

Appendix C.2

AQ-GHG Operational Memo Urban Crossroads, 2023

Travertine SPA
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Technical Appendices

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DATE: January 31, 2023
TO: Mike Cho, TRG Land Inc
FROM: Haseeb Qureshi
Ali Dadabhoy
JOB NO: 12188-08 AQ & GHG Assessment

TRAVERTINE SPECIFIC PLAN AIR QUALITY AND GREENHOUSE GAS ASSESSMENT

Mike Cho,

Urban Crossroads, Inc. is pleased to provide the following Air Quality and Greenhouse Gas Assessment for the Travertine Specific Plan (**Project**), which is located south of the hypothetical westerly extension of Avenue 60 and west of the hypothetical southerly extension of Madison Street in the City of La Quinta.

BACKGROUND

The Project evaluated in the 2022 Air Quality and Greenhouse Gas Analysis included the development of 758 single family detached residential homes, 442 duplex residential units, a 100-room resort hotel, and other resort/golf facilities located in Planning Area 11 (PA 11). The preliminary land use plan for the proposed Project is shown on Exhibit 1. PA 11 consists of 46.2 acres and includes the following land uses:

- Golf Practice (4-Holes) & Driving Range: 23.9 Acres (up to 1,000 sf of clubhouse area)
- Golf Academy: 4.7 Acres (up to 5,500 sf of indoor floor area)
- Banquet Facility & Restaurant: 4.6 Acres (up to 10,000 sf of indoor floor area)
- Slopes: 13.0 Acres (passive outdoor use)

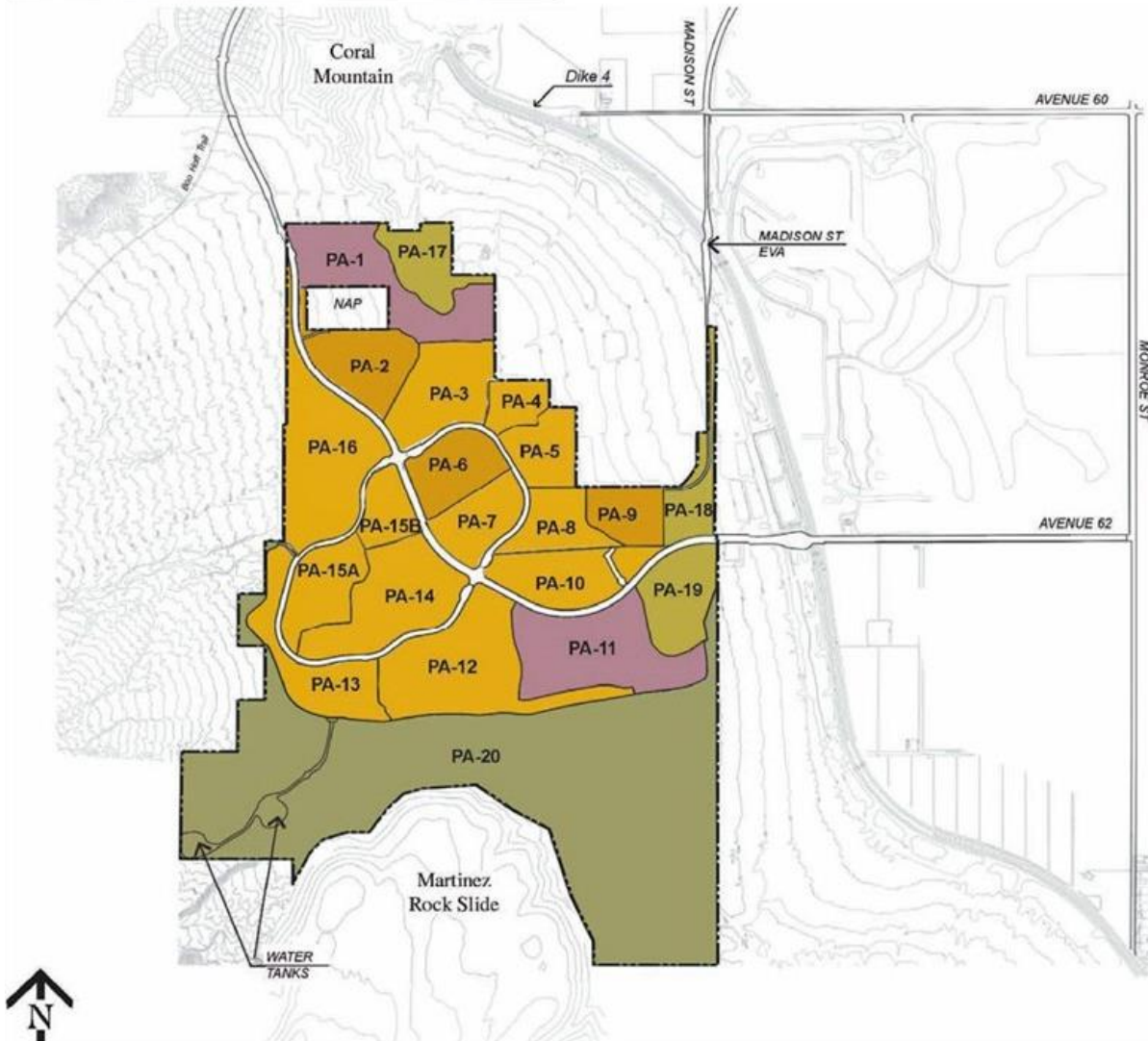
EXHIBIT 1: PRELIMINARY SITE PLAN

PHASE 1-A Constuction/Sales						
PA	Land Use	Acres	Density Range	Target Density	Target Units	Villas
10	Low Density Residential	25.6	1.5-4.5 du/ac	2.9	75	
11	Resort / Golf	46.2				
12	Low Density Residential	52.2	1.5-4.5 du/ac	2.0	107	
13	Low Density Residential	26.7	1.5-4.5 du/ac	1.8	48	
14	Low Density Residential	39.0	1.5-4.5 du/ac	1.7	65	
15-A	Low Density Residential	20.9	1.5-4.5 du/ac	2.1	44	
19	Open Space Recreation	23.1				
20	Open Space Natural	301.2				
Phase 1-A Totals		534.9		0.6	339	

PHASE 2 Constuction/Sales						
PA	Land Use	Acres	Density Range	Target Density	Target Units	Villas
4	Low Density Residential	9.6	1.5-4.5 du/ac	2.8	27	
6	Medium Density Residential	20.1	4.5-8.5 du/ac	8.1	163	
16	Low Density Residential	50.4	1.5-4.5 du/ac	2.3	116	
Phase 2 Totals		80.1		3.8	306	

PHASE 1-B Constuction/Sales						
PA	Land Use	Acres	Density Range	Target Density	Target Units	Villas
5	Low Density Residential	16.2	1.5-4.5 du/ac	1.9	31	
7	Low Density Residential	18.7	1.5-4.5 du/ac	3.3	61	
8	Low Density Residential	16.9	1.5-4.5 du/ac	4.3	73	
9	Medium Density Residential	14.8	4.5-8.5 du/ac	5.0	74	
15-B	Low Density Residential	12.4	1.5-4.5 du/ac	2.1	26	
18	Open Space Recreation	14.7				
Phase 1-B Totals		93.7		2.8	265	

PHASE 3 Constuction/Sales						
PA	Land Use	Acres	Density Range	Target Density	Target Units	Villas
1	Resort / Spa	38.3				100
2	Medium Density Residential	25.9	4.5-8.5 du/ac	7.9	205	
3	Low Density Residential	29.4	1.5-4.5 du/ac	2.9	85	
17	Open Space Recreation	18.1				
Phase 3 Totals		111.7		2.6	290	100



In May 2022, the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released the latest version of the CalEEMod Version 2022. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_x, SO_x, CO, PM₁₀, and PM_{2.5}) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from MMs.

The previously completed Travertine Specific Plan Air Quality Impact Analysis (dated January 30, 2022) and Travertine Specific Plan Greenhouse Gas Analysis (dated January 30, 2022) (referred to herein as “previous technical study”) were prepared before the release of CalEEMod Version 2022.1. Accordingly, the latest version of CalEEMod has been used for this Project to determine operational emissions. Output from the model runs for the proposed Project operational activity are provided in Attachments A through C.

Operational emissions were modeled in CalEEMod 2022 utilizing the opening year assumptions detailed in the previous technical studies for each phase, as shown below.

- Phase 1: 2026
- Phase 2: 2029
- Phase 3: 2031

AIR QUALITY EMISSIONS

As shown on Table 1, the Project would not exceed the numerical thresholds of significance established by the SCAQMD for VOC emissions, consistent with the previously completed technical reports.

Similar to the previously completed technical reports, it is important to note that the majority of VOC emissions are derived from consumer products. For analytical purposes, consumer products include cleaning supplies, aerosols, and other consumer products. As such, the Project Applicant cannot meaningfully control the use of consumer products by future building users via mitigation. On this basis, it is concluded that Project operational-source VOC emissions cannot be definitively reduced below applicable SCQMD thresholds.

TABLE 1: SUMMARY OF PEAK OPERATIONAL EMISSIONS (1 OF 2)

Summer Scenario	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Phase 1 (2026)						
Mobile Source	22.50	19.80	196.00	0.45	14.60	2.82
Area Source	41.80	10.90	105.00	0.07	0.91	0.94
Energy Source	0.30	5.08	2.16	0.03	0.41	0.41
Total Maximum Daily Emissions	64.60	35.78	303.16	0.55	15.92	4.17
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

Summer Scenario	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Phase 2 (2029) ¹						
Mobile Source	27.90	24.40	247.00	0.61	21.10	4.03
Area Source	54.10	16.10	124.00	0.10	1.33	1.36
Energy Source	0.41	7.06	3.00	0.05	0.57	0.57
Total Maximum Daily Emissions	82.41	47.56	374.00	0.76	23.00	5.96
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	YES	NO	NO	NO	NO	NO
Phase 3 (2031) ²						
Mobile Source	34.70	30.60	314.00	0.80	28.80	5.46
Area Source	61.50	20.60	88.20	0.13	1.65	1.66
Energy Source	0.64	11.10	5.74	0.07	0.89	0.89
Total Maximum Daily Emissions	96.84	62.30	407.94	1.00	31.34	8.01
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	YES	NO	NO	NO	NO	NO

¹Emissions for Phase 2 operational emissions are inclusive of Phase 1.

²Emissions for Phase 3 operational emissions are inclusive of Phases 1 and 2.

TABLE 2: SUMMARY OF PEAK OPERATIONAL EMISSIONS (2 OF 2)

Winter Scenario	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Phase 1 (2026)						
Mobile Source	18.00	21.50	136.00	0.40	14.60	2.82
Area Source	28.00	10.00	4.26	0.06	0.81	0.81
Energy Source	0.30	5.08	2.16	0.03	0.41	0.41
Total Maximum Daily Emissions	46.30	36.58	142.42	0.49	15.82	4.04
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO
Phase 2 (2029) ¹						
Mobile Source	22.70	26.40	172.00	0.54	21.10	4.03
Area Source	38.70	15.10	6.42	0.10	1.22	1.22
Energy Source	0.41	7.06	3.00	0.05	0.57	0.57
Total Maximum Daily Emissions	61.81	48.56	181.42	0.69	22.89	5.82
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

Winter Scenario	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Phase 3 (2031) ²						
Mobile Source	28.60	33.20	219.00	0.72	28.80	5.46
Area Source	53.80	19.90	8.47	0.13	1.61	1.61
Energy Source	0.64	11.10	5.74	0.07	0.89	0.89
Total Maximum Daily Emissions	83.04	64.20	233.21	0.92	31.30	7.96
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	YES	NO	NO	NO	NO	NO

¹Emissions for Phase 2 operational emissions are inclusive of Phase 1.

² Emissions for Phase 3 operational emissions are inclusive of Phases 1 and 2.

PROJECT GREENHOUSE GAS ANALYSIS

Greenhouse gas emissions resulting from operation of the proposed Project was also modeled using CalEEMod 2022. However, all other assumptions and inputs remain consistent with previous technical studies. Table 3 below presents the operational GHG emissions from CalEEMod 2022.

TABLE 3: TOTAL ANNUAL PROJECT GHG EMISSIONS

Source	Emissions (MT/yr)				
	CO ₂	CH ₄	N ₂ O	R	Total CO ₂ E
Annual construction-related emissions amortized over 30 years	896.76	2.00E-01	0.00E+00	N/A	893.07
Mobile Source	12,059.00	0.45	0.57	10.00	12,250.00
Area Source	305.00	0.01	< 0.005	0.00	306.00
Energy Source	3,759.00	0.40	0.03	0.00	3,777.00
Water	117.00	1.68	0.04	0.00	171.00
Waste	81.50	8.14	0.00	0.00	285.00
Refrigerants	0.00	0.00	0.00	26.40	26.40
Total CO₂E (All Sources)			17,708.47		
Service Population			3,700		
Total CO₂e/Service Population			4.79		
SCAQMD Threshold			2.41		
Threshold Exceeded?			YES		

The Project would result in 4.79 MTCO₂e/SP per year in 2031 as summarized in Table 2 (presented previously). As such, the Project total GHG emissions would exceed the screening threshold of 2.41 MTCO₂e/SP per year. Thus, Project-related emissions would have a potential significant direct or indirect impact on GHG and climate change.

AIR QUALITY & GREENHOUSE GAS CONCLUSION

Results of the assessment indicate that the Project is not anticipated to result in any significant impacts beyond those already disclosed in the previously prepared technical reports.

ATTACHMENT A
CALEEMOD PHASE 1 OPERATIONAL EMISSIONS

12188 Travertine Specific Plan Operations (Phase 1) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	12188 Travertine Specific Plan Operations (Phase 1)
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	8.80
Location	33.596022, -116.260583
County	Riverside-Salton Sea
City	La Quinta
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5665
EDFZ	19
Electric Utility	Imperial Irrigation District
Gas Utility	Southern California Gas

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
Other Asphalt Surfaces	35.0	Acre	35.0	1,524,600	0.00	—	—	—
Golf Course	12.0	Hole	46.2	0.00	0.00	0.00	—	—

Apartments Low Rise	74.0	Dwelling Unit	14.8	78,440	0.00	—	201	—
Single Family Housing	530	Dwelling Unit	228	1,033,500	6,207,814	—	1,436	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	41.0	64.7	35.8	303	0.55	1.64	14.3	15.9	1.65	2.52	4.18	292	69,590	69,882	32.5	2.40	147	71,556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.5	46.3	36.6	142	0.49	1.54	14.3	15.8	1.52	2.52	4.04	292	64,165	64,457	32.5	2.36	10.7	65,986
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.2	53.1	26.1	199	0.44	0.82	13.8	14.6	0.82	2.44	3.25	292	52,986	53,278	32.2	2.27	65.2	54,824
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.15	9.69	4.76	36.4	0.08	0.15	2.52	2.67	0.15	0.44	0.59	48.4	8,772	8,821	5.33	0.38	10.8	9,077

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)

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Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.3	22.5	19.8	196	0.45	0.32	14.3	14.6	0.30	2.52	2.82	—	45,729	45,729	1.76	2.09	140	46,534
Area	16.1	41.8	10.9	105	0.07	0.91	—	0.91	0.94	—	0.94	0.00	13,082	13,082	0.25	0.12	—	13,124
Energy	0.59	0.30	5.08	2.16	0.03	0.41	—	0.41	0.41	—	0.41	—	10,366	10,366	1.06	0.07	—	10,414
Water	—	—	—	—	—	—	—	—	—	—	—	47.1	413	460	4.88	0.12	—	618
Waste	—	—	—	—	—	—	—	—	—	—	—	245	0.00	245	24.5	0.00	—	857
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.12	7.12
Total	41.0	64.7	35.8	303	0.55	1.64	14.3	15.9	1.65	2.52	4.18	292	69,590	69,882	32.5	2.40	147	71,556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	19.7	18.0	21.5	136	0.40	0.32	14.3	14.6	0.30	2.52	2.82	—	40,668	40,668	1.87	2.15	3.62	41,358
Area	1.17	28.0	10.0	4.26	0.06	0.81	—	0.81	0.81	—	0.81	0.00	12,718	12,718	0.24	0.02	—	12,731
Energy	0.59	0.30	5.08	2.16	0.03	0.41	—	0.41	0.41	—	0.41	—	10,366	10,366	1.06	0.07	—	10,414
Water	—	—	—	—	—	—	—	—	—	—	—	47.1	413	460	4.88	0.12	—	618
Waste	—	—	—	—	—	—	—	—	—	—	—	245	0.00	245	24.5	0.00	—	857
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.12	7.12
Total	21.5	46.3	36.6	142	0.49	1.54	14.3	15.8	1.52	2.52	4.04	292	64,165	64,457	32.5	2.36	10.7	65,986
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	20.2	18.5	19.9	147	0.40	0.31	13.8	14.1	0.29	2.44	2.72	—	41,156	41,156	1.73	2.03	58.1	41,861
Area	7.45	34.3	1.12	49.9	0.01	0.11	—	0.11	0.12	—	0.12	0.00	1,051	1,051	0.02	0.05	—	1,066
Energy	0.59	0.30	5.08	2.16	0.03	0.41	—	0.41	0.41	—	0.41	—	10,366	10,366	1.06	0.07	—	10,414
Water	—	—	—	—	—	—	—	—	—	—	—	47.1	413	460	4.88	0.12	—	618
Waste	—	—	—	—	—	—	—	—	—	—	—	245	0.00	245	24.5	0.00	—	857
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.12	7.12

Total	28.2	53.1	26.1	199	0.44	0.82	13.8	14.6	0.82	2.44	3.25	292	52,986	53,278	32.2	2.27	65.2	54,824
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.69	3.38	3.63	26.9	0.07	0.06	2.52	2.58	0.05	0.44	0.50	—	6,814	6,814	0.29	0.34	9.62	6,931
Area	1.36	6.26	0.20	9.11	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	174	174	< 0.005	0.01	—	176
Energy	0.11	0.05	0.93	0.39	0.01	0.07	—	0.07	0.07	—	0.07	—	1,716	1,716	0.18	0.01	—	1,724
Water	—	—	—	—	—	—	—	—	—	—	—	7.79	68.4	76.2	0.81	0.02	—	102
Waste	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.05	0.00	—	142
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18
Total	5.15	9.69	4.76	36.4	0.08	0.15	2.52	2.67	0.15	0.44	0.59	48.4	8,772	8,821	5.33	0.38	10.8	9,077

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	1.34	1.24	1.09	10.8	0.02	0.02	0.79	0.81	0.02	0.14	0.16	—	2,520	2,520	0.10	0.12	7.69	2,565
Apartments Low Rise	2.44	2.27	1.99	19.6	0.04	0.03	1.44	1.47	0.03	0.25	0.28	—	4,595	4,595	0.18	0.21	14.0	4,676

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Single Family Housing	20.5	19.0	16.8	165	0.38	0.27	12.1	12.3	0.25	2.13	2.38	—	38,613	38,613	1.49	1.76	118	39,294
Total	24.3	22.5	19.8	196	0.45	0.32	14.3	14.6	0.30	2.52	2.82	—	45,729	45,729	1.76	2.09	140	46,534
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	1.09	0.99	1.19	7.49	0.02	0.02	0.79	0.81	0.02	0.14	0.16	—	2,241	2,241	0.10	0.12	0.20	2,280
Apartments Low Rise	1.98	1.81	2.16	13.6	0.04	0.03	1.44	1.47	0.03	0.25	0.28	—	4,087	4,087	0.19	0.22	0.36	4,156
Single Family Housing	16.7	15.2	18.2	115	0.34	0.27	12.1	12.4	0.25	2.13	2.38	—	34,340	34,340	1.58	1.81	3.05	34,922
Total	19.7	18.0	21.5	136	0.40	0.32	14.3	14.6	0.30	2.52	2.82	—	40,668	40,668	1.87	2.15	3.62	41,358
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	0.19	0.17	0.19	1.38	< 0.005	< 0.005	0.13	0.13	< 0.005	0.02	0.03	—	349	349	0.01	0.02	0.49	355
Apartments Low Rise	0.34	0.32	0.34	2.51	0.01	0.01	0.23	0.24	< 0.005	0.04	0.05	—	635	635	0.03	0.03	0.90	646
Single Family Housing	3.15	2.90	3.10	23.0	0.06	0.05	2.16	2.20	0.04	0.38	0.43	—	5,830	5,830	0.24	0.29	8.23	5,930
Total	3.69	3.38	3.63	26.9	0.07	0.06	2.52	2.58	0.05	0.44	0.50	—	6,814	6,814	0.29	0.34	9.62	6,931

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	364	364	0.05	0.01	—	367
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,559	3,559	0.45	0.05	—	3,586
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,923	3,923	0.49	0.06	—	3,953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	364	364	0.05	0.01	—	367
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,559	3,559	0.45	0.05	—	3,586
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,923	3,923	0.49	0.06	—	3,953

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	60.3	60.3	0.01	< 0.005	—	60.8
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	589	589	0.07	0.01	—	594
Total	—	—	—	—	—	—	—	—	—	—	—	—	649	649	0.08	0.01	—	654

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.04	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	—	402	402	0.04	< 0.005	—	404
Single Family Housing	0.56	0.28	4.76	2.03	0.03	0.38	—	0.38	0.38	—	0.38	—	6,041	6,041	0.53	0.01	—	6,058
Total	0.59	0.30	5.08	2.16	0.03	0.41	—	0.41	0.41	—	0.41	—	6,443	6,443	0.57	0.01	—	6,461

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.04	0.02	0.32	0.13	< 0.005	0.03	—	0.03	0.03	—	0.03	—	402	402	0.04	< 0.005	—	404
Single Family Housing	0.56	0.28	4.76	2.03	0.03	0.38	—	0.38	0.38	—	0.38	—	6,041	6,041	0.53	0.01	—	6,058
Total	0.59	0.30	5.08	2.16	0.03	0.41	—	0.41	0.41	—	0.41	—	6,443	6,443	0.57	0.01	—	6,461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.01	< 0.005	0.06	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	66.6	66.6	0.01	< 0.005	—	66.8
Single Family Housing	0.10	0.05	0.87	0.37	0.01	0.07	—	0.07	0.07	—	0.07	—	1,000	1,000	0.09	< 0.005	—	1,003
Total	0.11	0.05	0.93	0.39	0.01	0.07	—	0.07	0.07	—	0.07	—	1,067	1,067	0.09	< 0.005	—	1,070

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

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Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.17	0.59	10.0	4.26	0.06	0.81	—	0.81	0.81	—	0.81	0.00	12,718	12,718	0.24	0.02	—	12,731
Consumer Products	—	25.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	14.9	13.9	0.88	101	0.01	0.10	—	0.10	0.13	—	0.13	—	364	364	0.02	0.10	—	393
Total	16.1	41.8	10.9	105	0.07	0.91	—	0.91	0.94	—	0.94	0.00	13,082	13,082	0.25	0.12	—	13,124
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.17	0.59	10.0	4.26	0.06	0.81	—	0.81	0.81	—	0.81	0.00	12,718	12,718	0.24	0.02	—	12,731
Consumer Products	—	25.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.17	28.0	10.0	4.26	0.06	0.81	—	0.81	0.81	—	0.81	0.00	12,718	12,718	0.24	0.02	—	12,731
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	0.01	0.13	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	144	144	< 0.005	< 0.005	—	144
Consumer Products	—	4.62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.34	1.25	0.08	9.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.7	29.7	< 0.005	0.01	—	32.1
Total	1.36	6.26	0.20	9.11	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	174	174	< 0.005	0.01	—	176

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	5.77	10.3	16.0	0.59	0.01	—	35.1
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	41.3	403	444	4.29	0.11	—	583
Total	—	—	—	—	—	—	—	—	—	—	—	47.1	413	460	4.88	0.12	—	618
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	5.77	10.3	16.0	0.59	0.01	—	35.1
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	41.3	403	444	4.29	0.11	—	583
Total	—	—	—	—	—	—	—	—	—	—	—	47.1	413	460	4.88	0.12	—	618
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	0.95	1.70	2.65	0.10	< 0.005	—	5.81
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	6.84	66.7	73.5	0.71	0.02	—	96.5
Total	—	—	—	—	—	—	—	—	—	—	—	7.79	68.4	76.2	0.81	0.02	—	102

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.86	0.00	0.86	0.09	0.00	—	3.01
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	24.8	0.00	24.8	2.48	0.00	—	86.8
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	219	0.00	219	21.9	0.00	—	768
Total	—	—	—	—	—	—	—	—	—	—	—	245	0.00	245	24.5	0.00	—	857
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.86	0.00	0.86	0.09	0.00	—	3.01
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	24.8	0.00	24.8	2.48	0.00	—	86.8
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	219	0.00	219	21.9	0.00	—	768
Total	—	—	—	—	—	—	—	—	—	—	—	245	0.00	245	24.5	0.00	—	857
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.14	0.00	0.14	0.01	0.00	—	0.50
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	4.11	0.00	4.11	0.41	0.00	—	14.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	36.3	0.00	36.3	3.63	0.00	—	127
Total	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.05	0.00	—	142

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.50	0.50
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.62	6.62
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.12	7.12
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Apartment Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.50	0.50
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.62	6.62
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.12	7.12
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.10	1.10
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.18	1.18

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	328	215	204	107,341	2,853	1,869	1,775	933,869
Apartments Low Rise	537	598	461	195,282	4,674	5,202	4,011	1,698,956
Single Family Housing	4,971	5,024	4,500	1,792,729	43,251	43,712	39,147	15,596,740

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	74
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	530
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	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)
2251678.5	750,560	96,423	32,141	91,476

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

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)
Other Asphalt Surfaces	0.00	262	0.0330	0.0040	0.00
Golf Course	0.00	262	0.0330	0.0040	0.00
Apartments Low Rise	506,663	262	0.0330	0.0040	1,255,796
Single Family Housing	4,949,799	262	0.0330	0.0040	18,849,086

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Other Asphalt Surfaces	0.00	0.00
Golf Course	0.00	0.00
Apartments Low Rise	3,009,859	0.00
Single Family Housing	21,557,101	142,380,872

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Other Asphalt Surfaces	0.00	0.00
Golf Course	1.60	0.00
Apartments Low Rise	16.9	0.00
Single Family Housing	150	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Golf Course	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
—	—

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	24.1	annual days of extreme heat
Extreme Precipitation	0.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.74	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	77.1

AQ-PM	7.31
AQ-DPM	9.38
Drinking Water	67.0
Lead Risk Housing	31.7
Pesticides	95.0
Toxic Releases	3.14
Traffic	6.09
Effect Indicators	—
CleanUp Sites	22.6
Groundwater	0.00
Haz Waste Facilities/Generators	35.6
Impaired Water Bodies	97.5
Solid Waste	83.3
Sensitive Population	—
Asthma	21.2
Cardio-vascular	47.3
Low Birth Weights	53.8
Socioeconomic Factor Indicators	—
Education	96.2
Housing	77.2
Linguistic	99.1
Poverty	95.5
Unemployment	93.8

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
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Economic	—
Above Poverty	2.527909663
Employed	8.956756063
Median HI	7.262928269
Education	—
Bachelor's or higher	24.75298345
High school enrollment	22.50737842
Preschool enrollment	7.814705505
Transportation	—
Auto Access	49.51879892
Active commuting	13.6147825
Social	—
2-parent households	34.82612601
Voting	66.44424484
Neighborhood	—
Alcohol availability	91.1587322
Park access	5.389452072
Retail density	5.864237136
Supermarket access	2.399589375
Tree canopy	8.404978827
Housing	—
Homeownership	77.35146927
Housing habitability	8.956756063
Low-inc homeowner severe housing cost burden	12.29308354
Low-inc renter severe housing cost burden	61.6963942
Uncrowded housing	15.89888361
Health Outcomes	—

Insured adults	2.463749519
Arthritis	0.0
Asthma ER Admissions	63.9
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	81.1
Cognitively Disabled	76.7
Physically Disabled	74.5
Heart Attack ER Admissions	49.3
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	39.9
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	16.3

Elderly	50.9
English Speaking	2.2
Foreign-born	93.3
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	96.0
Traffic Density	2.2
Traffic Access	23.0
Other Indices	—
Hardship	97.8
Other Decision Support	—
2016 Voting	63.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	EasternCoachellaValley

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Per the Travertine Specific Plan Phasing Plan by Urban Crossroads, Inc., the Service Population for residential uses is 3,250 (2.71 PPH)
Operations: Vehicle Data	Trip Characteristics based on information provided in the Travertine Specific Plan Traffic Phasing Plan Analysis by Urban Crossroads, Inc.
Operations: Hearths	SCAQMD Rule 445
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

ATTACHMENT B
CALEEMOD PHASE 2 OPERATIONAL EMISSIONS

12188 Travertine Specific Plan Operations (Phase 2) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	12188 Travertine Specific Plan Operations (Phase 2)
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	8.80
Location	33.596022, -116.260583
County	Riverside-Salton Sea
City	La Quinta
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5665
EDFZ	19
Electric Utility	Imperial Irrigation District
Gas Utility	Southern California Gas

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
Other Asphalt Surfaces	35.0	Acre	35.0	1,524,600	0.00	—	—	—
Golf Course	12.0	Hole	46.2	0.00	0.00	0.00	—	—

Apartments Low Rise	237	Dwelling Unit	34.9	251,220	0.00	—	642	—
Single Family Housing	673	Dwelling Unit	288	1,312,350	7,882,753	—	1,824	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	49.2	82.4	47.6	374	0.76	2.30	20.7	23.0	2.31	3.66	5.97	430	96,783	97,212	47.3	3.14	150	99,481
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.5	61.8	48.6	182	0.68	2.19	20.7	22.9	2.17	3.66	5.82	430	89,527	89,957	47.4	3.17	13.7	92,102
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	34.2	68.9	32.9	247	0.60	1.09	19.8	20.9	1.09	3.50	4.58	430	72,047	72,477	46.9	2.98	68.0	74,605
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.25	12.6	6.00	45.0	0.11	0.20	3.61	3.81	0.20	0.64	0.84	71.1	11,928	11,999	7.77	0.49	11.3	12,352

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)

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Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	30.1	27.9	24.4	247	0.61	0.40	20.7	21.1	0.38	3.66	4.03	—	62,331	62,331	2.25	2.78	140	63,355
Area	18.3	54.1	16.1	124	0.10	1.33	—	1.33	1.36	—	1.36	0.00	19,572	19,572	0.38	0.07	—	19,603
Energy	0.83	0.41	7.06	3.00	0.05	0.57	—	0.57	0.57	—	0.57	—	14,363	14,363	1.51	0.10	—	14,431
Water	—	—	—	—	—	—	—	—	—	—	—	70.9	517	588	7.34	0.18	—	826
Waste	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,255
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.0	10.0
Total	49.2	82.4	47.6	374	0.76	2.30	20.7	23.0	2.31	3.66	5.97	430	96,783	97,212	47.3	3.14	150	99,481
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.9	22.7	26.4	172	0.54	0.40	20.7	21.1	0.38	3.66	4.03	—	55,486	55,486	2.38	2.85	3.64	56,399
Area	1.77	38.7	15.1	6.42	0.10	1.22	—	1.22	1.22	—	1.22	0.00	19,161	19,161	0.36	0.04	—	19,181
Energy	0.83	0.41	7.06	3.00	0.05	0.57	—	0.57	0.57	—	0.57	—	14,363	14,363	1.51	0.10	—	14,431
Water	—	—	—	—	—	—	—	—	—	—	—	70.9	517	588	7.34	0.18	—	826
Waste	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,255
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.0	10.0
Total	27.5	61.8	48.6	182	0.68	2.19	20.7	22.9	2.17	3.66	5.82	430	89,527	89,957	47.4	3.17	13.7	92,102
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.1	23.1	24.2	185	0.54	0.38	19.8	20.2	0.36	3.50	3.86	—	55,652	55,652	2.18	2.67	58.0	56,561
Area	8.28	45.5	1.55	58.7	0.01	0.14	—	0.14	0.15	—	0.15	0.00	1,515	1,515	0.03	0.02	—	1,522
Energy	0.83	0.41	7.06	3.00	0.05	0.57	—	0.57	0.57	—	0.57	—	14,363	14,363	1.51	0.10	—	14,431
Water	—	—	—	—	—	—	—	—	—	—	—	70.9	517	588	7.34	0.18	—	826
Waste	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,255
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.0	10.0

Total	34.2	68.9	32.9	247	0.60	1.09	19.8	20.9	1.09	3.50	4.58	430	72,047	72,477	46.9	2.98	68.0	74,605
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.59	4.21	4.42	33.8	0.10	0.07	3.61	3.68	0.07	0.64	0.70	—	9,214	9,214	0.36	0.44	9.60	9,364
Area	1.51	8.30	0.28	10.7	< 0.005	0.02	—	0.02	0.03	—	0.03	0.00	251	251	0.01	< 0.005	—	252
Energy	0.15	0.08	1.29	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	2,378	2,378	0.25	0.02	—	2,389
Water	—	—	—	—	—	—	—	—	—	—	—	11.7	85.7	97.4	1.22	0.03	—	137
Waste	—	—	—	—	—	—	—	—	—	—	—	59.4	0.00	59.4	5.94	0.00	—	208
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.66	1.66
Total	6.25	12.6	6.00	45.0	0.11	0.20	3.61	3.81	0.20	0.64	0.84	71.1	11,928	11,999	7.77	0.49	11.3	12,352

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	1.08	1.01	0.88	8.89	0.02	0.01	0.75	0.76	0.01	0.13	0.15	—	2,246	2,246	0.08	0.10	5.06	2,283
Apartments Low Rise	6.69	6.20	5.43	54.9	0.14	0.09	4.60	4.69	0.08	0.81	0.90	—	13,858	13,858	0.50	0.62	31.2	14,086

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Single Family Housing	22.3	20.7	18.1	183	0.45	0.30	15.4	15.7	0.28	2.71	2.99	—	46,227	46,227	1.67	2.06	104	46,987
Total	30.1	27.9	24.4	247	0.61	0.40	20.7	21.1	0.38	3.66	4.03	—	62,331	62,331	2.25	2.78	140	63,355
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	0.90	0.82	0.95	6.21	0.02	0.01	0.75	0.76	0.01	0.13	0.15	—	1,999	1,999	0.09	0.10	0.13	2,032
Apartments Low Rise	5.54	5.05	5.88	38.3	0.12	0.09	4.60	4.69	0.08	0.81	0.90	—	12,336	12,336	0.53	0.63	0.81	12,539
Single Family Housing	18.5	16.8	19.6	128	0.40	0.30	15.4	15.7	0.28	2.71	2.99	—	41,151	41,151	1.76	2.12	2.70	41,828
Total	24.9	22.7	26.4	172	0.54	0.40	20.7	21.1	0.38	3.66	4.03	—	55,486	55,486	2.38	2.85	3.64	56,399
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	0.15	0.14	0.15	1.14	< 0.005	< 0.005	0.12	0.12	< 0.005	0.02	0.02	—	311	311	0.01	0.01	0.32	316
Apartments Low Rise	0.95	0.88	0.92	7.03	0.02	0.01	0.75	0.77	0.01	0.13	0.15	—	1,918	1,918	0.08	0.09	2.00	1,950
Single Family Housing	3.48	3.19	3.35	25.6	0.08	0.05	2.74	2.79	0.05	0.48	0.53	—	6,984	6,984	0.27	0.34	7.27	7,098
Total	4.59	4.21	4.42	33.8	0.10	0.07	3.61	3.68	0.07	0.64	0.70	—	9,214	9,214	0.36	0.44	9.60	9,364

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,109	1,109	0.15	0.02	—	1,118
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,294	4,294	0.57	0.07	—	4,329
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,403	5,403	0.71	0.09	—	5,447
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,109	1,109	0.15	0.02	—	1,118
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,294	4,294	0.57	0.07	—	4,329
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,403	5,403	0.71	0.09	—	5,447

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	184	184	0.02	< 0.005	—	185
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	711	711	0.09	0.01	—	717
Total	—	—	—	—	—	—	—	—	—	—	—	—	895	895	0.12	0.01	—	902

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.12	0.06	1.02	0.43	0.01	0.08	—	0.08	0.08	—	0.08	—	1,289	1,289	0.11	< 0.005	—	1,293
Single Family Housing	0.71	0.35	6.04	2.57	0.04	0.49	—	0.49	0.49	—	0.49	—	7,671	7,671	0.68	0.01	—	7,692
Total	0.83	0.41	7.06	3.00	0.05	0.57	—	0.57	0.57	—	0.57	—	8,960	8,960	0.79	0.02	—	8,985

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.12	0.06	1.02	0.43	0.01	0.08	—	0.08	0.08	—	0.08	—	1,289	1,289	0.11	< 0.005	—	1,293
Single Family Housing	0.71	0.35	6.04	2.57	0.04	0.49	—	0.49	0.49	—	0.49	—	7,671	7,671	0.68	0.01	—	7,692
Total	0.83	0.41	7.06	3.00	0.05	0.57	—	0.57	0.57	—	0.57	—	8,960	8,960	0.79	0.02	—	8,985
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.02	0.01	0.19	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	213	213	0.02	< 0.005	—	214
Single Family Housing	0.13	0.06	1.10	0.47	0.01	0.09	—	0.09	0.09	—	0.09	—	1,270	1,270	0.11	< 0.005	—	1,274
Total	0.15	0.08	1.29	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	1,483	1,483	0.13	< 0.005	—	1,487

4.3. Area Emissions by Source

4.3.2. Unmitigated

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

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Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.77	0.88	15.1	6.42	0.10	1.22	—	1.22	1.22	—	1.22	0.00	19,161	19,161	0.36	0.04	—	19,181
Consumer Products	—	35.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	16.5	15.4	1.04	118	0.01	0.11	—	0.11	0.14	—	0.14	—	411	411	0.02	0.04	—	423
Total	18.3	54.1	16.1	124	0.10	1.33	—	1.33	1.36	—	1.36	0.00	19,572	19,572	0.38	0.07	—	19,603
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	1.77	0.88	15.1	6.42	0.10	1.22	—	1.22	1.22	—	1.22	0.00	19,161	19,161	0.36	0.04	—	19,181
Consumer Products	—	35.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.77	38.7	15.1	6.42	0.10	1.22	—	1.22	1.22	—	1.22	0.00	19,161	19,161	0.36	0.04	—	19,181
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.02	0.01	0.19	0.08	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	217	217	< 0.005	< 0.005	—	218
Consumer Products	—	6.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	—	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.49	1.38	0.09	10.6	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33.5	33.5	< 0.005	< 0.005	—	34.5
Total	1.51	8.30	0.28	10.7	< 0.005	0.02	—	0.02	0.03	—	0.03	0.00	251	251	0.01	< 0.005	—	252

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	18.5	31.2	49.7	1.90	0.05	—	111
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	52.5	486	539	5.44	0.14	—	715
Total	—	—	—	—	—	—	—	—	—	—	—	70.9	517	588	7.34	0.18	—	826
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	18.5	31.2	49.7	1.90	0.05	—	111
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	52.5	486	539	5.44	0.14	—	715
Total	—	—	—	—	—	—	—	—	—	—	—	70.9	517	588	7.34	0.18	—	826
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3.06	5.17	8.22	0.31	0.01	—	18.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.68	80.5	89.2	0.90	0.02	—	118
Total	—	—	—	—	—	—	—	—	—	—	—	11.7	85.7	97.4	1.22	0.03	—	137

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.86	0.00	0.86	0.09	0.00	—	3.01
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	79.2	0.00	79.2	7.92	0.00	—	277
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	279	0.00	279	27.9	0.00	—	975
Total	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,255
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.86	0.00	0.86	0.09	0.00	—	3.01
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	79.2	0.00	79.2	7.92	0.00	—	277
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	279	0.00	279	27.9	0.00	—	975
Total	—	—	—	—	—	—	—	—	—	—	—	359	0.00	359	35.9	0.00	—	1,255
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.14	0.00	0.14	0.01	0.00	—	0.50
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	13.1	0.00	13.1	1.31	0.00	—	45.9
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	46.1	0.00	46.1	4.61	0.00	—	161
Total	—	—	—	—	—	—	—	—	—	—	—	59.4	0.00	59.4	5.94	0.00	—	208

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.61	1.61
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.40	8.40
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.0	10.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Apartment Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.61	1.61
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.40	8.40
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.0	10.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.39	1.39
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.66	1.66

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	310	203	193	101,441	2,697	1,765	1,677	882,535
Apartments Low Rise	1,721	1,913	1,477	625,308	14,969	16,640	12,846	5,440,176
Single Family Housing	6,313	6,380	5,721	2,276,778	54,921	55,506	49,768	19,807,971

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	237
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	673
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	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)
3166229.25	1,055,410	96,423	32,141	91,476

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

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)
Other Asphalt Surfaces	0.00	249	0.0330	0.0040	0.00
Golf Course	0.00	249	0.0330	0.0040	0.00
Apartments Low Rise	1,622,689	249	0.0330	0.0040	4,021,943
Single Family Housing	6,285,311	249	0.0330	0.0040	23,934,783

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Other Asphalt Surfaces	0.00	0.00
Golf Course	0.00	0.00
Apartments Low Rise	9,639,685	0.00
Single Family Housing	27,373,451	180,796,855

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Other Asphalt Surfaces	0.00	0.00
Golf Course	1.60	0.00
Apartments Low Rise	54.3	0.00
Single Family Housing	191	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Golf Course	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
—	—

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	24.1	annual days of extreme heat
Extreme Precipitation	0.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.74	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	77.1

AQ-PM	7.31
AQ-DPM	9.38
Drinking Water	67.0
Lead Risk Housing	31.7
Pesticides	95.0
Toxic Releases	3.14
Traffic	6.09
Effect Indicators	—
CleanUp Sites	22.6
Groundwater	0.00
Haz Waste Facilities/Generators	35.6
Impaired Water Bodies	97.5
Solid Waste	83.3
Sensitive Population	—
Asthma	21.2
Cardio-vascular	47.3
Low Birth Weights	53.8
Socioeconomic Factor Indicators	—
Education	96.2
Housing	77.2
Linguistic	99.1
Poverty	95.5
Unemployment	93.8

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
-----------	---------------------------------

Economic	—
Above Poverty	2.527909663
Employed	8.956756063
Median HI	7.262928269
Education	—
Bachelor's or higher	24.75298345
High school enrollment	22.50737842
Preschool enrollment	7.814705505
Transportation	—
Auto Access	49.51879892
Active commuting	13.6147825
Social	—
2-parent households	34.82612601
Voting	66.44424484
Neighborhood	—
Alcohol availability	91.1587322
Park access	5.389452072
Retail density	5.864237136
Supermarket access	2.399589375
Tree canopy	8.404978827
Housing	—
Homeownership	77.35146927
Housing habitability	8.956756063
Low-inc homeowner severe housing cost burden	12.29308354
Low-inc renter severe housing cost burden	61.6963942
Uncrowded housing	15.89888361
Health Outcomes	—

Insured adults	2.463749519
Arthritis	0.0
Asthma ER Admissions	63.9
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	81.1
Cognitively Disabled	76.7
Physically Disabled	74.5
Heart Attack ER Admissions	49.3
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	39.9
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	16.3

Elderly	50.9
English Speaking	2.2
Foreign-born	93.3
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	96.0
Traffic Density	2.2
Traffic Access	23.0
Other Indices	—
Hardship	97.8
Other Decision Support	—
2016 Voting	63.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	EasternCoachellaValley

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Per the Travertine Specific Plan Phasing Plan by Urban Crossroads, Inc., the Service Population for residential uses is 3,250 (2.71 PPH)
Operations: Vehicle Data	Trip Characteristics based on information provided in the Travertine Specific Plan Traffic Phasing Plan Analysis by Urban Crossroads, Inc.
Operations: Hearths	SCAQMD Rule 445
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

ATTACHMENT C
CALEEMOD PHASE 3 OPERATIONAL EMISSIONS

12188-Travertine Specific Plan Operations (Phase 3) Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	12188-Travertine Specific Plan Operations (Phase 3)
Lead Agency	—
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	3.00
Precipitation (days)	8.80
Location	33.595556, -116.261515
County	Riverside-Salton Sea
City	La Quinta
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5665
EDFZ	19
Electric Utility	Imperial Irrigation District
Gas Utility	Southern California Gas

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
Other Asphalt Surfaces	35.0	Acre	35.0	0.00	0.00	—	—	—
Golf Course	12.0	Hole	46.2	0.00	0.00	0.00	—	—
Hotel	100	Room	38.3	261,712	0.00	—	—	—

Apartments Low Rise	442	Dwelling Unit	60.8	468,520	0.00	—	1,198	—
Single Family Housing	758	Dwelling Unit	318	1,478,100	8,878,346	—	2,054	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	49.3	96.8	62.4	408	1.01	3.04	28.3	31.3	3.02	4.99	8.01	590	131,036	131,626	65.1	4.10	307	134,783
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	35.0	83.0	64.2	234	0.91	3.00	28.3	31.3	2.97	4.99	7.96	590	121,789	122,380	65.2	4.17	163	125,418
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	36.7	85.8	43.0	280	0.79	1.50	26.8	28.3	1.47	4.73	6.21	590	97,992	98,582	64.5	3.88	220	101,571
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.71	15.7	7.85	51.0	0.14	0.27	4.89	5.17	0.27	0.86	1.13	97.7	16,224	16,321	10.7	0.64	36.4	16,816

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)

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Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	37.4	34.7	30.6	314	0.80	0.51	28.3	28.8	0.48	4.99	5.46	—	82,229	82,229	2.85	3.61	148	83,525
Area	10.6	61.5	20.6	88.2	0.13	1.65	—	1.65	1.66	—	1.66	0.00	25,496	25,496	0.49	0.07	—	25,528
Energy	1.28	0.64	11.1	5.74	0.07	0.89	—	0.89	0.89	—	0.89	—	22,705	22,705	2.41	0.17	—	22,815
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	607	705	10.2	0.25	—	1,034
Waste	—	—	—	—	—	—	—	—	—	—	—	492	0.00	492	49.2	0.00	—	1,721
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	159	159
Total	49.3	96.8	62.4	408	1.01	3.04	28.3	31.3	3.02	4.99	8.01	590	131,036	131,626	65.1	4.10	307	134,783
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	31.3	28.6	33.2	219	0.72	0.51	28.3	28.8	0.48	4.99	5.46	—	73,211	73,211	3.01	3.71	3.84	74,395
Area	2.33	53.8	19.9	8.47	0.13	1.61	—	1.61	1.61	—	1.61	0.00	25,267	25,267	0.48	0.05	—	25,293
Energy	1.28	0.64	11.1	5.74	0.07	0.89	—	0.89	0.89	—	0.89	—	22,705	22,705	2.41	0.17	—	22,815
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	607	705	10.2	0.25	—	1,034
Waste	—	—	—	—	—	—	—	—	—	—	—	492	0.00	492	49.2	0.00	—	1,721
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	159	159
Total	35.0	83.0	64.2	234	0.91	3.00	28.3	31.3	2.97	4.99	7.96	590	121,789	122,380	65.2	4.17	163	125,418
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	31.2	28.6	30.2	234	0.71	0.48	26.8	27.3	0.45	4.73	5.18	—	72,837	72,837	2.74	3.45	60.7	73,993
Area	4.22	56.5	1.72	39.9	0.01	0.13	—	0.13	0.14	—	0.14	0.00	1,843	1,843	0.04	0.01	—	1,848
Energy	1.28	0.64	11.1	5.74	0.07	0.89	—	0.89	0.89	—	0.89	—	22,705	22,705	2.41	0.17	—	22,815
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	607	705	10.2	0.25	—	1,034
Waste	—	—	—	—	—	—	—	—	—	—	—	492	0.00	492	49.2	0.00	—	1,721
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	159	159

Total	36.7	85.8	43.0	280	0.79	1.50	26.8	28.3	1.47	4.73	6.21	590	97,992	98,582	64.5	3.88	220	101,571
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.70	5.22	5.51	42.7	0.13	0.09	4.89	4.98	0.08	0.86	0.95	—	12,059	12,059	0.45	0.57	10.0	12,250
Area	0.77	10.3	0.31	7.28	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	305	305	0.01	< 0.005	—	306
Energy	0.23	0.12	2.03	1.05	0.01	0.16	—	0.16	0.16	—	0.16	—	3,759	3,759	0.40	0.03	—	3,777
Water	—	—	—	—	—	—	—	—	—	—	—	16.3	100	117	1.68	0.04	—	171
Waste	—	—	—	—	—	—	—	—	—	—	—	81.5	0.00	81.5	8.14	0.00	—	285
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.4	26.4
Total	6.71	15.7	7.85	51.0	0.14	0.27	4.89	5.17	0.27	0.86	1.13	97.7	16,224	16,321	10.7	0.64	36.4	16,816

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	0.70	0.65	0.57	5.86	0.01	0.01	0.53	0.54	0.01	0.09	0.10	—	1,534	1,534	0.05	0.07	2.76	1,558
Hotel	3.08	2.85	2.52	25.9	0.07	0.04	2.33	2.37	0.04	0.41	0.45	—	6,772	6,772	0.23	0.30	12.2	6,878
Apartments Low Rise	11.1	10.3	9.11	93.4	0.24	0.15	8.40	8.55	0.14	1.48	1.62	—	24,452	24,452	0.85	1.07	44.1	24,838

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Single Family Housing	22.5	20.8	18.4	189	0.48	0.30	17.0	17.3	0.29	3.00	3.29	—	49,471	49,471	1.72	2.17	89.1	50,251
Total	37.4	34.7	30.6	314	0.80	0.51	28.3	28.8	0.48	4.99	5.46	—	82,229	82,229	2.85	3.61	148	83,525
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	0.58	0.53	0.62	4.09	0.01	0.01	0.53	0.54	0.01	0.09	0.10	—	1,365	1,365	0.06	0.07	0.07	1,388
Hotel	2.58	2.35	2.73	18.1	0.06	0.04	2.33	2.37	0.04	0.41	0.45	—	6,029	6,029	0.25	0.31	0.32	6,127
Apartments Low Rise	9.32	8.49	9.86	65.3	0.21	0.15	8.40	8.55	0.14	1.48	1.62	—	21,771	21,771	0.90	1.10	1.14	22,123
Single Family Housing	18.9	17.2	19.9	132	0.43	0.30	17.0	17.3	0.29	3.00	3.29	—	44,046	44,046	1.81	2.23	2.31	44,758
Total	31.3	28.6	33.2	219	0.72	0.51	28.3	28.8	0.48	4.99	5.46	—	73,211	73,211	3.01	3.71	3.84	74,395
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	0.10	0.09	0.10	0.75	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	213	213	0.01	0.01	0.18	216
Hotel	0.46	0.42	0.45	3.47	0.01	0.01	0.40	0.40	0.01	0.07	0.08	—	980	980	0.04	0.05	0.82	995
Apartments Low Rise	1.60	1.47	1.55	12.0	0.04	0.02	1.37	1.40	0.02	0.24	0.27	—	3,386	3,386	0.13	0.16	2.82	3,440
Single Family Housing	3.54	3.24	3.42	26.5	0.08	0.05	3.04	3.09	0.05	0.54	0.59	—	7,481	7,481	0.28	0.35	6.23	7,599
Total	5.70	5.22	5.51	42.7	0.13	0.09	4.89	4.98	0.08	0.86	0.95	—	12,059	12,059	0.45	0.57	10.0	12,250

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	1,947	1,947	0.26	0.03	—	1,963
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,044	2,044	0.27	0.03	—	2,061
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,781	4,781	0.64	0.08	—	4,820
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,772	8,772	1.17	0.14	—	8,843
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	1,947	1,947	0.26	0.03	—	1,963
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,044	2,044	0.27	0.03	—	2,061

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,781	4,781	0.64	0.08	—	4,820
Total	—	—	—	—	—	—	—	—	—	—	—	—	8,772	8,772	1.17	0.14	—	8,843
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	322	322	0.04	0.01	—	325
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	338	338	0.05	0.01	—	341
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	792	792	0.11	0.01	—	798
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,452	1,452	0.19	0.02	—	1,464

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	0.27	0.13	2.42	2.03	0.01	0.18	—	0.18	0.18	—	0.18	—	2,889	2,889	0.26	0.01	—	2,897

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Apartments	0.22	0.11	1.89	0.81	0.01	0.15	—	0.15	0.15	—	0.15	—	2,404	2,404	0.21	< 0.005	—	2,411
Single Family Housing	0.80	0.40	6.81	2.90	0.04	0.55	—	0.55	0.55	—	0.55	—	8,640	8,640	0.76	0.02	—	8,664
Total	1.28	0.64	11.1	5.74	0.07	0.89	—	0.89	0.89	—	0.89	—	13,933	13,933	1.23	0.03	—	13,972
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	0.27	0.13	2.42	2.03	0.01	0.18	—	0.18	0.18	—	0.18	—	2,889	2,889	0.26	0.01	—	2,897
Apartments Low Rise	0.22	0.11	1.89	0.81	0.01	0.15	—	0.15	0.15	—	0.15	—	2,404	2,404	0.21	< 0.005	—	2,411
Single Family Housing	0.80	0.40	6.81	2.90	0.04	0.55	—	0.55	0.55	—	0.55	—	8,640	8,640	0.76	0.02	—	8,664
Total	1.28	0.64	11.1	5.74	0.07	0.89	—	0.89	0.89	—	0.89	—	13,933	13,933	1.23	0.03	—	13,972
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Hotel	0.05	0.02	0.44	0.37	< 0.005	0.03	—	0.03	0.03	—	0.03	—	478	478	0.04	< 0.005	—	480
Apartments Low Rise	0.04	0.02	0.35	0.15	< 0.005	0.03	—	0.03	0.03	—	0.03	—	398	398	0.04	< 0.005	—	399
Single Family Housing	0.15	0.07	1.24	0.53	0.01	0.10	—	0.10	0.10	—	0.10	—	1,430	1,430	0.13	< 0.005	—	1,434

Total	0.23	0.12	2.03	1.05	0.01	0.16	—	0.16	0.16	—	0.16	—	2,307	2,307	0.20	< 0.005	—	2,313
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4.3. Area Emissions by Source

4.3.2. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	2.33	1.16	19.9	8.47	0.13	1.61	—	1.61	1.61	—	1.61	0.00	25,267	25,267	0.48	0.05	—	25,293
Consumer Products	—	48.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	3.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	8.24	7.75	0.73	79.7	< 0.005	0.04	—	0.04	0.05	—	0.05	—	229	229	0.01	0.02	—	235
Total	10.6	61.5	20.6	88.2	0.13	1.65	—	1.65	1.66	—	1.66	0.00	25,496	25,496	0.49	0.07	—	25,528
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	2.33	1.16	19.9	8.47	0.13	1.61	—	1.61	1.61	—	1.61	0.00	25,267	25,267	0.48	0.05	—	25,293
Consumer Products	—	48.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	3.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.33	53.8	19.9	8.47	0.13	1.61	—	1.61	1.61	—	1.61	0.00	25,267	25,267	0.48	0.05	—	25,293

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.03	0.01	0.25	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	287	287	0.01	< 0.005	—	287
Consumer Products	—	8.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.74	0.70	0.07	7.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.7	18.7	< 0.005	< 0.005	—	19.2
Total	0.77	10.3	0.31	7.28	< 0.005	0.02	—	0.02	0.02	—	0.02	0.00	305	305	0.01	< 0.005	—	306

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	8.12	13.0	0.50	0.01	—	29.0
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	34.4	57.5	92.0	3.54	0.08	—	206

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Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	59.1	541	600	6.13	0.15	—	799
Total	—	—	—	—	—	—	—	—	—	—	—	98.4	607	705	10.2	0.25	—	1,034
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.86	8.12	13.0	0.50	0.01	—	29.0
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	34.4	57.5	92.0	3.54	0.08	—	206
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	59.1	541	600	6.13	0.15	—	799
Total	—	—	—	—	—	—	—	—	—	—	—	98.4	607	705	10.2	0.25	—	1,034
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	0.80	1.34	2.15	0.08	< 0.005	—	4.81
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	5.70	9.52	15.2	0.59	0.01	—	34.1
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.78	89.6	99.4	1.01	0.03	—	132
Total	—	—	—	—	—	—	—	—	—	—	—	16.3	100	117	1.68	0.04	—	171

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.86	0.00	0.86	0.09	0.00	—	3.01
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	148	0.00	148	14.8	0.00	—	517
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	314	0.00	314	31.4	0.00	—	1,098
Total	—	—	—	—	—	—	—	—	—	—	—	492	0.00	492	49.2	0.00	—	1,721
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.86	0.00	0.86	0.09	0.00	—	3.01
Hotel	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.95	0.00	—	103
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	148	0.00	148	14.8	0.00	—	517

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	314	0.00	314	31.4	0.00	—	1,098
Total	—	—	—	—	—	—	—	—	—	—	—	492	0.00	492	49.2	0.00	—	1,721
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.14	0.00	0.14	0.01	0.00	—	0.50
Hotel	—	—	—	—	—	—	—	—	—	—	—	4.89	0.00	4.89	0.49	0.00	—	17.1
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	24.5	0.00	24.5	2.45	0.00	—	85.6
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	52.0	0.00	52.0	5.19	0.00	—	182
Total	—	—	—	—	—	—	—	—	—	—	—	81.5	0.00	81.5	8.14	0.00	—	285

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	147	147

Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.00	3.00
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47	9.47
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	159	159
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	147	147
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.00	3.00
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.47	9.47
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	159	159
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hotel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24.3	24.3
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.50	0.50
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	26.4	26.4

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Golf Course	219	143	136	71,676	1,905	1,248	1,185	623,577
Hotel	967	830	671	330,377	8,413	7,221	5,838	2,874,281
Apartments Low Rise	3,143	3,492	2,696	1,141,986	27,341	30,379	23,457	9,935,278
Single Family Housing	6,996	7,065	6,337	2,522,835	60,868	61,462	55,131	21,948,666

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	442
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Single Family Housing	—

Wood Fireplaces	0
Gas Fireplaces	758
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	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)
3941905.5	1,313,969	488,991	162,997	91,476

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

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)
Other Asphalt Surfaces	0.00	247	0.0330	0.0040	0.00
Golf Course	0.00	247	0.0330	0.0040	0.00
Hotel	2,882,475	247	0.0330	0.0040	9,015,851
Apartments Low Rise	3,026,281	247	0.0330	0.0040	7,500,838
Single Family Housing	7,079,147	247	0.0330	0.0040	26,957,750

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Other Asphalt Surfaces	0.00	0.00
Golf Course	0.00	0.00
Hotel	2,536,677	0.00
Apartments Low Rise	17,977,809	0.00
Single Family Housing	30,830,721	203,631,528

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Other Asphalt Surfaces	0.00	0.00
Golf Course	1.60	0.00
Hotel	54.8	0.00
Apartments Low Rise	101	0.00
Single Family Housing	215	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Golf Course	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0

Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Hotel	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Hotel	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Hotel	Walk-in refrigerators and freezers	User Defined	150	< 0.005	7.50	7.50	20.0
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
—	—

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	24.1	annual days of extreme heat
Extreme Precipitation	0.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	3.74	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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	77.1
AQ-PM	7.31
AQ-DPM	9.38

Drinking Water	67.0
Lead Risk Housing	31.7
Pesticides	95.0
Toxic Releases	3.14
Traffic	6.09
Effect Indicators	—
CleanUp Sites	22.6
Groundwater	0.00
Haz Waste Facilities/Generators	35.6
Impaired Water Bodies	97.5
Solid Waste	83.3
Sensitive Population	—
Asthma	21.2
Cardio-vascular	47.3
Low Birth Weights	53.8
Socioeconomic Factor Indicators	—
Education	96.2
Housing	77.2
Linguistic	99.1
Poverty	95.5
Unemployment	93.8

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	2.527909663

Employed	8.956756063
Median HI	7.262928269
Education	—
Bachelor's or higher	24.75298345
High school enrollment	22.50737842
Preschool enrollment	7.814705505
Transportation	—
Auto Access	49.51879892
Active commuting	13.6147825
Social	—
2-parent households	34.82612601
Voting	66.44424484
Neighborhood	—
Alcohol availability	91.1587322
Park access	5.389452072
Retail density	5.864237136
Supermarket access	2.399589375
Tree canopy	8.404978827
Housing	—
Homeownership	77.35146927
Housing habitability	8.956756063
Low-inc homeowner severe housing cost burden	12.29308354
Low-inc renter severe housing cost burden	61.6963942
Uncrowded housing	15.89888361
Health Outcomes	—
Insured adults	2.463749519
Arthritis	0.0

Asthma ER Admissions	63.9
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	81.1
Cognitively Disabled	76.7
Physically Disabled	74.5
Heart Attack ER Admissions	49.3
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	39.9
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	16.3
Elderly	50.9
English Speaking	2.2

Foreign-born	93.3
Outdoor Workers	0.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	96.0
Traffic Density	2.2
Traffic Access	23.0
Other Indices	—
Hardship	97.8
Other Decision Support	—
2016 Voting	63.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	6.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	EasternCoachellaValley

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Per the Travertine Specific Plan Phasing Plan by Urban Crossroads, Inc., the Service Population for residential uses is 3,250 (2.71 PPH)
Operations: Vehicle Data	Trip Characteristics based on information provided in the Travertine Specific Plan Traffic Phasing Plan Analysis by Urban Crossroads, Inc.
Operations: Hearths	SCAQMD Rule 445
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.