	2,881,062
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,289	755	7,214	15	11	1,441	1,451	9.8	366	375	—	1,559,925	1,559,925	109	79	156	1,586,338
Area	5,258	339	8,313	21	1,167	—	1,167	1,146	—	1,146	153,112	292,553	445,664	456	5.5	—	458,730
Energy	11	202	127	1.3	16	—	16	16	—	16	—	620,970	620,970	57	4.7	—	623,812
Water	—	—	—	—	—	—	—	—	—	—	7,887	34,608	42,495	812	20	—	68,641
Waste	—	—	—	—	—	—	—	—	—	—	19,618	0.00	19,618	1,961	0.00	—	68,636
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,467	3,467

Total	6,558	1,296	15,654	38	1,193	1,441	2,634	1,171	366	1,537	180,617	2,508,055	2,688,672	3,395	109	3,623	2,809,624
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1,279	758	7,311	15	11	1,421	1,432	9.8	361	371	—	1,576,315	1,576,315	108	79	2,606	1,605,136
Area	1,439	35	1,817	1.5	81	—	81	80	—	80	10,487	24,260	34,747	31	0.42	—	35,657
Energy	11	202	127	1.3	16	—	16	16	—	16	—	620,970	620,970	57	4.7	—	623,812
Water	—	—	—	—	—	—	—	—	—	—	7,887	34,608	42,495	812	20	—	68,641
Waste	—	—	—	—	—	—	—	—	—	—	19,618	0.00	19,618	1,961	0.00	—	68,636
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,467	3,467
Total	2,729	995	9,254	18	108	1,421	1,529	105	361	466	37,992	2,256,153	2,294,145	2,969	104	6,073	2,405,349
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	233	138	1,334	2.8	1.9	259	261	1.8	66	68	—	260,977	260,977	18	13	431	265,749
Area	263	6.3	332	0.28	15	—	15	15	—	15	1,736	4,017	5,753	5.2	0.07	—	5,903
Energy	2.1	37	23	0.23	2.9	—	2.9	2.9	—	2.9	—	102,809	102,809	9.5	0.78	—	103,279
Water	—	—	—	—	—	—	—	—	—	—	1,306	5,730	7,036	134	3.2	—	11,364
Waste	—	—	—	—	—	—	—	—	—	—	3,248	0.00	3,248	325	0.00	—	11,364
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	574	574
Total	498	182	1,689	3.3	20	259	279	19	66	85	6,290	373,532	379,822	492	17	1,005	398,233

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.

4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	75,205	75,205	7.1	0.86	—	75,640
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	213,403	213,403	20	2.4	—	214,638
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	27,364	27,364	2.6	0.31	—	27,523
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	54,071	54,071	5.1	0.62	—	54,384
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,408	1,408	0.13	0.02	—	1,416
Health Club	—	—	—	—	—	—	—	—	—	—	—	455	455	0.04	0.01	—	458
Total	—	—	—	—	—	—	—	—	—	—	—	371,906	371,906	35	4.3	—	374,058
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	75,205	75,205	7.1	0.86	—	75,640
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	213,403	213,403	20	2.4	—	214,638

Apartment Mid Rise	—	—	—	—	—	—	—	—	—	—	—	27,364	27,364	2.6	0.31	—	27,523
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	54,071	54,071	5.1	0.62	—	54,384
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,408	1,408	0.13	0.02	—	1,416
Health Club	—	—	—	—	—	—	—	—	—	—	—	455	455	0.04	0.01	—	458
Total	—	—	—	—	—	—	—	—	—	—	—	371,906	371,906	35	4.3	—	374,058
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	12,451	12,451	1.2	0.14	—	12,523
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	35,331	35,331	3.3	0.41	—	35,536
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4,530	4,530	0.43	0.05	—	4,557
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8,952	8,952	0.85	0.10	—	9,004
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	233	233	0.02	< 0.005	—	234

Health Club	—	—	—	—	—	—	—	—	—	—	—	75	75	0.01	< 0.005	—	76
Total	—	—	—	—	—	—	—	—	—	—	—	61,573	61,573	5.8	0.71	—	61,930

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	0.71	13	11	0.08	0.98	—	0.98	0.98	—	0.98	—	15,382	15,382	1.4	0.03	—	15,424
Industrial Park	4.7	85	72	0.51	6.5	—	6.5	6.5	—	6.5	—	101,843	101,843	9.0	0.19	—	102,125
Apartments Mid Rise	1.3	22	9.3	0.14	1.8	—	1.8	1.8	—	1.8	—	27,818	27,818	2.5	0.05	—	27,895
Single Family Housing	4.6	79	34	0.51	6.4	—	6.4	6.4	—	6.4	—	100,867	100,867	8.9	0.19	—	101,147
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	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
Condo/Townhouse	0.11	1.9	0.83	0.01	0.16	—	0.16	0.16	—	0.16	—	2,472	2,472	0.22	< 0.005	—	2,479
Health Club	0.03	0.57	0.48	< 0.005	0.04	—	0.04	0.04	—	0.04	—	681	681	0.06	< 0.005	—	683
Total	11	202	127	1.3	16	—	16	16	—	16	—	249,063	249,063	22	0.47	—	249,754
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	0.71	13	11	0.08	0.98	—	0.98	0.98	—	0.98	—	15,382	15,382	1.4	0.03	—	15,424
Industrial Park	4.7	85	72	0.51	6.5	—	6.5	6.5	—	6.5	—	101,843	101,843	9.0	0.19	—	102,125
Apartments Mid Rise	1.3	22	9.3	0.14	1.8	—	1.8	1.8	—	1.8	—	27,818	27,818	2.5	0.05	—	27,895
Single Family Housing	4.6	79	34	0.51	6.4	—	6.4	6.4	—	6.4	—	100,867	100,867	8.9	0.19	—	101,147
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	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
Condo/Townhouse	0.11	1.9	0.83	0.01	0.16	—	0.16	0.16	—	0.16	—	2,472	2,472	0.22	< 0.005	—	2,479
Health Club	0.03	0.57	0.48	< 0.005	0.04	—	0.04	0.04	—	0.04	—	681	681	0.06	< 0.005	—	683
Total	11	202	127	1.3	16	—	16	16	—	16	—	249,063	249,063	22	0.47	—	249,754
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	0.13	2.4	2.0	0.01	0.18	—	0.18	0.18	—	0.18	—	2,547	2,547	0.23	< 0.005	—	2,554
Industrial Park	0.86	16	13	0.09	1.2	—	1.2	1.2	—	1.2	—	16,861	16,861	1.5	0.03	—	16,908
Apartments Mid Rise	0.23	4.0	1.7	0.03	0.32	—	0.32	0.32	—	0.32	—	4,606	4,606	0.41	0.01	—	4,618
Single Family Housing	0.85	15	6.2	0.09	1.2	—	1.2	1.2	—	1.2	—	16,700	16,700	1.5	0.03	—	16,746
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Government (Civic Center)	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
Condo/Townhouse	0.02	0.36	0.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	409	409	0.04	< 0.005	—	410
Health Club	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	113	113	0.01	< 0.005	—	113
Total	2.1	37	23	0.23	2.9	—	2.9	2.9	—	2.9	—	41,235	41,235	3.6	0.08	—	41,350

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	4,270	339	8,313	21	1,167	—	1,167	1,146	—	1,146	153,112	292,553	445,664	456	5.5	—	458,730
Consumer Products	899	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	230	17	1,821	0.09	2.1	—	2.1	1.6	—	1.6	—	6,164	6,164	0.26	0.05	—	6,186
Total	5,488	356	10,134	21	1,169	—	1,169	1,147	—	1,147	153,112	298,717	451,829	457	5.6	—	464,916
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4,270	339	8,313	21	1,167	—	1,167	1,146	—	1,146	153,112	292,553	445,664	456	5.5	—	458,730

Consum Products	899	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5,258	339	8,313	21	1,167	—	1,167	1,146	—	1,146	153,112	292,553	445,664	456	5.5	—	458,730
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	53	4.2	104	0.27	15	—	15	14	—	14	1,736	3,317	5,054	5.2	0.06	—	5,202
Consum er Products	164	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	29	2.1	228	0.01	0.26	—	0.26	0.19	—	0.19	—	699	699	0.03	0.01	—	702
Total	263	6.3	332	0.28	15	—	15	15	—	15	1,736	4,017	5,753	5.2	0.07	—	5,903

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	1,138	3,861	4,999	117	2.8	—	8,764
Industrial Park	—	—	—	—	—	—	—	—	—	—	5,556	18,851	24,407	571	14	—	42,791

Apartments	—	—	—	—	—	—	—	—	—	—	562	1,907	2,469	58	1.4	—	4,328
Single Family Housing	—	—	—	—	—	—	—	—	—	—	590	9,724	10,315	61	1.5	—	12,313
City Park	—	—	—	—	—	—	—	—	—	—	0.00	123	123	0.01	< 0.005	—	124
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	13	43	56	1.3	0.03	—	99
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	23	78	101	2.4	0.06	—	178
Health Club	—	—	—	—	—	—	—	—	—	—	5.6	19	25	0.58	0.01	—	43
Total	—	—	—	—	—	—	—	—	—	—	7,887	34,608	42,495	812	20	—	68,641
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	1,138	3,861	4,999	117	2.8	—	8,764
Industrial Park	—	—	—	—	—	—	—	—	—	—	5,556	18,851	24,407	571	14	—	42,791
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	562	1,907	2,469	58	1.4	—	4,328
Single Family Housing	—	—	—	—	—	—	—	—	—	—	590	9,724	10,315	61	1.5	—	12,313
City Park	—	—	—	—	—	—	—	—	—	—	0.00	123	123	0.01	< 0.005	—	124
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	13	43	56	1.3	0.03	—	99
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	23	78	101	2.4	0.06	—	178

Health Club	—	—	—	—	—	—	—	—	—	—	5.6	19	25	0.58	0.01	—	43
Total	—	—	—	—	—	—	—	—	—	—	7,887	34,608	42,495	812	20	—	68,641
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	188	639	828	19	0.47	—	1,451
Industrial Park	—	—	—	—	—	—	—	—	—	—	920	3,121	4,041	95	2.3	—	7,085
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	93	316	409	9.6	0.23	—	717
Single Family Housing	—	—	—	—	—	—	—	—	—	—	98	1,610	1,708	10	0.26	—	2,039
City Park	—	—	—	—	—	—	—	—	—	—	0.00	20	20	< 0.005	< 0.005	—	20
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	2.1	7.2	9.3	0.22	0.01	—	16
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	3.8	13	17	0.39	0.01	—	29
Health Club	—	—	—	—	—	—	—	—	—	—	0.93	3.2	4.1	0.10	< 0.005	—	7.2
Total	—	—	—	—	—	—	—	—	—	—	1,306	5,730	7,036	134	3.2	—	11,364

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	4,536	0.00	4,536	453	0.00	—	15,872
Industrial Park	—	—	—	—	—	—	—	—	—	—	8,379	0.00	8,379	837	0.00	—	29,314
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2,979	0.00	2,979	298	0.00	—	10,421
Single Family Housing	—	—	—	—	—	—	—	—	—	—	3,345	0.00	3,345	334	0.00	—	11,704
City Park	—	—	—	—	—	—	—	—	—	—	0.88	0.00	0.88	0.09	0.00	—	3.1
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	103	0.00	103	10	0.00	—	361
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	122	0.00	122	12	0.00	—	428
Health Club	—	—	—	—	—	—	—	—	—	—	153	0.00	153	15	0.00	—	534
Total	—	—	—	—	—	—	—	—	—	—	19,618	0.00	19,618	1,961	0.00	—	68,636
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	4,536	0.00	4,536	453	0.00	—	15,872
Industrial Park	—	—	—	—	—	—	—	—	—	—	8,379	0.00	8,379	837	0.00	—	29,314
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	2,979	0.00	2,979	298	0.00	—	10,421
Single Family Housing	—	—	—	—	—	—	—	—	—	—	3,345	0.00	3,345	334	0.00	—	11,704

City Park	—	—	—	—	—	—	—	—	—	—	0.88	0.00	0.88	0.09	0.00	—	3.1
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	103	0.00	103	10	0.00	—	361
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	122	0.00	122	12	0.00	—	428
Health Club	—	—	—	—	—	—	—	—	—	—	153	0.00	153	15	0.00	—	534
Total	—	—	—	—	—	—	—	—	—	—	19,618	0.00	19,618	1,961	0.00	—	68,636
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	751	0.00	751	75	0.00	—	2,628
Industrial Park	—	—	—	—	—	—	—	—	—	—	1,387	0.00	1,387	139	0.00	—	4,853
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	493	0.00	493	49	0.00	—	1,725
Single Family Housing	—	—	—	—	—	—	—	—	—	—	554	0.00	554	55	0.00	—	1,938
City Park	—	—	—	—	—	—	—	—	—	—	0.15	0.00	0.15	0.01	0.00	—	0.51
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	17	0.00	17	1.7	0.00	—	60
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	20	0.00	20	2.0	0.00	—	71
Health Club	—	—	—	—	—	—	—	—	—	—	25	0.00	25	2.5	0.00	—	88
Total	—	—	—	—	—	—	—	—	—	—	3,248	0.00	3,248	325	0.00	—	11,364

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	50
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,264	3,264
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36	36
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	115	115
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,467	3,467
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50	50
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,264	3,264

Apartment Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	36	36
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	115	115
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.24	0.24
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,467	3,467
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.3	8.3
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	540	540
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.0	6.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19	19
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.40	0.40

Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	574	574

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	444,956	444,956	444,956	162,408,940	2,036,275	2,036,275	2,036,275	743,240,375

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Industrial Park	Wood Fireplaces	0	0
Industrial Park	Gas Fireplaces	0	0
Industrial Park	Propane Fireplaces	0	0
Industrial Park	Electric Fireplaces	0	0
Industrial Park	No Fireplaces	0	0
Industrial Park	Conventional Wood Stoves	0	0
Industrial Park	Catalytic Wood Stoves	0	0

Industrial Park	Non-Catalytic Wood Stoves	0	0
Industrial Park	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	128	128
Apartments Mid Rise	Gas Fireplaces	2,173	2,173
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	256	256
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	128	128
Apartments Mid Rise	Non-Catalytic Wood Stoves	128	128
Apartments Mid Rise	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	411	411
Single Family Housing	Gas Fireplaces	6,979	6,979
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	821	821
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	411	411
Single Family Housing	Non-Catalytic Wood Stoves	411	411
Single Family Housing	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	263	263
Apartments Mid Rise	Gas Fireplaces	4,470	4,470
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	526	526
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	263	263
Apartments Mid Rise	Non-Catalytic Wood Stoves	263	263

Apartments Mid Rise	Pellet Wood Stoves	0	0
City Park	Wood Fireplaces	0	0
City Park	Gas Fireplaces	0	0
City Park	Propane Fireplaces	0	0
City Park	Electric Fireplaces	0	0
City Park	No Fireplaces	0	0
City Park	Conventional Wood Stoves	0	0
City Park	Catalytic Wood Stoves	0	0
City Park	Non-Catalytic Wood Stoves	0	0
City Park	Pellet Wood Stoves	0	0
Government (Civic Center)	Wood Fireplaces	0	0
Government (Civic Center)	Gas Fireplaces	0	0
Government (Civic Center)	Propane Fireplaces	0	0
Government (Civic Center)	Electric Fireplaces	0	0
Government (Civic Center)	No Fireplaces	0	0
Government (Civic Center)	Conventional Wood Stoves	0	0
Government (Civic Center)	Catalytic Wood Stoves	0	0
Government (Civic Center)	Non-Catalytic Wood Stoves	0	0
Government (Civic Center)	Pellet Wood Stoves	0	0
Condo/Townhouse	Wood Fireplaces	16	16
Condo/Townhouse	Gas Fireplaces	273	273
Condo/Townhouse	Propane Fireplaces	0	0
Condo/Townhouse	Electric Fireplaces	0	0
Condo/Townhouse	No Fireplaces	32	32
Condo/Townhouse	Conventional Wood Stoves	0	0
Condo/Townhouse	Catalytic Wood Stoves	16	16
Condo/Townhouse	Non-Catalytic Wood Stoves	16	16
Condo/Townhouse	Pellet Wood Stoves	0	0

Health Club	Wood Fireplaces	0	0
Health Club	Gas Fireplaces	0	0
Health Club	Propane Fireplaces	0	0
Health Club	Electric Fireplaces	0	0
Health Club	No Fireplaces	0	0
Health Club	Conventional Wood Stoves	0	0
Health Club	Catalytic Wood Stoves	0	0
Health Club	Non-Catalytic Wood Stoves	0	0
Health Club	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
undefined	43,331,760	14,443,920	30,905,429	10,301,810	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBtu/yr)
Strip Mall	78,734,251	349	0.0330	0.0040	47,995,110
Industrial Park	223,418,863	349	0.0330	0.0040	317,777,103
Apartments Mid Rise	9,369,872	349	0.0330	0.0040	28,389,090

Single Family Housing	56,609,141	349	0.0330	0.0040	314,733,192
Apartments Mid Rise	19,278,622	349	0.0330	0.0040	58,410,887
City Park	0.00	349	0.0330	0.0040	0.00
Government (Civic Center)	0.00	349	0.0330	0.0040	0.00
Condo/Townhouse	1,474,085	349	0.0330	0.0040	7,713,745
Health Club	476,346	349	0.0330	0.0040	2,125,416

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	593,811,924	0.00
Industrial Park	2,899,258,256	0.00
Apartments Mid Rise	95,915,561	0.00
Single Family Housing	308,085,587	1,523,258,662
Apartments Mid Rise	197,347,393	0.00
City Park	0.00	24,284,771
Government (Civic Center)	6,674,568	0.00
Condo/Townhouse	12,045,734	0.00
Health Club	2,936,871	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	8,417	0.00
Industrial Park	15,546	0.00
Apartments Mid Rise	1,808	0.00

Single Family Housing	6,207	0.00
Apartments Mid Rise	3,719	0.00
City Park	1.6	0.00
Government (Civic Center)	192	0.00
Condo/Townhouse	227	0.00
Health Club	283	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.0	4.0	18
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Health Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12	annual days of extreme heat
Extreme Precipitation	5.2	annual days with precipitation above 20 mm

Sea Level Rise	—	meters of inundation depth
Wildfire	0.59	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	55
AQ-PM	83
AQ-DPM	87
Drinking Water	78
Lead Risk Housing	62
Pesticides	0.00
Toxic Releases	92
Traffic	92
Effect Indicators	—

CleanUp Sites	65
Groundwater	11
Haz Waste Facilities/Generators	95
Impaired Water Bodies	0.00
Solid Waste	81
Sensitive Population	—
Asthma	33
Cardio-vascular	53
Low Birth Weights	29
Socioeconomic Factor Indicators	—
Education	62
Housing	39
Linguistic	47
Poverty	32
Unemployment	66

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	74.90055178
Employed	92.3649429
Median HI	68.29205697
Education	—
Bachelor's or higher	59.54061337
High school enrollment	100
Preschool enrollment	57.19235211
Transportation	—

Auto Access	82.44578468
Active commuting	63.55703837
Social	—
2-parent households	71.91068908
Voting	45.3997177
Neighborhood	—
Alcohol availability	16.30950853
Park access	48.36391634
Retail density	98.38316438
Supermarket access	79.84088284
Tree canopy	24.93263185
Housing	—
Homeownership	33.20929039
Housing habitability	35.94251251
Low-inc homeowner severe housing cost burden	90.99191582
Low-inc renter severe housing cost burden	54.20248941
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	60.5800077
Arthritis	0.0
Asthma ER Admissions	68.0
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	72.0

Cognitively Disabled	84.2
Physically Disabled	55.6
Heart Attack ER Admissions	53.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
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	27.6
Elderly	67.6
English Speaking	54.0
Foreign-born	38.1
Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	27.3
Traffic Density	84.0
Traffic Access	87.4
Other Indices	—
Hardship	24.9
Other Decision Support	—

2016 Voting	73.1
-------------	------

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	74
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

8.1. Justifications

Screen	Justification
Land Use	Revised population consistent with City estimate

BCSP - Existing Detailed Report

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8. User Changes to Default Data

8.1. Justifications

8.3. Land Use

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	BCSP - Existing
Operational Year	2025
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.80000
Precipitation (days)	21.2000
Location	33.915263122982054, -117.88643108541962
County	Orange
City	Brea
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5752
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.37

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
Apartments Mid Rise	1,417.00	Dwelling Unit	37.2895	1,360,320	0.00000	0.00000	4,040.00	—
Strip Mall	5,113.86	1000sqft	117.398	5,113,863	0.00000	0.00000	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	815.787	176.163	2,438.64	4.94206	104.535	273.363	377.898	102.449	69.3844	171.834	17,534.8	404,563	422,098	493.714	17.4560	1,186.72	440,830
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	769.211	184.791	2,097.98	4.81155	104.102	273.363	377.465	102.122	69.3844	171.507	17,534.8	391,928	409,463	494.924	18.1496	71.2841	427,316
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	452.505	159.916	1,652.28	3.14132	10.1675	269.647	279.814	9.83029	68.4553	78.2856	5,171.01	372,188	377,359	457.879	17.6993	536.050	394,616
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	82.5822	29.1847	301.540	0.57329	1.85557	49.2105	51.0661	1.79403	12.4931	14.2871	856.120	61,619.9	62,476.0	75.8071	2.93031	88.7493	65,333.2

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	247.379	131.906	1,406.82	3.01224	1.99308	273.363	275.356	1.85496	69.3844	71.2394	—	307,473	307,473	19.3968	14.2812	1,145.13	313,359

Area	567.722	32.0590	1,023.22	1.85511	101.596	—	101.596	99.6479	—	99.6479	13,272.9	26,490.3	39,763.2	39.6184	0.49065	—	40,899.9
Energy	0.68480	12.1973	8.59875	0.07471	0.94627	—	0.94627	0.94627	—	0.94627	—	67,791.2	67,791.2	6.32529	0.63531	—	68,138.7
Water	—	—	—	—	—	—	—	—	—	—	827.757	2,808.74	3,636.50	85.1429	2.04888	—	6,375.64
Waste	—	—	—	—	—	—	—	—	—	—	3,434.15	0.00000	3,434.15	343.231	0.00000	—	12,014.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.5929	41.5929
Total	815.787	176.163	2,438.64	4.94206	104.535	273.363	377.898	102.449	69.3844	171.834	17,534.8	404,563	422,098	493.714	17.4560	1,186.72	440,830
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	244.518	143.193	1,368.77	2.89848	1.99536	273.363	275.358	1.85714	69.3844	71.2416	—	295,967	295,967	20.6536	14.9844	29.6912	300,979
Area	524.008	29.4004	720.618	1.83836	101.160	—	101.160	99.3187	—	99.3187	13,272.9	25,360.8	38,633.7	39.5711	0.48102	—	39,766.3
Energy	0.68480	12.1973	8.59875	0.07471	0.94627	—	0.94627	0.94627	—	0.94627	—	67,791.2	67,791.2	6.32529	0.63531	—	68,138.7
Water	—	—	—	—	—	—	—	—	—	—	827.757	2,808.74	3,636.50	85.1429	2.04888	—	6,375.64
Waste	—	—	—	—	—	—	—	—	—	—	3,434.15	0.00000	3,434.15	343.231	0.00000	—	12,014.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.5929	41.5929
Total	769.211	184.791	2,097.98	4.81155	104.102	273.363	377.465	102.122	69.3844	171.507	17,534.8	391,928	409,463	494.924	18.1496	71.2841	427,316
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	242.656	143.884	1,387.06	2.92923	1.99404	269.647	271.641	1.85588	68.4553	70.3112	—	299,077	299,077	20.4375	14.9755	494.457	304,545
Area	209.165	3.83469	256.617	0.13739	7.22719	—	7.22719	7.02814	—	7.02814	909.104	2,510.69	3,419.80	2.74278	0.03954	—	3,500.15
Energy	0.68480	12.1973	8.59875	0.07471	0.94627	—	0.94627	0.94627	—	0.94627	—	67,791.2	67,791.2	6.32529	0.63531	—	68,138.7
Water	—	—	—	—	—	—	—	—	—	—	827.757	2,808.74	3,636.50	85.1429	2.04888	—	6,375.64
Waste	—	—	—	—	—	—	—	—	—	—	3,434.15	0.00000	3,434.15	343.231	0.00000	—	12,014.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.5929	41.5929
Total	452.505	159.916	1,652.28	3.14132	10.1675	269.647	279.814	9.83029	68.4553	78.2856	5,171.01	372,188	377,359	457.879	17.6993	536.050	394,616
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	44.2846	26.2589	253.138	0.53458	0.36391	49.2105	49.5744	0.33870	12.4931	12.8318	—	49,515.6	49,515.6	3.38365	2.47937	81.8631	50,420.9
Area	38.1726	0.69983	46.8327	0.02507	1.31896	—	1.31896	1.28264	—	1.28264	150.513	415.674	566.187	0.45410	0.00655	—	579.490
Energy	0.12498	2.22601	1.56927	0.01363	0.17269	—	0.17269	0.17269	—	0.17269	—	11,223.6	11,223.6	1.04722	0.10518	—	11,281.1

Water	—	—	—	—	—	—	—	—	—	—	137.045	465.019	602.064	14.0964	0.33921	—	1,055.56
Waste	—	—	—	—	—	—	—	—	—	—	568.562	0.00000	568.562	56.8258	0.00000	—	1,989.21
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.88618	6.88618
Total	82.5822	29.1847	301.540	0.57329	1.85557	49.2105	51.0661	1.79403	12.4931	14.2871	856.120	61,619.9	62,476.0	75.8071	2.93031	88.7493	65,333.2

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.

4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4,961.62	4,961.62	0.46964	0.05693	—	4,990.33
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	47,973.6	47,973.6	4.54090	0.55041	—	48,251.1
Total	—	—	—	—	—	—	—	—	—	—	—	52,935.2	52,935.2	5.01054	0.60734	—	53,241.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4,961.62	4,961.62	0.46964	0.05693	—	4,990.33

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	47,973.6	47,973.6	4.54090	0.55041	—	48,251.1
Total	—	—	—	—	—	—	—	—	—	—	—	52,935.2	52,935.2	5.01054	0.60734	—	53,241.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	821.453	821.453	0.07775	0.00942	—	826.206
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7,942.57	7,942.57	0.75180	0.09113	—	7,988.52
Total	—	—	—	—	—	—	—	—	—	—	—	8,764.03	8,764.03	0.82955	0.10055	—	8,814.73

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.23250	3.97370	1.69094	0.02536	0.32128	—	0.32128	0.32128	—	0.32128	—	5,043.92	5,043.92	0.44639	0.00950	—	5,057.91
Strip Mall	0.45230	8.22359	6.90781	0.04934	0.62499	—	0.62499	0.62499	—	0.62499	—	9,812.11	9,812.11	0.86837	0.01848	—	9,839.33
Total	0.68480	12.1973	8.59875	0.07471	0.94627	—	0.94627	0.94627	—	0.94627	—	14,856.0	14,856.0	1.31475	0.02797	—	14,897.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.23250	3.97370	1.69094	0.02536	0.32128	—	0.32128	0.32128	—	0.32128	—	5,043.92	5,043.92	0.44639	0.00950	—	5,057.91
Strip Mall	0.45230	8.22359	6.90781	0.04934	0.62499	—	0.62499	0.62499	—	0.62499	—	9,812.11	9,812.11	0.86837	0.01848	—	9,839.33
Total	0.68480	12.1973	8.59875	0.07471	0.94627	—	0.94627	0.94627	—	0.94627	—	14,856.0	14,856.0	1.31475	0.02797	—	14,897.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartment Mid Rise	0.04243	0.72520	0.30860	0.00463	0.05863	—	0.05863	0.05863	—	0.05863	—	835.079	835.079	0.07390	0.00157	—	837.395
Strip Mall	0.08254	1.50080	1.26068	0.00900	0.11406	—	0.11406	0.11406	—	0.11406	—	1,624.51	1,624.51	0.14377	0.00306	—	1,629.01
Total	0.12498	2.22601	1.56927	0.01363	0.17269	—	0.17269	0.17269	—	0.17269	—	2,459.59	2,459.59	0.21767	0.00463	—	2,466.41

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	370.136	29.4004	720.618	1.83836	101.160	—	101.160	99.3187	—	99.3187	13,272.9	25,360.8	38,633.7	39.5711	0.48102	—	39,766.3
Consumer Products	138.548	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	15.3242	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	43.7147	2.65862	302.600	0.01675	0.43568	—	0.43568	0.32921	—	0.32921	—	1,129.54	1,129.54	0.04735	0.00963	—	1,133.59
Total	567.722	32.0590	1,023.22	1.85511	101.596	—	101.596	99.6479	—	99.6479	13,272.9	26,490.3	39,763.2	39.6184	0.49065	—	40,899.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	370.136	29.4004	720.618	1.83836	101.160	—	101.160	99.3187	—	99.3187	13,272.9	25,360.8	38,633.7	39.5711	0.48102	—	39,766.3
Consumer Products	138.548	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	15.3242	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	524.008	29.4004	720.618	1.83836	101.160	—	101.160	99.3187	—	99.3187	13,272.9	25,360.8	38,633.7	39.5711	0.48102	—	39,766.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.62670	0.36750	9.00772	0.02298	1.26450	—	1.26450	1.24148	—	1.24148	150.513	287.587	438.099	0.44873	0.00545	—	450.943
Consumer Products	25.2849	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.79667	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.46433	0.33233	37.8249	0.00209	0.05446	—	0.05446	0.04115	—	0.04115	—	128.088	128.088	0.00537	0.00109	—	128.547
Total	38.1726	0.69983	46.8327	0.02507	1.31896	—	1.31896	1.28264	—	1.28264	150.513	415.674	566.187	0.45410	0.00655	—	579.490

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	101.894	345.745	447.638	10.4808	0.25221	—	784.815
Strip Mall	—	—	—	—	—	—	—	—	—	—	725.864	2,463.00	3,188.86	74.6622	1.79667	—	5,590.82
Total	—	—	—	—	—	—	—	—	—	—	827.757	2,808.74	3,636.50	85.1429	2.04888	—	6,375.64

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	101.894	345.745	447.638	10.4808	0.25221	—	784.815
Strip Mall	—	—	—	—	—	—	—	—	—	—	725.864	2,463.00	3,188.86	74.6622	1.79667	—	5,590.82
Total	—	—	—	—	—	—	—	—	—	—	827.757	2,808.74	3,636.50	85.1429	2.04888	—	6,375.64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	16.8697	57.2420	74.1117	1.73521	0.04176	—	129.935
Strip Mall	—	—	—	—	—	—	—	—	—	—	120.175	407.777	527.952	12.3612	0.29746	—	925.624
Total	—	—	—	—	—	—	—	—	—	—	137.045	465.019	602.064	14.0964	0.33921	—	1,055.56

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	540.286	0.00000	540.286	53.9997	0.00000	—	1,890.28
Strip Mall	—	—	—	—	—	—	—	—	—	—	2,893.86	0.00000	2,893.86	289.231	0.00000	—	10,124.6
Total	—	—	—	—	—	—	—	—	—	—	3,434.15	0.00000	3,434.15	343.231	0.00000	—	12,014.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	540.286	0.00000	540.286	53.9997	0.00000	—	1,890.28
Strip Mall	—	—	—	—	—	—	—	—	—	—	2,893.86	0.00000	2,893.86	289.231	0.00000	—	10,124.6
Total	—	—	—	—	—	—	—	—	—	—	3,434.15	0.00000	3,434.15	343.231	0.00000	—	12,014.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	89.4506	0.00000	89.4506	8.94026	0.00000	—	312.957
Strip Mall	—	—	—	—	—	—	—	—	—	—	479.112	0.00000	479.112	47.8855	0.00000	—	1,676.25
Total	—	—	—	—	—	—	—	—	—	—	568.562	0.00000	568.562	56.8258	0.00000	—	1,989.21

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.74262	9.74262
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.8503	31.8503
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.5929	41.5929

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.74262	9.74262
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.8503	31.8503
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.5929	41.5929
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.61300	1.61300
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.27318	5.27318
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.88618	6.88618

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	84,422.0	84,422.0	84,422.0	30,814,030	386,346	386,346	386,346	141,016,290

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Mid Rise	Wood Fireplaces	71	71
Apartments Mid Rise	Gas Fireplaces	1,204	1,204
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	142	142
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	71	71

Apartments Mid Rise	Non-Catalytic Wood Stoves	71	71
Apartments Mid Rise	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
2,754,648	918,216	7,670,795	2,556,932	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

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)
Apartments Mid Rise	5,194,487	348.637	0.0330	0.0040	15,738,396

Strip Mall	50,225,122	348.637	0.0330	0.0040	30,616,412
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5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	53,173,846	0.00000
Strip Mall	378,796,727	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	1,002.50	0.00000
Strip Mall	5,369.56	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000

Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3100	annual days of extreme heat
Extreme Precipitation	5.15000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.59000	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	0	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	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	55.3827

AQ-PM	82.9869
AQ-DPM	86.7704
Drinking Water	78.3315
Lead Risk Housing	61.6887
Pesticides	0.00000
Toxic Releases	92.3981
Traffic	92.4000
Effect Indicators	—
CleanUp Sites	64.8750
Groundwater	10.6425
Haz Waste Facilities/Generators	94.7981
Impaired Water Bodies	0.00000
Solid Waste	81.1913
Sensitive Population	—
Asthma	33.0010
Cardio-vascular	52.6171
Low Birth Weights	28.9582
Socioeconomic Factor Indicators	—
Education	61.6553
Housing	38.7833
Linguistic	47.0835
Poverty	32.0477
Unemployment	65.6299

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	74.90055178
Employed	92.3649429
Median HI	68.29205697
Education	—
Bachelor's or higher	59.54061337
High school enrollment	100
Preschool enrollment	57.19235211
Transportation	—
Auto Access	82.44578468
Active commuting	63.55703837
Social	—
2-parent households	71.91068908
Voting	45.3997177
Neighborhood	—
Alcohol availability	16.30950853
Park access	48.36391634
Retail density	98.38316438
Supermarket access	79.84088284
Tree canopy	24.93263185
Housing	—
Homeownership	33.20929039
Housing habitability	35.94251251
Low-inc homeowner severe housing cost burden	90.99191582
Low-inc renter severe housing cost burden	54.20248941
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	60.5800077
Arthritis	0.0

Asthma ER Admissions	68.0
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	72.0
Cognitively Disabled	84.2
Physically Disabled	55.6
Heart Attack ER Admissions	53.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
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	27.6
Elderly	67.6
English Speaking	54.0
Foreign-born	38.1

Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	27.3
Traffic Density	84.0
Traffic Access	87.4
Other Indices	—
Hardship	24.9
Other Decision Support	—
2016 Voting	73.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67.0000
Healthy Places Index Score for Project Location (b)	74.0000
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

8.1. Justifications

Screen	Justification
Land Use	Revised population based on City estimate

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Landscape Area	sq. ft	—	0.00000
Special Landscape Area	sq. ft	—	0.00000
Population	people	4,223.00	4,040.00

Brea Construction Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Brea Construction
Construction Start Date	1/2/2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	21
Location	33.9198640533065, -117.88900536824646
County	Orange
City	Brea
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5752
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Strip Mall	187	1000sqft	4.3	187,366	0.00	0.00	—	—
Industrial Park	157	1000sqft	3.6	157,143	0.00	0.00	—	—

Apartments Mid Rise	5.0	Dwelling Unit	0.00	0.00	0.00	0.00	15	—
Single Family Housing	66	Dwelling Unit	21	128,700	773,049	0.00	197	—
Apartments Mid Rise	225	Dwelling Unit	5.9	216,000	0.00	0.00	671	—
City Park	0.10	Acre	0.10	0.00	5,269	5,269	—	—
Government (Civic Center)	1.7	1000sqft	0.00	0.00	0.00	0.00	—	—
Health Club	13	1000sqft	0.29	12,777	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction 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.	102	57	75	0.17	1.9	13	14	1.8	5.2	6.7	—	25,327	25,327	1.2	1.8	38	25,937
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	102	127	88	0.58	2.2	84	86	2.1	16	18	—	87,232	87,232	6.1	12	4.5	91,078
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18	37	41	0.13	0.93	16	17	0.87	3.6	4.5	—	21,051	21,051	1.2	2.3	17	21,781
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3.3	6.7	7.4	0.02	0.17	3.0	3.1	0.16	0.66	0.82	—	3,485	3,485	0.20	0.38	2.9	3,606
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2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	102	57	75	0.17	1.9	13	14	1.8	5.2	6.7	—	25,327	25,327	1.2	1.8	38	25,937
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	102	127	88	0.58	2.2	84	86	2.1	16	18	—	87,232	87,232	6.1	12	4.5	91,078
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	18	37	41	0.13	0.93	16	17	0.87	3.6	4.5	—	21,051	21,051	1.2	2.3	17	21,781
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.3	6.7	7.4	0.02	0.17	3.0	3.1	0.16	0.66	0.82	—	3,485	3,485	0.20	0.38	2.9	3,606

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

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

Off-Road Equipment	2.3	21	19	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	59	59	—	8.9	8.9	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.8	2.6	< 0.005	0.12	—	0.12	0.11	—	0.11	—	469	469	0.02	< 0.005	—	471
Demolition	—	—	—	—	—	8.0	8.0	—	1.2	1.2	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.52	0.48	< 0.005	0.02	—	0.02	0.02	—	0.02	—	78	78	< 0.005	< 0.005	—	78
Demolition	—	—	—	—	—	1.5	1.5	—	0.22	0.22	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.68	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	186	186	< 0.005	0.01	0.02	188
Vendor	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
Hauling	1.1	92	40	0.50	0.96	20	21	0.96	5.5	6.5	—	74,418	74,418	5.6	12	3.9	78,072
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26	26	< 0.005	< 0.005	0.04	26

Vendor	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
Hauling	0.15	13	5.4	0.07	0.13	2.7	2.8	0.13	0.75	0.88	—	10,192	10,192	0.77	1.6	8.9	10,701
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.3	4.3	< 0.005	< 0.005	0.01	4.3
Vendor	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
Hauling	0.03	2.3	0.99	0.01	0.02	0.49	0.51	0.02	0.14	0.16	—	1,687	1,687	0.13	0.27	1.5	1,772

3.3. Site Preparation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.1	29	29	0.05	1.2	—	1.2	1.1	—	1.1	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	7.7	7.7	—	3.9	3.9	—	—	—	—	—	—	—
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.1	29	29	0.05	1.2	—	1.2	1.1	—	1.1	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	7.7	7.7	—	3.9	3.9	—	—	—	—	—	—	—
Onsite truck	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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	2.4	2.4	< 0.005	0.10	—	0.10	0.09	—	0.09	—	435	435	0.02	< 0.005	—	437
Dust From Material Movement	—	—	—	—	—	0.63	0.63	—	0.32	0.32	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.44	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72	72	< 0.005	< 0.005	—	72
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.92	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	228	228	< 0.005	0.01	0.79	231
Vendor	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
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.80	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	217	217	< 0.005	0.01	0.02	219
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18	18	< 0.005	< 0.005	0.03	18
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.0	3.0	< 0.005	< 0.005	< 0.005	3.0
Vendor	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.0	27	28	0.06	1.1	—	1.1	1.0	—	1.0	—	6,599	6,599	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	3.6	3.6	—	1.4	1.4	—	—	—	—	—	—	—
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	5.6	5.7	0.01	0.23	—	0.23	0.21	—	0.21	—	1,356	1,356	0.06	0.01	—	1,361

Dust From Material Movement	—	—	—	—	—	0.74	0.74	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.0	1.0	< 0.005	0.04	—	0.04	0.04	—	0.04	—	224	224	0.01	< 0.005	—	225
Dust From Material Movement	—	—	—	—	—	0.14	0.14	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	1.1	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	260	260	< 0.005	0.01	0.91	264
Vendor	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
Hauling	0.11	8.8	3.9	0.05	0.09	1.9	2.0	0.09	0.55	0.64	—	7,360	7,360	0.56	1.2	15	7,736
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.19	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	52	52	< 0.005	< 0.005	0.08	52
Vendor	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
Hauling	0.02	1.9	0.80	0.01	0.02	0.40	0.41	0.02	0.11	0.13	—	1,513	1,513	0.11	0.24	1.3	1,588
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.5	8.5	< 0.005	< 0.005	0.01	8.7
Vendor	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
Hauling	< 0.005	0.35	0.15	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	250	250	0.02	0.04	0.22	263

3.7. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.1	9.9	13	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.1	9.9	13	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	7.0	9.2	0.02	0.27	—	0.27	0.25	—	0.25	—	1,708	1,708	0.07	0.01	—	1,713
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	1.3	1.7	< 0.005	0.05	—	0.05	0.05	—	0.05	—	283	283	0.01	< 0.005	—	284
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.1	0.98	17	0.00	0.00	4.2	4.2	0.00	0.98	0.98	—	4,176	4,176	0.05	0.15	15	4,237
Vendor	0.06	2.9	1.4	0.02	0.02	0.77	0.79	0.02	0.21	0.23	—	2,829	2,829	0.14	0.40	7.3	2,959
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.1	1.1	15	0.00	0.00	4.2	4.2	0.00	0.98	0.98	—	3,974	3,974	0.06	0.15	0.38	4,021
Vendor	0.06	3.0	1.5	0.02	0.02	0.77	0.79	0.02	0.21	0.23	—	2,831	2,831	0.14	0.40	0.19	2,953
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.77	0.80	11	0.00	0.00	2.9	2.9	0.00	0.69	0.69	—	2,870	2,870	0.04	0.11	4.5	2,907
Vendor	0.04	2.1	1.0	0.01	0.01	0.54	0.56	0.01	0.15	0.16	—	2,016	2,016	0.10	0.28	2.3	2,105
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.15	2.0	0.00	0.00	0.54	0.54	0.00	0.13	0.13	—	475	475	0.01	0.02	0.74	481
Vendor	0.01	0.39	0.19	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	334	334	0.02	0.05	0.37	349
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	7.1	9.9	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	1.1	1.5	< 0.005	0.05	—	0.05	0.04	—	0.04	—	228	228	0.01	< 0.005	—	228
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.20	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	38	38	< 0.005	< 0.005	—	38
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.79	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	195	195	< 0.005	0.01	0.68	198
Vendor	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
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	28	28	< 0.005	< 0.005	0.04	29
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.7	4.7	< 0.005	< 0.005	0.01	4.8

Vendor	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.1	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.1	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20	20	< 0.005	< 0.005	—	20
Architectural Coatings	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.3	3.3	< 0.005	< 0.005	—	3.3
Architectural Coatings	2.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.20	3.4	0.00	0.00	0.84	0.84	0.00	0.20	0.20	—	835	835	0.01	0.03	2.9	847
Vendor	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
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.22	2.9	0.00	0.00	0.84	0.84	0.00	0.20	0.20	—	795	795	0.01	0.03	0.08	804
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.46	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	< 0.005	0.19	123
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	20	20	< 0.005	< 0.005	0.03	20
Vendor	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
Hauling	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

4. Operations Emissions Details

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/2/2026	3/13/2026	5.0	50	—
Site Preparation	Site Preparation	3/14/2026	4/25/2026	5.0	30	—
Grading	Grading	4/26/2026	8/9/2026	5.0	75	—
Building Construction	Building Construction	1/2/2026	12/31/2026	5.0	260	—
Paving	Paving	6/12/2026	8/27/2026	5.0	55	—
Architectural Coating	Architectural Coating	8/29/2026	11/14/2026	5.0	55	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.0	33	0.73
Demolition	Excavators	Diesel	Average	3.0	8.0	36	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.0	8.0	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.0	8.0	367	0.40

Site Preparation	Tractors/Loaders/Back	Diesel	Average	4.0	8.0	84	0.37
Grading	Excavators	Diesel	Average	2.0	8.0	36	0.38
Grading	Graders	Diesel	Average	1.00	8.0	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Grading	Scrapers	Diesel	Average	2.0	8.0	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.0	8.0	84	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.0	367	0.29
Building Construction	Forklifts	Diesel	Average	3.0	8.0	82	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.0	14	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.0	7.0	84	0.37
Building Construction	Welders	Diesel	Average	1.00	8.0	46	0.45
Paving	Pavers	Diesel	Average	2.0	8.0	81	0.42
Paving	Paving Equipment	Diesel	Average	2.0	8.0	89	0.36
Paving	Rollers	Diesel	Average	2.0	8.0	36	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.0	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	15	19	LDA,LDT1,LDT2
Demolition	Vendor	—	10	HHDT,MHDT
Demolition	Hauling	1,086	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	18	19	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10	HHDT,MHDT
Site Preparation	Hauling	0.00	20	HHDT

Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20	19	LDA,LDT1,LDT2
Grading	Vendor	—	10	HHDT,MHDT
Grading	Hauling	107	20	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	321	19	LDA,LDT1,LDT2
Building Construction	Vendor	90	10	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15	19	LDA,LDT1,LDT2
Paving	Vendor	—	10	HHDT,MHDT
Paving	Hauling	0.00	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	64	19	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

5.5. Architectural Coatings

Phase Name	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)
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Architectural Coating	698,018	232,673	535,929	178,643	—
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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	4,719,862	0.00
Site Preparation	0.00	0.00	45	0.00	0.00
Grading	42,840	21,600	225	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.73

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Strip Mall	0.00	0%
Paving	Industrial Park	0.00	0%
Paving	Apartments Mid Rise	—	0%
Paving	Single Family Housing	0.73	0%
Paving	Apartments Mid Rise	—	0%
Paving	City Park	0.00	0%
Paving	Government (Civic Center)	0.00	0%
Paving	Health Club	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
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Temperature and Extreme Heat	12	annual days of extreme heat
Extreme Precipitation	5.2	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.59	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	55
AQ-PM	83
AQ-DPM	87
Drinking Water	78
Lead Risk Housing	62
Pesticides	0.00
Toxic Releases	92

Traffic	92
Effect Indicators	—
CleanUp Sites	65
Groundwater	11
Haz Waste Facilities/Generators	95
Impaired Water Bodies	0.00
Solid Waste	81
Sensitive Population	—
Asthma	33
Cardio-vascular	53
Low Birth Weights	29
Socioeconomic Factor Indicators	—
Education	62
Housing	39
Linguistic	47
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Unemployment	66

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	74.90055178
Employed	92.3649429
Median HI	68.29205697
Education	—
Bachelor's or higher	59.54061337
High school enrollment	100

Preschool enrollment	57.19235211
Transportation	—
Auto Access	82.44578468
Active commuting	63.55703837
Social	—
2-parent households	71.91068908
Voting	45.3997177
Neighborhood	—
Alcohol availability	16.30950853
Park access	48.36391634
Retail density	98.38316438
Supermarket access	79.84088284
Tree canopy	24.93263185
Housing	—
Homeownership	33.20929039
Housing habitability	35.94251251
Low-inc homeowner severe housing cost burden	90.99191582
Low-inc renter severe housing cost burden	54.20248941
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	60.5800077
Arthritis	0.0
Asthma ER Admissions	68.0
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	72.0
Cognitively Disabled	84.2
Physically Disabled	55.6
Heart Attack ER Admissions	53.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
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	27.6
Elderly	67.6
English Speaking	54.0
Foreign-born	38.1
Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	27.3
Traffic Density	84.0
Traffic Access	87.4
Other Indices	—

Hardship	24.9
Other Decision Support	—
2016 Voting	73.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	74
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

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Reduced building construction to one year. Changed date of paving/coating to 2026. Individual activities could occur anytime, with the potential to overlap between projects.

Brea GP Buildout Detailed Report

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8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Brea GP Buildout
Operational Year	2050
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	21
Location	33.91898570686023, -117.88591288325267
County	Orange
City	Brea
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5752
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Strip Mall	12,701	1000sqft	292	12,700,781	0.00	0.00	—	—
Industrial Park	16,466	1000sqft	378	16,465,901	0.00	0.00	—	—

Apartments Mid Rise	2,677	Dwelling Unit	0.00	0.00	0.00	0.00	7,630	—
Single Family Housing	9,853	Dwelling Unit	3,199	19,213,350	115,406,780	0.00	28,081	—
Apartments Mid Rise	10,884	Dwelling Unit	286	10,448,640	0.00	0.00	31,020	—
City Park	31	Acre	31	0.00	1,344,099	1,344,099	—	—
Library	77	1000sqft	1.8	76,502	0.00	0.00	—	—
Condo/Townhouse	321	Dwelling Unit	20	340,260	0.00	0.00	915	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6,885	1,156	16,811	39	1,205	1,747	2,952	1,182	443	1,626	191,459	2,704,891	2,896,350	4,465	102	4,752	3,043,136
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6,563	1,170	13,929	38	1,202	1,747	2,949	1,180	443	1,623	191,459	2,637,367	2,828,826	4,468	105	4,585	2,976,378
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2,793	772	8,034	18	109	1,724	1,832	107	437	544	48,834	2,263,488	2,312,322	4,040	100	4,655	2,447,636

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	510	141	1,466	3.2	20	315	334	19	80	99	8,085	374,746	382,831	669	16	771	405,234

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	874	421	5,659	15	5.3	1,747	1,753	4.9	443	448	—	1,521,363	1,521,363	63	63	172	1,541,812
Area	5,996	466	10,982	22	1,178	—	1,178	1,156	—	1,156	153,112	433,628	586,739	459	5.9	—	599,973
Energy	15	269	170	1.7	21	—	21	21	—	21	—	715,383	715,383	78	6.5	—	719,274
Water	—	—	—	—	—	—	—	—	—	—	10,811	34,517	45,328	1,113	27	—	81,156
Waste	—	—	—	—	—	—	—	—	—	—	27,536	0.00	27,536	2,752	0.00	—	96,341
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,580	4,580
Total	6,885	1,156	16,811	39	1,205	1,747	2,952	1,182	443	1,626	191,459	2,704,891	2,896,350	4,465	102	4,752	3,043,136
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	877	458	5,402	14	5.3	1,747	1,753	4.9	443	448	—	1,462,670	1,462,670	66	66	4.5	1,483,916
Area	5,670	443	8,357	22	1,175	—	1,175	1,154	—	1,154	153,112	424,797	577,909	459	5.8	—	591,111
Energy	15	269	170	1.7	21	—	21	21	—	21	—	715,383	715,383	78	6.5	—	719,274
Water	—	—	—	—	—	—	—	—	—	—	10,811	34,517	45,328	1,113	27	—	81,156
Waste	—	—	—	—	—	—	—	—	—	—	27,536	0.00	27,536	2,752	0.00	—	96,341
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,580	4,580
Total	6,563	1,170	13,929	38	1,202	1,747	2,949	1,180	443	1,623	191,459	2,637,367	2,828,826	4,468	105	4,585	2,976,378

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	867	457	5,494	15	5.3	1,724	1,729	4.9	437	442	—	1,478,444	1,478,444	65	66	74	1,499,728
Area	1,911	46	2,371	1.6	82	—	82	81	—	81	10,487	35,144	45,631	32	0.45	—	46,557
Energy	15	269	170	1.7	21	—	21	21	—	21	—	715,383	715,383	78	6.5	—	719,274
Water	—	—	—	—	—	—	—	—	—	—	10,811	34,517	45,328	1,113	27	—	81,156
Waste	—	—	—	—	—	—	—	—	—	—	27,536	0.00	27,536	2,752	0.00	—	96,341
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,580	4,580
Total	2,793	772	8,034	18	109	1,724	1,832	107	437	544	48,834	2,263,488	2,312,322	4,040	100	4,655	2,447,636
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	158	83	1,003	2.6	0.96	315	316	0.90	80	81	—	244,773	244,773	11	11	12	248,297
Area	349	8.4	433	0.29	15	—	15	15	—	15	1,736	5,818	7,555	5.2	0.07	—	7,708
Energy	2.8	49	31	0.30	3.8	—	3.8	3.8	—	3.8	—	118,440	118,440	13	1.1	—	119,084
Water	—	—	—	—	—	—	—	—	—	—	1,790	5,715	7,505	184	4.4	—	13,436
Waste	—	—	—	—	—	—	—	—	—	—	4,559	0.00	4,559	456	0.00	—	15,950
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	758	758
Total	510	141	1,466	3.2	20	315	334	19	80	99	8,085	374,746	382,831	669	16	771	405,234

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.

4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	89,125	89,125	11	1.4	—	89,814
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	209,650	209,650	27	3.2	—	211,272
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	35,519	35,519	4.5	0.54	—	35,794
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	48,541	48,541	6.1	0.74	—	48,916
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Library	—	—	—	—	—	—	—	—	—	—	—	524	524	0.07	0.01	—	528
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,053	1,053	0.13	0.02	—	1,061
Total	—	—	—	—	—	—	—	—	—	—	—	384,412	384,412	49	5.9	—	387,385
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	89,125	89,125	11	1.4	—	89,814
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	209,650	209,650	27	3.2	—	211,272
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	35,519	35,519	4.5	0.54	—	35,794
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	48,541	48,541	6.1	0.74	—	48,916
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Library	—	—	—	—	—	—	—	—	—	—	—	524	524	0.07	0.01	—	528
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	1,053	1,053	0.13	0.02	—	1,061
Total	—	—	—	—	—	—	—	—	—	—	—	384,412	384,412	49	5.9	—	387,385
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	14,756	14,756	1.9	0.23	—	14,870
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	34,710	34,710	4.4	0.53	—	34,978
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	5,881	5,881	0.74	0.09	—	5,926
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8,036	8,036	1.0	0.12	—	8,099
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Library	—	—	—	—	—	—	—	—	—	—	—	87	87	0.01	< 0.005	—	87
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	174	174	0.02	< 0.005	—	176
Total	—	—	—	—	—	—	—	—	—	—	—	63,644	63,644	8.1	0.98	—	64,136

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	1.1	20	17	0.12	1.6	—	1.6	1.6	—	1.6	—	24,369	24,369	2.2	0.05	—	24,437
Industrial Park	6.2	112	94	0.67	8.5	—	8.5	8.5	—	8.5	—	133,755	133,755	12	0.25	—	134,126

Apartment Mid Rise	2.2	38	16	0.24	3.1	—	3.1	3.1	—	3.1	—	48,271	48,271	4.3	0.09	—	48,405
Single Family Housing	5.6	95	41	0.61	7.7	—	7.7	7.7	—	7.7	—	121,053	121,053	11	0.23	—	121,389
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Library	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,049	1,049	0.09	< 0.005	—	1,052
Condo/Townhouse	0.11	1.9	0.83	0.01	0.16	—	0.16	0.16	—	0.16	—	2,472	2,472	0.22	< 0.005	—	2,479
Total	15	269	170	1.7	21	—	21	21	—	21	—	330,971	330,971	29	0.62	—	331,889
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	1.1	20	17	0.12	1.6	—	1.6	1.6	—	1.6	—	24,369	24,369	2.2	0.05	—	24,437
Industrial Park	6.2	112	94	0.67	8.5	—	8.5	8.5	—	8.5	—	133,755	133,755	12	0.25	—	134,126
Apartment Mid Rise	2.2	38	16	0.24	3.1	—	3.1	3.1	—	3.1	—	48,271	48,271	4.3	0.09	—	48,405
Single Family Housing	5.6	95	41	0.61	7.7	—	7.7	7.7	—	7.7	—	121,053	121,053	11	0.23	—	121,389
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Library	0.05	0.88	0.74	0.01	0.07	—	0.07	0.07	—	0.07	—	1,049	1,049	0.09	< 0.005	—	1,052
Condo/Townhouse	0.11	1.9	0.83	0.01	0.16	—	0.16	0.16	—	0.16	—	2,472	2,472	0.22	< 0.005	—	2,479
Total	15	269	170	1.7	21	—	21	21	—	21	—	330,971	330,971	29	0.62	—	331,889
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	0.21	3.7	3.1	0.02	0.28	—	0.28	0.28	—	0.28	—	4,035	4,035	0.36	0.01	—	4,046
Industrial Park	1.1	20	17	0.12	1.6	—	1.6	1.6	—	1.6	—	22,145	22,145	2.0	0.04	—	22,206

Apartment Mid Rise	0.41	6.9	3.0	0.04	0.56	—	0.56	0.56	—	0.56	—	7,992	7,992	0.71	0.02	—	8,014
Single Family Housing	1.0	17	7.4	0.11	1.4	—	1.4	1.4	—	1.4	—	20,042	20,042	1.8	0.04	—	20,097
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Library	0.01	0.16	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	174	174	0.02	< 0.005	—	174
Condo/Townhouse	0.02	0.36	0.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	409	409	0.04	< 0.005	—	410
Total	2.8	49	31	0.30	3.8	—	3.8	3.8	—	3.8	—	54,796	54,796	4.8	0.10	—	54,948

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	4,276	443	8,357	22	1,175	—	1,175	1,154	—	1,154	153,112	424,797	577,909	459	5.8	—	591,111
Consumer Products	1,269	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	126	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	326	23	2,625	0.13	2.9	—	2.9	2.2	—	2.2	—	8,830	8,830	0.37	0.07	—	8,862
Total	5,996	466	10,982	22	1,178	—	1,178	1,156	—	1,156	153,112	433,628	586,739	459	5.9	—	599,973

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4,276	443	8,357	22	1,175	—	1,175	1,154	—	1,154	153,112	424,797	577,909	459	5.8	—	591,111
Consumer Products	1,269	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	126	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5,670	443	8,357	22	1,175	—	1,175	1,154	—	1,154	153,112	424,797	577,909	459	5.8	—	591,111
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	53	5.5	104	0.27	15	—	15	14	—	14	1,736	4,817	6,553	5.2	0.07	—	6,703
Consumer Products	232	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	41	2.9	328	0.02	0.36	—	0.36	0.27	—	0.27	—	1,001	1,001	0.04	0.01	—	1,005
Total	349	8.4	433	0.29	15	—	15	15	—	15	1,736	5,818	7,555	5.2	0.07	—	7,708

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Strip Mall	—	—	—	—	—	—	—	—	—	—	1,803	4,576	6,378	185	4.5	—	12,344
Industrial Park	—	—	—	—	—	—	—	—	—	—	7,297	18,520	25,816	751	18	—	49,961
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	975	2,475	3,450	100	2.4	—	6,677
Single Family Housing	—	—	—	—	—	—	—	—	—	—	709	8,730	9,438	74	1.9	—	11,836
City Park	—	—	—	—	—	—	—	—	—	—	0.00	147	147	0.02	< 0.005	—	148
Library	—	—	—	—	—	—	—	—	—	—	4.6	12	16	0.47	0.01	—	31
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	23	59	82	2.4	0.06	—	158
Total	—	—	—	—	—	—	—	—	—	—	10,811	34,517	45,328	1,113	27	—	81,156
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	1,803	4,576	6,378	185	4.5	—	12,344
Industrial Park	—	—	—	—	—	—	—	—	—	—	7,297	18,520	25,816	751	18	—	49,961
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	975	2,475	3,450	100	2.4	—	6,677
Single Family Housing	—	—	—	—	—	—	—	—	—	—	709	8,730	9,438	74	1.9	—	11,836
City Park	—	—	—	—	—	—	—	—	—	—	0.00	147	147	0.02	< 0.005	—	148
Library	—	—	—	—	—	—	—	—	—	—	4.6	12	16	0.47	0.01	—	31
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	23	59	82	2.4	0.06	—	158
Total	—	—	—	—	—	—	—	—	—	—	10,811	34,517	45,328	1,113	27	—	81,156

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	298	758	1,056	31	0.74	—	2,044
Industrial Park	—	—	—	—	—	—	—	—	—	—	1,208	3,066	4,274	124	3.0	—	8,272
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	161	410	571	17	0.40	—	1,105
Single Family Housing	—	—	—	—	—	—	—	—	—	—	117	1,445	1,563	12	0.31	—	1,960
City Park	—	—	—	—	—	—	—	—	—	—	0.00	24	24	< 0.005	< 0.005	—	24
Library	—	—	—	—	—	—	—	—	—	—	0.76	1.9	2.7	0.08	< 0.005	—	5.2
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	3.8	9.7	14	0.39	0.01	—	26
Total	—	—	—	—	—	—	—	—	—	—	1,790	5,715	7,505	184	4.4	—	13,436

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	7,187	0.00	7,187	718	0.00	—	25,146
Industrial Park	—	—	—	—	—	—	—	—	—	—	11,004	0.00	11,004	1,100	0.00	—	38,499
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	5,169	0.00	5,169	517	0.00	—	18,084

Single Family Housing	—	—	—	—	—	—	—	—	—	—	4,015	0.00	4,015	401	0.00	—	14,046
City Park	—	—	—	—	—	—	—	—	—	—	1.4	0.00	1.4	0.14	0.00	—	5.0
Library	—	—	—	—	—	—	—	—	—	—	38	0.00	38	3.8	0.00	—	133
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	122	0.00	122	12	0.00	—	428
Total	—	—	—	—	—	—	—	—	—	—	27,536	0.00	27,536	2,752	0.00	—	96,341
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	7,187	0.00	7,187	718	0.00	—	25,146
Industrial Park	—	—	—	—	—	—	—	—	—	—	11,004	0.00	11,004	1,100	0.00	—	38,499
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	5,169	0.00	5,169	517	0.00	—	18,084
Single Family Housing	—	—	—	—	—	—	—	—	—	—	4,015	0.00	4,015	401	0.00	—	14,046
City Park	—	—	—	—	—	—	—	—	—	—	1.4	0.00	1.4	0.14	0.00	—	5.0
Library	—	—	—	—	—	—	—	—	—	—	38	0.00	38	3.8	0.00	—	133
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	122	0.00	122	12	0.00	—	428
Total	—	—	—	—	—	—	—	—	—	—	27,536	0.00	27,536	2,752	0.00	—	96,341
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	1,190	0.00	1,190	119	0.00	—	4,163
Industrial Park	—	—	—	—	—	—	—	—	—	—	1,822	0.00	1,822	182	0.00	—	6,374

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	856	0.00	856	86	0.00	—	2,994
Single Family Housing	—	—	—	—	—	—	—	—	—	—	665	0.00	665	66	0.00	—	2,326
City Park	—	—	—	—	—	—	—	—	—	—	0.24	0.00	0.24	0.02	0.00	—	0.83
Library	—	—	—	—	—	—	—	—	—	—	6.3	0.00	6.3	0.63	0.00	—	22
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	20	0.00	20	2.0	0.00	—	71
Total	—	—	—	—	—	—	—	—	—	—	4,559	0.00	4,559	456	0.00	—	15,950

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79	79
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,286	4,286
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75	75
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	138	138
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.30	0.30

Condo/T	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,580	4,580
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	79	79
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,286	4,286
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	75	75
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	138	138
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.30	0.30
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.4	2.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,580	4,580
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13	13
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	710	710
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	12
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23	23
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Library	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05

Condo/T	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.40	0.40
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	758	758

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	504,954	504,954	504,954	184,308,210	2,473,206	2,473,206	2,473,206	902,720,190

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Industrial Park	Wood Fireplaces	0	0
Industrial Park	Gas Fireplaces	0	0
Industrial Park	Propane Fireplaces	0	0
Industrial Park	Electric Fireplaces	0	0
Industrial Park	No Fireplaces	0	0
Industrial Park	Conventional Wood Stoves	0	0
Industrial Park	Catalytic Wood Stoves	0	0

Industrial Park	Non-Catalytic Wood Stoves	0	0
Industrial Park	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	128	128
Apartments Mid Rise	Gas Fireplaces	2,275	2,275
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	274	274
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	128	128
Apartments Mid Rise	Non-Catalytic Wood Stoves	128	128
Apartments Mid Rise	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	411	411
Single Family Housing	Gas Fireplaces	8,375	8,375
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	1,067	1,067
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	411	411
Single Family Housing	Non-Catalytic Wood Stoves	411	411
Single Family Housing	Pellet Wood Stoves	0	0
Apartments Mid Rise	Wood Fireplaces	263	263
Apartments Mid Rise	Gas Fireplaces	9,251	9,251
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	1,370	1,370
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	263	263
Apartments Mid Rise	Non-Catalytic Wood Stoves	263	263

Apartments Mid Rise	Pellet Wood Stoves	0	0
City Park	Wood Fireplaces	0	0
City Park	Gas Fireplaces	0	0
City Park	Propane Fireplaces	0	0
City Park	Electric Fireplaces	0	0
City Park	No Fireplaces	0	0
City Park	Conventional Wood Stoves	0	0
City Park	Catalytic Wood Stoves	0	0
City Park	Non-Catalytic Wood Stoves	0	0
City Park	Pellet Wood Stoves	0	0
Library	Wood Fireplaces	0	0
Library	Gas Fireplaces	0	0
Library	Propane Fireplaces	0	0
Library	Electric Fireplaces	0	0
Library	No Fireplaces	0	0
Library	Conventional Wood Stoves	0	0
Library	Catalytic Wood Stoves	0	0
Library	Non-Catalytic Wood Stoves	0	0
Library	Pellet Wood Stoves	0	0
Condo/Townhouse	Wood Fireplaces	16	16
Condo/Townhouse	Gas Fireplaces	273	273
Condo/Townhouse	Propane Fireplaces	0	0
Condo/Townhouse	Electric Fireplaces	0	0
Condo/Townhouse	No Fireplaces	32	32
Condo/Townhouse	Conventional Wood Stoves	0	0
Condo/Townhouse	Catalytic Wood Stoves	16	16
Condo/Townhouse	Non-Catalytic Wood Stoves	16	16
Condo/Townhouse	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

—	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
undefined	60,754,556	20,251,519	43,864,776	14,621,592	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Strip Mall	124,739,024	261	0.0330	0.0040	76,038,867
Industrial Park	293,427,070	261	0.0330	0.0040	417,352,424
Apartments Mid Rise	9,813,438	261	0.0330	0.0040	29,733,018
Single Family Housing	67,937,865	261	0.0330	0.0040	377,718,166
Apartments Mid Rise	39,898,938	261	0.0330	0.0040	120,886,878
City Park	0.00	261	0.0330	0.0040	0.00
Library	733,863	261	0.0330	0.0040	3,274,434
Condo/Townhouse	1,474,085	261	0.0330	0.0040	7,713,745

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
----------	-------------------------	--------------------------

Strip Mall	940,778,873	0.00
Industrial Park	3,807,739,606	0.00
Apartments Mid Rise	100,456,165	0.00
Single Family Housing	369,740,229	1,828,095,931
Apartments Mid Rise	408,429,175	0.00
City Park	0.00	38,711,164
Library	2,393,664	0.00
Condo/Townhouse	12,045,734	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	13,336	0.00
Industrial Park	20,418	0.00
Apartments Mid Rise	1,893	0.00
Single Family Housing	7,449	0.00
Apartments Mid Rise	7,697	0.00
City Park	2.7	0.00
Library	70	0.00
Condo/Townhouse	227	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18

Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.0	4.0	18
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Library	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Library	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18

Library	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Library	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12	annual days of extreme heat
Extreme Precipitation	5.2	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.59	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	55
AQ-PM	83
AQ-DPM	87
Drinking Water	78
Lead Risk Housing	62
Pesticides	0.00
Toxic Releases	92
Traffic	92
Effect Indicators	—
CleanUp Sites	65
Groundwater	11
Haz Waste Facilities/Generators	95
Impaired Water Bodies	0.00
Solid Waste	81
Sensitive Population	—
Asthma	33
Cardio-vascular	53
Low Birth Weights	29
Socioeconomic Factor Indicators	—

Education	62
Housing	39
Linguistic	47
Poverty	32
Unemployment	66

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	74.90055178
Employed	92.3649429
Median HI	68.29205697
Education	—
Bachelor's or higher	59.54061337
High school enrollment	100
Preschool enrollment	57.19235211
Transportation	—
Auto Access	82.44578468
Active commuting	63.55703837
Social	—
2-parent households	71.91068908
Voting	45.3997177
Neighborhood	—
Alcohol availability	16.30950853
Park access	48.36391634
Retail density	98.38316438
Supermarket access	79.84088284

Tree canopy	24.93263185
Housing	—
Homeownership	33.20929039
Housing habitability	35.94251251
Low-inc homeowner severe housing cost burden	90.99191582
Low-inc renter severe housing cost burden	54.20248941
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	60.5800077
Arthritis	0.0
Asthma ER Admissions	68.0
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	72.0
Cognitively Disabled	84.2
Physically Disabled	55.6
Heart Attack ER Admissions	53.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
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	27.6
Elderly	67.6
English Speaking	54.0
Foreign-born	38.1
Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	27.3
Traffic Density	84.0
Traffic Access	87.4
Other Indices	—
Hardship	24.9
Other Decision Support	—
2016 Voting	73.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67
Healthy Places Index Score for Project Location (b)	74
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

8.1. Justifications

Screen	Justification
Land Use	Revised population consistent with City estimate
Operations: Hearths	Assume existing wood hearths/stoves remain, but no new wood hearth/stove

BCSP - Construction Detailed Report

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8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	BCSP - Construction
Construction Start Date	1/2/2026
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.8
Precipitation (days)	21
Location	33.91526979882481, -117.88668041875385
County	Orange
City	Brea
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5752
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

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
Apartments Mid Rise	133	Dwelling Unit	3.5	127,680	0.00	0.00	396	—
Strip Mall	51	1000sqft	1.2	50,629	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction 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.	1.5	11	19	0.03	0.38	1.7	2.0	0.35	0.40	0.75	—	4,561	4,561	0.15	0.17	6.9	4,623
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	71	40	48	0.12	1.6	22	23	1.5	11	12	—	16,651	16,651	0.96	1.6	0.67	17,162
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.7	9.5	14	0.02	0.34	1.6	2.0	0.31	0.50	0.81	—	3,539	3,539	0.13	0.15	2.2	3,591
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.85	1.7	2.6	< 0.005	0.06	0.30	0.36	0.06	0.09	0.15	—	586	586	0.02	0.03	0.36	594

2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.5	11	19	0.03	0.38	1.7	2.0	0.35	0.40	0.75	—	4,561	4,561	0.15	0.17	6.9	4,623

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	71	40	48	0.12	1.6	22	23	1.5	11	12	—	16,651	16,651	0.96	1.6	0.67	17,162
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.7	9.5	14	0.02	0.34	1.6	2.0	0.31	0.50	0.81	—	3,539	3,539	0.13	0.15	2.2	3,591
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.85	1.7	2.6	< 0.005	0.06	0.30	0.36	0.06	0.09	0.15	—	586	586	0.02	0.03	0.36	594

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.3	21	19	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	1.3	1.3	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	1.1	1.0	< 0.005	0.05	—	0.05	0.04	—	0.04	—	188	188	0.01	< 0.005	—	188

Demoliti	—	—	—	—	—	0.07	0.07	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31	31	< 0.005	< 0.005	—	31
Demoliti on	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.68	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	186	186	< 0.005	0.01	0.02	188
Vendor	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
Hauling	0.01	1.3	0.56	0.01	0.01	0.28	0.29	0.01	0.08	0.09	—	1,056	1,056	0.08	0.17	0.06	1,108
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10	10	< 0.005	< 0.005	0.02	10
Vendor	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
Hauling	< 0.005	0.07	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	58	58	< 0.005	0.01	0.05	61
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.7	1.7	< 0.005	< 0.005	< 0.005	1.7
Vendor	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
Hauling	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.6	9.6	< 0.005	< 0.005	0.01	10

3.3. Site Preparation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.1	29	29	0.05	1.2	—	1.2	1.1	—	1.1	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	20	20	—	10	10	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.40	0.39	< 0.005	0.02	—	0.02	0.02	—	0.02	—	73	73	< 0.005	< 0.005	—	73
Dust From Material Movement	—	—	—	—	—	0.27	0.27	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12	12	< 0.005	< 0.005	—	12
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	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

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.80	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	217	217	< 0.005	0.01	0.02	219
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.0	3.0	< 0.005	< 0.005	< 0.005	3.1
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.50	0.50	< 0.005	< 0.005	< 0.005	0.51
Vendor	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.6	15	17	0.03	0.65	—	0.65	0.59	—	0.59	—	2,960	2,960	0.12	0.02	—	2,970

Dust From Material Movement	—	—	—	—	—	7.1	7.1	—	3.4	3.4	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.33	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	65	65	< 0.005	< 0.005	—	65
Dust From Material Movement	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11	11	< 0.005	< 0.005	—	11
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.68	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	186	186	< 0.005	0.01	0.02	188
Vendor	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
Hauling	0.13	11	4.8	0.06	0.12	2.4	2.5	0.12	0.67	0.78	—	9,015	9,015	0.68	1.4	0.47	9,457

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.1	4.1	< 0.005	< 0.005	0.01	4.2
Vendor	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
Hauling	< 0.005	0.25	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	198	198	0.01	0.03	0.17	207
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.69
Vendor	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
Hauling	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	33	33	< 0.005	0.01	0.03	34

3.7. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.1	9.9	13	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.1	9.9	13	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	6.2	8.2	0.01	0.24	—	0.24	0.22	—	0.22	—	1,511	1,511	0.06	0.01	—	1,516

Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.1	1.5	< 0.005	0.04	—	0.04	0.04	—	0.04	—	250	250	0.01	< 0.005	—	251
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.34	5.9	0.00	0.00	1.5	1.5	0.00	0.34	0.34	—	1,458	1,458	0.02	0.05	5.1	1,479
Vendor	0.01	0.72	0.36	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	706	706	0.04	0.10	1.8	739
Hauling	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.39	5.1	0.00	0.00	1.5	1.5	0.00	0.34	0.34	—	1,387	1,387	0.02	0.05	0.13	1,404
Vendor	0.01	0.75	0.37	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	707	707	0.04	0.10	0.05	737
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.25	3.3	0.00	0.00	0.91	0.91	0.00	0.21	0.21	—	886	886	0.01	0.03	1.4	898
Vendor	0.01	0.47	0.23	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.04	—	445	445	0.02	0.06	0.50	465
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.61	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	147	147	< 0.005	0.01	0.23	149
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74	74	< 0.005	0.01	0.08	77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	6.2	8.8	0.01	0.26	—	0.26	0.24	—	0.24	—	1,350	1,350	0.05	0.01	—	1,355
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.31	0.43	< 0.005	0.01	—	0.01	0.01	—	0.01	—	67	67	< 0.005	< 0.005	—	67
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11	11	< 0.005	< 0.005	—	11
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.07	0.91	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	248	248	< 0.005	0.01	0.02	251
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12	12	< 0.005	< 0.005	0.02	13
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.1	2.1	< 0.005	< 0.005	< 0.005	2.1
Vendor	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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.1	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.01	0.04	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.6	6.6	< 0.005	< 0.005	—	6.6
Architectural Coatings	3.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.1	1.1	< 0.005	< 0.005	—	1.1
Architectural Coatings	0.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	1.0	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	277	277	< 0.005	0.01	0.03	281
Vendor	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
Hauling	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14	14	< 0.005	< 0.005	0.02	14
Vendor	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
Hauling	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.3	2.3	< 0.005	< 0.005	< 0.005	2.3
Vendor	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

Hauling	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
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4. Operations Emissions Details

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/2/2026	1/30/2026	5.0	20	—
Site Preparation	Site Preparation	1/31/2026	2/7/2026	5.0	5.0	—
Grading	Grading	2/8/2026	2/19/2026	5.0	8.0	—
Building Construction	Building Construction	1/2/2026	11/19/2026	5.0	230	—
Paving	Paving	12/1/2026	12/24/2026	5.0	18	—
Architectural Coating	Architectural Coating	12/1/2026	12/24/2026	5.0	18	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.0	8.0	367	0.40
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.0	33	0.73

Demolition	Excavators	Diesel	Average	3.0	8.0	36	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.0	8.0	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.0	8.0	84	0.37
Grading	Graders	Diesel	Average	1.00	8.0	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.0	36	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.0	8.0	84	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Building Construction	Cranes	Diesel	Average	1.00	7.0	367	0.29
Building Construction	Forklifts	Diesel	Average	3.0	8.0	82	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.0	14	0.74
Building Construction	Welders	Diesel	Average	1.00	8.0	46	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.0	7.0	84	0.37
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.0	84	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	2.0	6.0	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.0	81	0.42
Paving	Paving Equipment	Diesel	Average	2.0	6.0	89	0.36
Paving	Rollers	Diesel	Average	2.0	6.0	36	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.0	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	15	19	LDA,LDT1,LDT2
Demolition	Vendor	—	10	HHDT,MHDT

Demolition	Hauling	15	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	18	19	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10	HHDT,MHDT
Site Preparation	Hauling	0.00	20	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	15	19	LDA,LDT1,LDT2
Grading	Vendor	—	10	HHDT,MHDT
Grading	Hauling	132	20	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	112	19	LDA,LDT1,LDT2
Building Construction	Vendor	23	10	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	20	19	LDA,LDT1,LDT2
Paving	Vendor	—	10	HHDT,MHDT
Paving	Hauling	0.00	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	22	19	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	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)
Architectural Coating	258,552	86,184	75,944	25,315	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	26,736	0.00
Site Preparation	0.00	0.00	7.5	0.00	0.00
Grading	5,593	2,820	8.0	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Apartments Mid Rise	—	0%
Paving	Strip Mall	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12	annual days of extreme heat
Extreme Precipitation	5.2	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.59	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	0	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	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	55
AQ-PM	83
AQ-DPM	87
Drinking Water	78
Lead Risk Housing	62
Pesticides	0.00
Toxic Releases	92
Traffic	92
Effect Indicators	—
CleanUp Sites	65
Groundwater	11
Haz Waste Facilities/Generators	95
Impaired Water Bodies	0.00
Solid Waste	81

Sensitive Population	—
Asthma	33
Cardio-vascular	53
Low Birth Weights	29
Socioeconomic Factor Indicators	—
Education	62
Housing	39
Linguistic	47
Poverty	32
Unemployment	66

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	74.90055178
Employed	92.3649429
Median HI	68.29205697
Education	—
Bachelor's or higher	59.54061337
High school enrollment	100
Preschool enrollment	57.19235211
Transportation	—
Auto Access	82.44578468
Active commuting	63.55703837
Social	—
2-parent households	71.91068908
Voting	45.3997177

Neighborhood	—
Alcohol availability	16.30950853
Park access	48.36391634
Retail density	98.38316438
Supermarket access	79.84088284
Tree canopy	24.93263185
Housing	—
Homeownership	33.20929039
Housing habitability	35.94251251
Low-inc homeowner severe housing cost burden	90.99191582
Low-inc renter severe housing cost burden	54.20248941
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	60.5800077
Arthritis	0.0
Asthma ER Admissions	68.0
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	72.0
Cognitively Disabled	84.2
Physically Disabled	55.6
Heart Attack ER Admissions	53.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0

Obesity	0.0
Pedestrian Injuries	19.6
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	27.6
Elderly	67.6
English Speaking	54.0
Foreign-born	38.1
Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	27.3
Traffic Density	84.0
Traffic Access	87.4
Other Indices	—
Hardship	24.9
Other Decision Support	—
2016 Voting	73.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67

Healthy Places Index Score for Project Location (b)	74
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

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Revised schedule to 2026, kept default number of working days

BCSP - Buildout Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	BCSP - Buildout
Operational Year	2050
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.80000
Precipitation (days)	21.2000
Location	33.915263122982054, -117.88643108541962
County	Orange
City	Brea
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5752
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.37

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
Apartments Mid Rise	4,752.00	Dwelling Unit	125.053	4,561,920	0.00000	0.00000	13,542.0	—
Strip Mall	6,379.59	1000sqft	146.455	6,379,588	0.00000	0.00000	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	919.712	209.914	2,717.10	6.04510	108.752	436.566	545.318	106.673	110.738	217.411	19,941.3	556,539	576,480	736.407	20.3116	115.322	601,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	851.633	214.494	2,104.61	5.87186	108.140	436.566	544.705	106.210	110.738	216.948	19,941.3	540,013	559,955	737.075	21.0420	73.5190	584,726
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	548.971	146.285	1,813.20	3.93815	10.7863	430.622	441.408	10.4698	109.252	119.722	7,577.48	466,006	473,583	699.095	20.4836	90.9368	497,256
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	100.187	26.6971	330.909	0.71871	1.96850	78.5885	80.5570	1.91074	19.9385	21.8493	1,254.54	77,152.6	78,407.1	115.743	3.39129	15.0556	82,326.4

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	218.278	105.081	1,413.76	3.73173	1.31949	436.566	437.885	1.23156	110.738	111.970	—	380,093	380,093	15.6999	15.6829	42.9157	385,202

Area	700.090	81.2474	1,289.05	2.16675	105.575	—	105.575	103.584	—	103.584	13,272.9	86,910.7	100,184	40.7730	0.60918	—	101,384
Energy	1.34396	23.5851	14.2882	0.14661	1.85711	—	1.85711	1.85711	—	1.85711	—	86,369.4	86,369.4	9.82005	0.93245	—	86,892.7
Water	—	—	—	—	—	—	—	—	—	—	1,247.23	3,165.69	4,412.92	128.290	3.08716	—	8,540.13
Waste	—	—	—	—	—	—	—	—	—	—	5,421.15	0.00000	5,421.15	541.824	0.00000	—	18,966.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	72.4060	72.4060
Total	919.712	209.914	2,717.10	6.04510	108.752	436.566	545.318	106.673	110.738	217.411	19,941.3	556,539	576,480	736.407	20.3116	115.322	601,059
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	219.223	114.485	1,349.69	3.58674	1.32053	436.566	437.886	1.23256	110.738	111.971	—	365,429	365,429	16.4466	16.4290	1.11297	370,737
Area	631.066	76.4239	740.628	2.13851	104.962	—	104.962	103.121	—	103.121	13,272.9	85,048.9	98,321.9	40.6950	0.59341	—	99,516.1
Energy	1.34396	23.5851	14.2882	0.14661	1.85711	—	1.85711	1.85711	—	1.85711	—	86,369.4	86,369.4	9.82005	0.93245	—	86,892.7
Water	—	—	—	—	—	—	—	—	—	—	1,247.23	3,165.69	4,412.92	128.290	3.08716	—	8,540.13
Waste	—	—	—	—	—	—	—	—	—	—	5,421.15	0.00000	5,421.15	541.824	0.00000	—	18,966.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	72.4060	72.4060
Total	851.633	214.494	2,104.61	5.87186	108.140	436.566	544.705	106.210	110.738	216.948	19,941.3	540,013	559,955	737.075	21.0420	73.5190	584,726
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	216.631	114.162	1,372.55	3.62572	1.31993	430.622	431.942	1.23198	109.252	110.484	—	369,370	369,370	16.3201	16.4125	18.5308	374,688
Area	330.995	8.53833	426.361	0.16582	7.60927	—	7.60927	7.38074	—	7.38074	909.104	7,100.46	8,009.57	2.84075	0.05145	—	8,095.92
Energy	1.34396	23.5851	14.2882	0.14661	1.85711	—	1.85711	1.85711	—	1.85711	—	86,369.4	86,369.4	9.82005	0.93245	—	86,892.7
Water	—	—	—	—	—	—	—	—	—	—	1,247.23	3,165.69	4,412.92	128.290	3.08716	—	8,540.13
Waste	—	—	—	—	—	—	—	—	—	—	5,421.15	0.00000	5,421.15	541.824	0.00000	—	18,966.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	72.4060	72.4060
Total	548.971	146.285	1,813.20	3.93815	10.7863	430.622	441.408	10.4698	109.252	119.722	7,577.48	466,006	473,583	699.095	20.4836	90.9368	497,256
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	39.5352	20.8345	250.491	0.66169	0.24089	78.5885	78.8294	0.22484	19.9385	20.1634	—	61,153.5	61,153.5	2.70198	2.71728	3.06798	62,033.8
Area	60.4066	1.55825	77.8109	0.03026	1.38869	—	1.38869	1.34698	—	1.34698	150.513	1,175.56	1,326.08	0.47032	0.00852	—	1,340.37
Energy	0.24527	4.30427	2.60760	0.02676	0.33892	—	0.33892	0.33892	—	0.33892	—	14,299.4	14,299.4	1.62582	0.15438	—	14,386.1

Water	—	—	—	—	—	—	—	—	—	—	206.493	524.116	730.609	21.2398	0.51111	—	1,413.92
Waste	—	—	—	—	—	—	—	—	—	—	897.533	0.00000	897.533	89.7052	0.00000	—	3,140.16
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.9876	11.9876
Total	100.187	26.6971	330.909	0.71871	1.96850	78.5885	80.5570	1.91074	19.9385	21.8493	1,254.54	77,152.6	78,407.1	115.743	3.39129	15.0556	82,326.4

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.

4.2. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	12,446.4	12,446.4	1.57496	0.19090	—	12,542.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	44,767.1	44,767.1	5.66481	0.68664	—	45,113.4
Total	—	—	—	—	—	—	—	—	—	—	—	57,213.6	57,213.6	7.23978	0.87755	—	57,656.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	12,446.4	12,446.4	1.57496	0.19090	—	12,542.7

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	44,767.1	44,767.1	5.66481	0.68664	—	45,113.4
Total	—	—	—	—	—	—	—	—	—	—	—	57,213.6	57,213.6	7.23978	0.87755	—	57,656.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	2,060.65	2,060.65	0.26075	0.03161	—	2,076.58
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7,411.71	7,411.71	0.93787	0.11368	—	7,469.04
Total	—	—	—	—	—	—	—	—	—	—	—	9,472.36	9,472.36	1.19863	0.14529	—	9,545.62

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.77972	13.3261	5.67067	0.08506	1.07743	—	1.07743	1.07743	—	1.07743	—	16,915.1	16,915.1	1.49698	0.03185	—	16,962.0
Strip Mall	0.56424	10.2590	8.61756	0.06155	0.77968	—	0.77968	0.77968	—	0.77968	—	12,240.7	12,240.7	1.08330	0.02305	—	12,274.6
Total	1.34396	23.5851	14.2882	0.14661	1.85711	—	1.85711	1.85711	—	1.85711	—	29,155.8	29,155.8	2.58028	0.05490	—	29,236.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.77972	13.3261	5.67067	0.08506	1.07743	—	1.07743	1.07743	—	1.07743	—	16,915.1	16,915.1	1.49698	0.03185	—	16,962.0
Strip Mall	0.56424	10.2590	8.61756	0.06155	0.77968	—	0.77968	0.77968	—	0.77968	—	12,240.7	12,240.7	1.08330	0.02305	—	12,274.6
Total	1.34396	23.5851	14.2882	0.14661	1.85711	—	1.85711	1.85711	—	1.85711	—	29,155.8	29,155.8	2.58028	0.05490	—	29,236.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartment Mid Rise	0.14230	2.43201	1.03490	0.01552	0.19663	—	0.19663	0.19663	—	0.19663	—	2,800.49	2,800.49	0.24784	0.00527	—	2,808.26
Strip Mall	0.10297	1.87227	1.57270	0.01123	0.14229	—	0.14229	0.14229	—	0.14229	—	2,026.59	2,026.59	0.17935	0.00382	—	2,032.21
Total	0.24527	4.30427	2.60760	0.02676	0.33892	—	0.33892	0.33892	—	0.33892	—	4,827.08	4,827.08	0.42719	0.00909	—	4,840.47

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	372.887	76.4239	740.628	2.13851	104.962	—	104.962	103.121	—	103.121	13,272.9	85,048.9	98,321.9	40.6950	0.59341	—	99,516.1
Consumer Products	234.148	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	24.0299	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	69.0243	4.82358	548.424	0.02824	0.61334	—	0.61334	0.46381	—	0.46381	—	1,861.79	1,861.79	0.07799	0.01577	—	1,868.44
Total	700.090	81.2474	1,289.05	2.16675	105.575	—	105.575	103.584	—	103.584	13,272.9	86,910.7	100,184	40.7730	0.60918	—	101,384
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	372.887	76.4239	740.628	2.13851	104.962	—	104.962	103.121	—	103.121	13,272.9	85,048.9	98,321.9	40.6950	0.59341	—	99,516.1
Consumer Products	234.148	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	24.0299	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	631.066	76.4239	740.628	2.13851	104.962	—	104.962	103.121	—	103.121	13,272.9	85,048.9	98,321.9	40.6950	0.59341	—	99,516.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	4.66109	0.95530	9.25785	0.02673	1.31202	—	1.31202	1.28901	—	1.28901	150.513	964.440	1,114.95	0.46147	0.00673	—	1,128.49
Consumer Products	42.7321	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.38545	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	8.62804	0.60295	68.5531	0.00353	0.07667	—	0.07667	0.05798	—	0.05798	—	211.123	211.123	0.00884	0.00179	—	211.877
Total	60.4066	1.55825	77.8109	0.03026	1.38869	—	1.38869	1.34698	—	1.34698	150.513	1,175.56	1,326.08	0.47032	0.00852	—	1,340.37

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	341.707	867.313	1,209.02	35.1479	0.84580	—	2,339.76
Strip Mall	—	—	—	—	—	—	—	—	—	—	905.521	2,298.38	3,203.90	93.1417	2.24136	—	6,200.36
Total	—	—	—	—	—	—	—	—	—	—	1,247.23	3,165.69	4,412.92	128.290	3.08716	—	8,540.13

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	341.707	867.313	1,209.02	35.1479	0.84580	—	2,339.76
Strip Mall	—	—	—	—	—	—	—	—	—	—	905.521	2,298.38	3,203.90	93.1417	2.24136	—	6,200.36
Total	—	—	—	—	—	—	—	—	—	—	1,247.23	3,165.69	4,412.92	128.290	3.08716	—	8,540.13
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	56.5735	143.594	200.167	5.81913	0.14003	—	387.375
Strip Mall	—	—	—	—	—	—	—	—	—	—	149.919	380.522	530.442	15.4207	0.37108	—	1,026.54
Total	—	—	—	—	—	—	—	—	—	—	206.493	524.116	730.609	21.2398	0.51111	—	1,413.92

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,811.03	0.00000	1,811.03	181.006	0.00000	—	6,336.18
Strip Mall	—	—	—	—	—	—	—	—	—	—	3,610.12	0.00000	3,610.12	360.818	0.00000	—	12,630.6
Total	—	—	—	—	—	—	—	—	—	—	5,421.15	0.00000	5,421.15	541.824	0.00000	—	18,966.8

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,811.03	0.00000	1,811.03	181.006	0.00000	—	6,336.18
Strip Mall	—	—	—	—	—	—	—	—	—	—	3,610.12	0.00000	3,610.12	360.818	0.00000	—	12,630.6
Total	—	—	—	—	—	—	—	—	—	—	5,421.15	0.00000	5,421.15	541.824	0.00000	—	18,966.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	299.837	0.00000	299.837	29.9676	0.00000	—	1,049.03
Strip Mall	—	—	—	—	—	—	—	—	—	—	597.696	0.00000	597.696	59.7376	0.00000	—	2,091.14
Total	—	—	—	—	—	—	—	—	—	—	897.533	0.00000	897.533	89.7052	0.00000	—	3,140.16

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.6725	32.6725
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39.7335	39.7335
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	72.4060	72.4060

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.6725	32.6725
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	39.7335	39.7335
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	72.4060	72.4060
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.40930	5.40930
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.57834	6.57834
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.9876	11.9876

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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	126,156	126,156	126,156	46,046,940	617,899	617,899	617,899	225,533,135

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Apartments Mid Rise	Wood Fireplaces	71	71
Apartments Mid Rise	Gas Fireplaces	4,039	4,039
Apartments Mid Rise	Propane Fireplaces	0	0
Apartments Mid Rise	Electric Fireplaces	0	0
Apartments Mid Rise	No Fireplaces	642	642
Apartments Mid Rise	Conventional Wood Stoves	0	0
Apartments Mid Rise	Catalytic Wood Stoves	71	71

Apartments Mid Rise	Non-Catalytic Wood Stoves	71	71
Apartments Mid Rise	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
9,237,888	3,079,296	9,569,382	3,189,794	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

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)
Apartments Mid Rise	17,420,044	260.788	0.0330	0.0040	52,779,717

Strip Mall	62,656,271	260.788	0.0330	0.0040	38,194,237
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5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	178,321,889	0.00000
Strip Mall	472,552,169	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	3,360.36	0.00000
Strip Mall	6,698.57	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088.00	0.00225	2.50000	2.50000	10.00000
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430.00	0.11538	0.60000	0.00000	1.000000
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088.00	0.00180	4.00000	4.00000	18.0000
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430.00	0.03750	1.000000	0.00000	1.000000

Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922.00	0.00040	7.50000	7.50000	20.0000
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	12.3100	annual days of extreme heat
Extreme Precipitation	5.15000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.59000	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	0	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	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	55.3827

AQ-PM	82.9869
AQ-DPM	86.7704
Drinking Water	78.3315
Lead Risk Housing	61.6887
Pesticides	0.00000
Toxic Releases	92.3981
Traffic	92.4000
Effect Indicators	—
CleanUp Sites	64.8750
Groundwater	10.6425
Haz Waste Facilities/Generators	94.7981
Impaired Water Bodies	0.00000
Solid Waste	81.1913
Sensitive Population	—
Asthma	33.0010
Cardio-vascular	52.6171
Low Birth Weights	28.9582
Socioeconomic Factor Indicators	—
Education	61.6553
Housing	38.7833
Linguistic	47.0835
Poverty	32.0477
Unemployment	65.6299

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	74.90055178
Employed	92.3649429
Median HI	68.29205697
Education	—
Bachelor's or higher	59.54061337
High school enrollment	100
Preschool enrollment	57.19235211
Transportation	—
Auto Access	82.44578468
Active commuting	63.55703837
Social	—
2-parent households	71.91068908
Voting	45.3997177
Neighborhood	—
Alcohol availability	16.30950853
Park access	48.36391634
Retail density	98.38316438
Supermarket access	79.84088284
Tree canopy	24.93263185
Housing	—
Homeownership	33.20929039
Housing habitability	35.94251251
Low-inc homeowner severe housing cost burden	90.99191582
Low-inc renter severe housing cost burden	54.20248941
Uncrowded housing	49.60862312
Health Outcomes	—
Insured adults	60.5800077
Arthritis	0.0

Asthma ER Admissions	68.0
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	72.0
Cognitively Disabled	84.2
Physically Disabled	55.6
Heart Attack ER Admissions	53.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
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	27.6
Elderly	67.6
English Speaking	54.0
Foreign-born	38.1

Outdoor Workers	64.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	27.3
Traffic Density	84.0
Traffic Access	87.4
Other Indices	—
Hardship	24.9
Other Decision Support	—
2016 Voting	73.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	67.0000
Healthy Places Index Score for Project Location (b)	74.0000
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

8.1. Justifications

Screen	Justification
Land Use	Revised population based on City estimate
Operations: Hearths	Assume no new wood hearths/stove per SCAQMD Rule 445

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Landscape Area	sq. ft	—	0.00000
Special Landscape Area	sq. ft	—	0.00000
Population	people	14,161.0	13,542.0

8.5. Operations

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Default Value	New Value
Apartments Mid Rise	Wood Fireplaces	238	71
Apartments Mid Rise	No Fireplaces	475	642
Apartments Mid Rise	Catalytic Wood Stoves	238	71
Apartments Mid Rise	Non-Catalytic Wood Stoves	238	71