Appendix D

Air Quality and Greenhouse Gas Modeling Results

1.1. Basic Project Information

Data Field	Value
Project Na	Elk Grove Zoo Phase 1
Constructic	6/1/2025
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeec	3
Precipitatic	36.6
Location	8675 Kammerer Rd, Elk Grove, CA 95757, USA
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreag	Building Ar	Landscape	Special Lan	Population	Description
General Of	4.3	1000sqft	0.1	4300				guest services/ticketing
Free-Stand	8.4	1000sqft	0.19	8400				retail building
Health Clul	0.3	1000sqft	0.01	300				educational entry restroom
High Turno	10	1000sqft	0	0				giraffe cafe
Other Non	8.6	1000sqft	0.2	0				concrete pad
City Park	0.01	Acre	0.01	0				dwarf mongoose
City Park	0.06	Acre	0.06	0				giraffe feeding shelter
City Park	0.04	Acre	0.04	0				carousel shelter
Free-Stand	1	1000sqft	0.02	1000				train station and tickets
Health Clul	1	1000sqft	0.02	1000				restrooms
City Park	0.2	Acre	0.2	0				flamingo aviary
City Park	0.53	Acre	0.53	0				gelada
City Park	0.06	Acre	0.06	0				thick billed parrot
City Park	0.28	Acre	0.28	0				okapi
Medical Of	7	1000sqft	0.16	7000				animal care quaters
Day-Care C	0.9	1000sqft	0.02	900				educational building 1
Day-Care C	0.9	1000sqft	0.02	900				educational building 2
Day-Care C	0.9	1000sqft	0.02	900				educational building 3
Health Clul	0.5	1000sqft	0.01	500				restrooms
City Park	0.01	Acre	0.01	0				hay storage
Fast Food F	0.3	1000sqft	0.01	300				beer garden 1
Fast Food F	0.3	1000sqft	0.01	300				beer garden 2
City Park	0.51	Acre	0.51	0				Lion
City Park	1.2	Acre	1.2	0				Savanna West
City Park	1.81	Acre	1.81	0				Savanna East
City Park	0.65	Acre	0.65	0				Rhino
City Park	0.34	Acre	0.34	0				Cheetah
City Park	0.01	Acre	0.01	0				Fennec Fox
Medical Of	25.2	1000sqft	0.58	25200				Animal Care Quarters
High Turno	4.5	1000sqft	0.1	4500				Gelada Cafe
Hospital	21	1000sqft	0.48	21000				Animal Care Center
City Park	0.07	Acre	0.07	0				viewing area
Automobil	8.7	1000sqft	0.2	8700				maintenance shed/shops
Health Clul	0.65	1000sqft	0.01	650				restrooms
Parking Lot	500	Space	4.5	0				north lot
Parking Lot	700	Space	6.3	0				south lot

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	4.02	50.7	31.7	31.2	0.06	1.37	19.8	21.2	1.26	10.1	11.4		6826	6826	0.27	0.09	2.3	6852
Daily, Winter (Max)																		
Unmit.	1.51	1.31	11.3	14.6	0.03	0.44	0.39	0.83	0.4	0.1	0.5		3092	3092	0.13	0.09	0.06	3122
Average Daily (Max)																		
Unmit.	1.42	7.08	10.8	12.4	0.02	0.45	3.3	3.74	0.41	1.44	1.85		2644	2644	0.11	0.08	0.77	2671
Annual (Max)																		
Unmit.	0.26	1.29	1.98	2.26	< 0.005	0.08	0.6	0.68	0.07	0.26	0.34		438	438	0.02	0.01	0.13	442

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2025	4.02	3.38	31.7	31.2	0.06	1.37	19.8	21.2	1.26	10.1	11.4		6826	6826	0.27	0.09	2.3	6852
2026	1.45	1.2	10.6	14.8	0.03	0.38	0.39	0.78	0.35	0.1	0.45		3113	3113	0.13	0.09	2.09	3145
2027	1.38	1.15	10.1	14.7	0.03	0.34	0.39	0.74	0.32	0.1	0.41		3098	3098	0.13	0.09	1.89	3129
2028	0.87	50.7	6.66	10.7	0.01	0.26	0.15	0.41	0.24	0.04	0.27		1672	1672	0.06	0.01	0.49	1678
Daily - Winter (Max)																		
2025	1.51	1.25	11.3	14.6	0.03	0.44	0.39	0.83	0.4	0.1	0.5		3092	3092	0.13	0.09	0.06	3122
2026	1.43	1.19	10.7	14.4	0.03	0.38	0.39	0.78	0.35	0.1	0.45		3078	3078	0.13	0.09	0.05	3108
2027	1.37	1.13	10.2	14.3	0.03	0.34	0.39	0.74	0.32	0.1	0.41		3063	3063	0.13	0.09	0.05	3093
2028	1.32	1.31	9.66	14.2	0.03	0.31	0.39	0.7	0.28	0.1	0.38		3048	3048	0.13	0.09	0.04	3077
Average Daily																		
2025	1.42	1.19	10.8	11.4	0.02	0.45	3.3	3.74	0.41	1.44	1.85		2468	2468	0.1	0.04	0.32	2482
2026	1.22	1.02	9.14	12.4	0.02	0.33	0.33	0.66	0.3	0.08	0.38		2644	2644	0.11	0.08	0.77	2671
2027	1.18	0.97	8.7	12.3	0.02	0.29	0.33	0.62	0.27	0.08	0.35		2632	2632	0.11	0.07	0.7	2658
2028	0.26	7.08	1.91	2.92	< 0.005	0.07	0.06	0.13	0.06	0.02	0.08		535	535	0.02	0.01	0.11	539
Annual																		
2025	0.26	0.22	1.98	2.08	< 0.005	0.08	0.6	0.68	0.07	0.26	0.34		409	409	0.02	0.01	0.05	411
2026	0.22	0.19	1.67	2.26	< 0.005	0.06	0.06	0.12	0.06	0.01	0.07		438	438	0.02	0.01	0.13	442
2027	0.21	0.18	1.59	2.24	< 0.005	0.05	0.06	0.11	0.05	0.01	0.06		436	436	0.02	0.01	0.12	440
2028	0.05	1.29	0.35	0.53	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		88.5	88.5	< 0.005	< 0.005	0.02	89.2

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	2.86	2.4	22.2	19.9	0.03	0.92		0.92	0.84		0.84		3425	3425	0.14	0.03		3437
Demolition							0	0		0	0							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.02	0.02	0.18	0.16	< 0.005	0.01		0.01	0.01		0.01		28.2	28.2	< 0.005	< 0.005		28.2
Demolition							0	0		0	0							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		4.66	4.66	< 0.005	< 0.005		4.68
Demolition							0	0		0	0							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.06	0.04	0.9	0	0	0.15	0.15	0	0.04	0.04		170	170	< 0.005	0.01	0.65	173
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.28	1.28	< 0.005	< 0.005	< 0.005	1.29
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.21	0.21	< 0.005	< 0.005	< 0.005	0.21
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Site Preparation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	3.94	3.31	31.6	30.2	0.05	1.37		1.37	1.26		1.26		5295	5295	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.26	0.22	2.08	1.98	< 0.005	0.09		0.09	0.08		0.08		348	348	0.01	< 0.005		349
Dust From Material Movement							1.29	1.29		0.66	0.66							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.05	0.04	0.38	0.36	< 0.005	0.02		0.02	0.02		0.02		57.6	57.6	< 0.005	< 0.005		57.8
Dust From Material Movement							0.24	0.24		0.12	0.12							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.08	0.07	0.05	1.05	0	0	0.18	0.18	0	0.04	0.04		199	199	< 0.005	0.01	0.76	202
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		11.9	11.9	< 0.005	< 0.005	0.02	12.1
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.97	1.97	< 0.005	< 0.005	< 0.005	2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							9.2	9.2		3.65	3.65							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.77	0.65	6.02	5.74	0.01	0.25		0.25	0.23		0.23		1338	1338	0.05	0.01		1342
Dust From Material Movement							1.87	1.87		0.74	0.74							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.14	0.12	1.1	1.05	< 0.005	0.05		0.05	0.04		0.04		221	221	0.01	< 0.005		222

Dust From Material Movement							0.34	0.34		0.14	0.14							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.09	0.08	0.06	1.21	0	0	0.2	0.2	0	0.05	0.05		227	227	< 0.005	0.01	0.87	230
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.02	0.02	0.01	0.18	0	0	0.04	0.04	0	0.01	0.01		41.9	41.9	< 0.005	< 0.005	0.08	42.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		6.94	6.94	< 0.005	< 0.005	0.01	7.04
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.3	0.25	2.35	2.94	0.01	0.1		0.1	0.09		0.09		541	541	0.02	< 0.005		542
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.06	0.05	0.43	0.54	< 0.005	0.02		0.02	0.02		0.02		89.5	89.5	< 0.005	< 0.005		89.8
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.13	0.12	0.08	1.72	0	0	0.29	0.29	0	0.07	0.07		323	323	0.01	0.01	1.24	328
Vendor	0.04	0.02	0.74	0.27	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		407	407	0.03	0.06	1.06	427
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.12	0.11	0.11	1.27	0	0	0.29	0.29	0	0.07	0.07		287	287	0.01	0.01	0.03	291
Vendor	0.04	0.01	0.79	0.28	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		407	407	0.03	0.06	0.03	425
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.03	0.02	0.02	0.29	0	0	0.06	0.06	0	0.01	0.01		66.4	66.4	< 0.005	< 0.005	0.12	67.4
Vendor	0.01	< 0.005	0.18	0.06	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		91.7	91.7	0.01	0.01	0.1	96
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		11	11	< 0.005	< 0.005	0.02	11.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		15.2	15.2	< 0.005	< 0.005	0.02	15.9
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	1.1	0.92	8.45	11.1	0.02	0.32		0.32	0.3		0.3		2055	2055	0.08	0.02		2062
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.2	0.17	1.54	2.03	< 0.005	0.06		0.06	0.05		0.05		340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.13	0.11	0.07	1.61	0	0	0.29	0.29	0	0.07	0.07		317	317	< 0.005	0.01	1.13	322
Vendor	0.04	0.01	0.69	0.26	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		399	399	0.03	0.06	0.96	418
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.11	0.1	0.1	1.18	0	0	0.29	0.29	0	0.07	0.07		282	282	0.01	0.01	0.03	285
Vendor	0.04	0.01	0.74	0.27	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		399	399	0.03	0.06	0.02	417
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.09	0.09	0.07	1.03	0	0	0.24	0.24	0	0.06	0.06		248	248	< 0.005	0.01	0.42	251
Vendor	0.04	0.01	0.62	0.23	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03		342	342	0.02	0.05	0.35	358
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.01	0.19	0	0	0.04	0.04	0	0.01	0.01		41	41	< 0.005	< 0.005	0.07	41.6
Vendor	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		56.6	56.6	< 0.005	0.01	0.06	59.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	1.05	0.88	8.05	11.1	0.02	0.29		0.29	0.27		0.27		2055	2055	0.08	0.02		2062
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.19	0.16	1.47	2.02	< 0.005	0.05		0.05	0.05		0.05		340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.11	0.11	0.07	1.51	0	0	0.29	0.29	0	0.07	0.07		311	311	< 0.005	0.01	1.03	316
Vendor	0.04	0.01	0.65	0.25	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		390	390	0.02	0.06	0.86	408
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.1	0.09	0.09	1.11	0	0	0.29	0.29	0	0.07	0.07		277	277	0.01	0.01	0.03	280
Vendor	0.04	0.01	0.69	0.26	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		390	390	0.02	0.06	0.02	407
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.09	0.08	0.07	0.97	0	0	0.24	0.24	0	0.06	0.06		243	243	< 0.005	0.01	0.38	247
Vendor	0.04	0.01	0.58	0.22	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03		334	334	0.02	0.05	0.32	349
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.01	0.01	0.18	0	0	0.04	0.04	0	0.01	0.01		40.3	40.3	< 0.005	< 0.005	0.06	40.8
Vendor	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01		55.3	55.3	< 0.005	0.01	0.05	57.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Building Construction (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28		2397	2397	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.11	0.09	0.84	1.22	< 0.005	0.03		0.03	0.03		0.03		225	225	0.01	< 0.005		226
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.02	0.15	0.22	< 0.005	0.01		0.01	< 0.005		< 0.005		37.3	37.3	< 0.005	< 0.005		37.4
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.1	0.09	0.08	1.04	0	0	0.29	0.29	0	0.07	0.07		271	271	0.01	0.01	0.02	275
Vendor	0.04	0.01	0.65	0.25	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		379	379	0.02	0.06	0.02	397
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01		26.1	26.1	< 0.005	< 0.005	0.04	26.5
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		35.6	35.6	< 0.005	0.01	0.03	37.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		4.32	4.32	< 0.005	< 0.005	0.01	4.38
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.9	5.9	< 0.005	< 0.005	0.01	6.18
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.15. Paving (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.82	0.69	6.63	9.91	0.01	0.26		0.26	0.24		0.24		1511	1511	0.06	0.01		1516
Paving		0.58																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.82	0.69	6.63	9.91	0.01	0.26		0.26	0.24		0.24		1511	1511	0.06	0.01		1516
Paving		0.58																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.11	0.09	0.89	1.33	< 0.005	0.03		0.03	0.03		0.03		203	203	0.01	< 0.005		204
Paving		0.08																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.02	0.16	0.24	< 0.005	0.01		0.01	0.01		0.01		33.6	33.6	< 0.005	< 0.005		33.7
Paving		0.01																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.05	0.03	0.75	0	0	0.15	0.15	0	0.04	0.04		161	161	< 0.005	< 0.005	0.49	161
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.05	0.04	0.55	0	0	0.15	0.15	0	0.04	0.04		143	143	< 0.005	0.01	0.01	145
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.08	0	0	0.02	0.02	0	< 0.005	< 0.005		19.7	19.7	< 0.005	< 0.005	0.03	19.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																				
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005	3.25	3.25	< 0.005	< 0.005	< 0.005	3.3			
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.17. Architectural Coating (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.13	0.11	0.81	1.12	< 0.005	0.02		0.02	0.01		0.01		134	134	0.01	< 0.005		134
Architectural Coatings		50.5																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.02	0.01	0.11	0.15	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		17.9	17.9	< 0.005	< 0.005		18
Architectural Coatings		6.79																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.97	2.97	< 0.005	< 0.005		2.98
Architectural Coatings		1.24																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.01	0.28	0	0	0.06	0.06	0	0.01	0.01		61	61	< 0.005	< 0.005	0.19	61.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		7.47	7.47	< 0.005	< 0.005	0.01	7.57
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.24	1.24	< 0.005	< 0.005	< 0.005	1.25
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Demolition	Demolition	6/1/2025	6/4/2025	6	3	
Site Prepar	Site Prepar	6/5/2025	7/2/2025	6	24	
Grading	Grading	7/3/2025	########	6	74	
Building Co	Building Co	########	2/9/2028	6	742	
Paving	Paving	########	4/6/2028	6	49	
Architectui	Architectur	4/7/2028	6/2/2028	6	49	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepow	Load Factor
Demolition	Rubber Tir	Diesel	Average	2	8	367	0.4
Demolition	Excavators	Diesel	Average	3	8	36	0.38
Demolition	Concrete/I	Diesel	Average	1	8	33	0.73
Site Prepar	Rubber Tir	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Tractors/Lc	Diesel	Average	2	8	84	0.37
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Rubber Tir	Diesel	Average	1	8	367	0.4
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator	Diesel	Average	1	8	14	0.74
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lc	Diesel	Average	3	7	84	0.37
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectui	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Demolition				
Demolition	Worker	15	14.3	LDA,LDT1,LDT2
Demolition	Vendor		8.8	HHDT,MHDT
Demolition	Hauling	0	20	HHDT
Demolition	Onsite truck			HHDT
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	20	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	28.5	14.3	LDA,LDT1,LDT2
Building Co	Vendor	14.1	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectui	Worker	5.7	14.3	LDA,LDT1,LDT2
Architectui	Vendor		8.8	HHDT,MHDT
Architectui	Hauling	0	20	HHDT
Architectui	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectui	0	0	505448	168483	28743

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material Ex	Acres Paved (acres)
Demolition	0	0	0		
Site Preparation			36	0	
Grading			222	0	
Paving	0	0	0	0	11

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Redu	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
General Of	0	0
Free-Stand	0	0
Health Clut	0	0

High Turno	0	0
Other Non-	0.2	0
City Park	0	0
City Park	0	0
City Park	0	0
Free-Stand	0	0
Health Clul	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Of	0	0
Day-Care C	0	0
Day-Care C	0	0
Day-Care C	0	0
Health Clul	0	0
City Park	0	0
Fast Food F	0	0
Fast Food F	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Of	0	0
High Turno	0	0
Hospital	0	0
City Park	0	0
Automobili	0	0
Health Clul	0	0
Parking Lot	4.5	100
Parking Lot	6.3	100

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Yr	CO2	CH4	N2O
2025	0	295	0.01	< 0.005
2026	0	279	0.01	< 0.005
2027	0	267	0.01	< 0.005
2028	0	253	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 210

Climate Ha	Result for Pr	Unit
Temperatu	21.2	annual days of extreme heat
Extreme Pr	4.1	annual days with precipitation above 20 mm
Sea Level R	0	meters of inundation depth
Wildfire	0	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 r

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 r

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

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

6.2. Initial Climate Risk Scores

Climate Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	1	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	1	1	1	2
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Si	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Wast	64.4
Sensitive Population	
Asthma	24.7
Cardio-vasu	32
Low Birth V	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployn	7.77

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 Pov	60.34903
Employed	0.526113
Median Hi	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent ho	66.67522
Voting	91.95432
Neighborhood	
Alcohol ava	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc rei	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kic	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4

Health Risk Behaviors	
Binge Drinl	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ri:	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acc	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46
Healthy Pla	46
Project Loc	No
Project Loc	No
Project Loc	No

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

7.4. Health & Equity Measures

Measure T	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Point	Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure T	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	project description
	6 days per week, 36 month buildout
Constructio	
Operations	3,554,820 Gallons/year for the exhibits

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Na	EGZ Phase 1 operations
Operations	2029
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatio	36.6
Location	38.37891510696102, -121.38702398167291
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.21

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreag	Building Ar	Landscape	Special Lan	Population	Description
General Of	57.5	1000sqft	0	0				
Free-Stand	18.1	1000sqft	0.42	18100				
Day-Care C	2.7	1000sqft	0.06	2700				
Other Asph	8.6	1000sqft	0.2	0				
City Park	5.72	Acre	5.72	0	249015	249015		
Parking Lot	1200	Space	10.8	0				

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	0.29	0.87	0.29	4.26	0.01	0.01	0.83	0.84	0.01	0.21	0.22	100	2265	2365	7.48	0.1	2.55	2584
Mit.	0.29	0.87	0.29	4.26	0.01	0.01	0.83	0.84	0.01	0.21	0.22	100	1381	1481	7.43	0.09	2.55	1697
% Reduced													39	37.4	0.64	6.35		34.3
Daily, Winter (Max)																		
Unmit.	0.13	0.73	0.33	2.43	0.01	0.01	0.83	0.83	0.01	0.21	0.22	100	2179	2279	7.48	0.1	0.16	2497
Mit.	0.13	0.73	0.33	2.43	0.01	0.01	0.83	0.83	0.01	0.21	0.22	100	1295	1395	7.43	0.1	0.16	1610
% Reduced													40.6	38.8	0.64	6.19		35.5
Average Daily (Max)																		
Unmit.	0.24	0.83	0.31	3.19	0.01	0.01	0.81	0.82	0.01	0.21	0.21	100	2199	2299	7.48	0.1	1.16	2517
Mit.	0.24	0.83	0.31	3.19	0.01	0.01	0.81	0.82	0.01	0.21	0.21	100	1315	1415	7.43	0.09	1.16	1630
% Reduced													40.2	38.5	0.64	6.25		35.2
Annual (Max)																		
Unmit.	0.04	0.15	0.06	0.58	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	16.6	364	381	1.24	0.02	0.19	417
Mit.	0.04	0.15	0.06	0.58	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	16.6	218	234	1.23	0.02	0.19	270
% Reduced													40.2	38.5	0.64	6.25		35.2

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	0.13	0.1	0.28	3.35	0.01	0.01	0.83	0.83	0.01	0.21	0.22		924	924	0.02	0.03	2.45	936
Area	0.16	0.77	0.01	0.9	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.72	3.72	< 0.005	< 0.005		3.73
Energy	0	0	0	0	0	0		0	0		0		1256	1256	0.07	0.01		1260
Water												27.5	80.9	108	0.1	0.06		129
Waste												72.9	0	72.9	7.29	0		255
Refrig.																	0.1	0.1
Total	0.29	0.87	0.29	4.26	0.01	0.01	0.83	0.84	0.01	0.21	0.22	100	2265	2365	7.48	0.1	2.55	2584
Daily, Winter (Max)																		
Mobile	0.13	0.1	0.33	2.43	0.01	0.01	0.83	0.83	0.01	0.21	0.22		842	842	0.02	0.03	0.06	852
Area		0.62																
Energy	0	0	0	0	0	0		0	0		0		1256	1256	0.07	0.01		1260
Water												27.5	80.9	108	0.1	0.06		129
Waste												72.9	0	72.9	7.29	0		255
Refrig.																	0.1	0.1
Total	0.13	0.73	0.33	2.43	0.01	0.01	0.83	0.83	0.01	0.21	0.22	100	2179	2279	7.48	0.1	0.16	2497
Average Daily																		
Mobile	0.13	0.1	0.31	2.57	0.01	0.01	0.81	0.81	0.01	0.21	0.21		859	859	0.02	0.03	1.06	870
Area	0.11	0.73	0.01	0.62	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.55	2.55	< 0.005	< 0.005		2.56
Energy	0	0	0	0	0	0		0	0		0		1256	1256	0.07	0.01		1260
Water												27.5	80.9	108	0.1	0.06		129
Waste												72.9	0	72.9	7.29	0		255
Refrig.																	0.1	0.1
Total	0.24	0.83	0.31	3.19	0.01	0.01	0.81	0.82	0.01	0.21	0.21	100	2199	2299	7.48	0.1	1.16	2517
Annual																		
Mobile	0.02	0.02	0.06	0.47	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04		142	142	< 0.005	0.01	0.18	144
Area	0.02	0.13	< 0.005	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0.42	0.42	< 0.005	< 0.005		0.42
Energy	0	0	0	0	0	0		0	0		0		208	208	0.01	< 0.005		209
Water												4.56	13.4	18	0.02	0.01		21.4
Waste												12.1	0	12.1	1.21	0		42.2
Refrig.																	0.02	0.02
Total	0.04	0.15	0.06	0.58	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	16.6	364	381	1.24	0.02	0.19	417

2.6. Operations Emissions by Sector, Mitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	0.13	0.1	0.28	3.35	0.01	0.01	0.83	0.83	0.01	0.21	0.22		924	924	0.02	0.03	2.45	936
Area	0.16	0.77	0.01	0.9	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.72	3.72	< 0.005	< 0.005		3.73
Energy	0	0	0	0	0	0		0	0		0		372	372	0.02	< 0.005		373
Water												27.5	80.9	108	0.1	0.06		129
Waste												72.9	0	72.9	7.29	0		255
Refrig.																	0.1	0.1
Total	0.29	0.87	0.29	4.26	0.01	0.01	0.83	0.84	0.01	0.21	0.22	100	1381	1481	7.43	0.09	2.55	1697
Daily, Winter (Max)																		
Mobile	0.13	0.1	0.33	2.43	0.01	0.01	0.83	0.83	0.01	0.21	0.22		842	842	0.02	0.03	0.06	852
Area		0.62																
Energy	0	0	0	0	0	0		0	0		0		372	372	0.02	< 0.005		373
Water												27.5	80.9	108	0.1	0.06		129
Waste												72.9	0	72.9	7.29	0		255
Refrig.																	0.1	0.1
Total	0.13	0.73	0.33	2.43	0.01	0.01	0.83	0.83	0.01	0.21	0.22	100	1295	1395	7.43	0.1	0.16	1610
Average Daily																		
Mobile	0.13	0.1	0.31	2.57	0.01	0.01	0.81	0.81	0.01	0.21	0.21		859	859	0.02	0.03	1.06	870
Area	0.11	0.73	0.01	0.62	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.55	2.55	< 0.005	< 0.005		2.56
Energy	0	0	0	0	0	0		0	0		0		372	372	0.02	< 0.005		373
Water												27.5	80.9	108	0.1	0.06		129
Waste												72.9	0	72.9	7.29	0		255
Refrig.																	0.1	0.1
Total	0.24	0.83	0.31	3.19	0.01	0.01	0.81	0.82	0.01	0.21	0.21	100	1315	1415	7.43	0.09	1.16	1630
Annual																		
Mobile	0.02	0.02	0.06	0.47	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04		142	142	< 0.005	0.01	0.18	144
Area	0.02	0.13	< 0.005	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0.42	0.42	< 0.005	< 0.005		0.42
Energy	0	0	0	0	0	0		0	0		0		61.6	61.6	< 0.005	< 0.005		61.8
Water												4.56	13.4	18	0.02	0.01		21.4
Waste												12.1	0	12.1	1.21	0		42.2
Refrig.																	0.02	0.02
Total	0.04	0.15	0.06	0.58	< 0.005	< 0.005	0.15	0.15	< 0.005	0.04	0.04	16.6	218	234	1.23	0.02	0.19	270

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building													863	863	0.05	0.01		866
Free-Standing Discount store													110	110	0.01	< 0.005		111
Day-Care Center													13.4	13.4	< 0.005	< 0.005		13.5
Other Asphalt Surfaces													0	0	0	0		0
City Park													0	0	0	0		0
Parking Lot													269	269	0.01	< 0.005		270
Total													1256	1256	0.07	0.01		1260
Daily, Winter (Max)																		
General Office Building													863	863	0.05	0.01		866
Free-Standing Discount store													110	110	0.01	< 0.005		111
Day-Care Center													13.4	13.4	< 0.005	< 0.005		13.5
Other Asphalt Surfaces													0	0	0	0		0
City Park													0	0	0	0		0
Parking Lot													269	269	0.01	< 0.005		270
Total													1256	1256	0.07	0.01		1260
Annual																		
General Office Building													143	143	0.01	< 0.005		143
Free-Standing Discount store													18.3	18.3	< 0.005	< 0.005		18.4
Day-Care Center													2.22	2.22	< 0.005	< 0.005		2.23
Other Asphalt Surfaces													0	0	0	0		0
City Park													0	0	0	0		0
Parking Lot													44.5	44.5	< 0.005	< 0.005		44.6
Total													208	208	0.01	< 0.005		209

4.2.2. Electricity Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building													0	0	0	0		0
Free-Standing Discount store													89.7	89.7	< 0.005	< 0.005		90
Day-Care Center													13.4	13.4	< 0.005	< 0.005		13.5
Other Asphalt Surfaces													0	0	0	0		0
City Park													0	0	0	0		0
Parking Lot													269	269	0.01	< 0.005		270
Total													372	372	0.02	< 0.005		373
Daily, Winter (Max)																		
General Office Building													0	0	0	0		0
Free-Standing Discount store													89.7	89.7	< 0.005	< 0.005		90
Day-Care Center													13.4	13.4	< 0.005	< 0.005		13.5
Other Asphalt Surfaces													0	0	0	0		0

City Park												0	0	0	0		0
Parking Lot												269	269	0.01	< 0.005		270
Total												372	372	0.02	< 0.005		373
Annual																	
General Office Building												0	0	0	0		0
Free-Standing Discount store												14.9	14.9	< 0.005	< 0.005		14.9
Day-Care Center												2.22	2.22	< 0.005	< 0.005		2.23
Other Asphalt Surfaces												0	0	0	0		0
City Park												0	0	0	0		0
Parking Lot												44.5	44.5	< 0.005	< 0.005		44.6
Total												61.6	61.6	< 0.005	< 0.005		61.8

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Of		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Free-Stand		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Day-Care C		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Other Asph		0	0	0	0	0	0		0	0		0	0	0	0	0		0
City Park		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Parking Lot		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Daily, Winter (Max)																		
General Of		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Free-Stand		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Day-Care C		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Other Asph		0	0	0	0	0	0		0	0		0	0	0	0	0		0
City Park		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Parking Lot		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Annual																		
General Of		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Free-Stand		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Day-Care C		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Other Asph		0	0	0	0	0	0		0	0		0	0	0	0	0		0
City Park		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Parking Lot		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0	0	0	0	0		0

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Of		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Free-Stand		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Day-Care C		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Other Asph		0	0	0	0	0	0		0	0		0	0	0	0	0		0
City Park		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Parking Lot		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Daily, Winter (Max)																		
General Of		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Free-Stand		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Day-Care C		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Other Asph		0	0	0	0	0	0		0	0		0	0	0	0	0		0
City Park		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Parking Lot		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Annual																		
General Of		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Free-Stand		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Day-Care C		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Other Asph		0	0	0	0	0	0		0	0		0	0	0	0	0		0
City Park		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Parking Lot		0	0	0	0	0	0		0	0		0	0	0	0	0		0
Total		0	0	0	0	0	0		0	0		0	0	0	0	0		0

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		0.62																
Landscape	0.16	0.15	0.01	0.9	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.72	3.72	< 0.005	< 0.005		3.73
Total	0.16	0.77	0.01	0.9	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.72	3.72	< 0.005	< 0.005		3.73
Daily, Winter (Max)																		
Consumer Products		0.62																
Total		0.62																
Annual																		
Consumer Products		0.11																
Landscape	0.02	0.02	< 0.005	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0.42	0.42	< 0.005	< 0.005		0.42
Total	0.02	0.13	< 0.005	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0.42	0.42	< 0.005	< 0.005		0.42

4.3.2. Mitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		0.62																
Landscape	0.16	0.15	0.01	0.9	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.72	3.72	< 0.005	< 0.005		3.73
Total	0.16	0.77	0.01	0.9	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.72	3.72	< 0.005	< 0.005		3.73
Daily, Winter (Max)																		
Consumer Products		0.62																
Total		0.62																
Annual																		
Consumer Products		0.11																
Landscape	0.02	0.02	< 0.005	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0.42	0.42	< 0.005	< 0.005		0.42
Total	0.02	0.13	< 0.005	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		0.42	0.42	< 0.005	< 0.005		0.42

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												24.4	20.1	44.6	0.08	0.05		62.6
Free-Standing Discount store												2.87	2.36	5.23	0.01	0.01		7.35
Day-Care Center												0.25	0.2	0.45	< 0.005	< 0.005		0.63
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
City Park												0	58.2	58.2	< 0.005	< 0.005		58.4
Parking Lot												0	0	0	0	0		0
Total												27.5	80.9	108	0.1	0.06		129
Daily, Winter (Max)																		
General Office Building												24.4	20.1	44.6	0.08	0.05		62.6
Free-Standing Discount store												2.87	2.36	5.23	0.01	0.01		7.35
Day-Care Center												0.25	0.2	0.45	< 0.005	< 0.005		0.63
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
City Park												0	58.2	58.2	< 0.005	< 0.005		58.4
Parking Lot												0	0	0	0	0		0
Total												27.5	80.9	108	0.1	0.06		129
Annual																		
General Office Building												4.04	3.33	7.38	0.01	0.01		10.4
Free-Standing Discount store												0.47	0.39	0.87	< 0.005	< 0.005		1.22
Day-Care Center												0.04	0.03	0.07	< 0.005	< 0.005		0.11
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
City Park												0	9.64	9.64	< 0.005	< 0.005		9.67
Parking Lot												0	0	0	0	0		0
Total												4.56	13.4	18	0.02	0.01		21.4

4.4.2. Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												24.4	20.1	44.6	0.08	0.05		62.6
Free-Standing Discount store												2.87	2.36	5.23	0.01	0.01		7.35
Day-Care Center												0.25	0.2	0.45	< 0.005	< 0.005		0.63
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
City Park												0	58.2	58.2	< 0.005	< 0.005		58.4
Parking Lot												0	0	0	0	0		0
Total												27.5	80.9	108	0.1	0.06		129
Daily, Winter (Max)																		
General Office Building												24.4	20.1	44.6	0.08	0.05		62.6
Free-Standing Discount store												2.87	2.36	5.23	0.01	0.01		7.35
Day-Care Center												0.25	0.2	0.45	< 0.005	< 0.005		0.63
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
City Park												0	58.2	58.2	< 0.005	< 0.005		58.4
Parking Lot												0	0	0	0	0		0
Total												27.5	80.9	108	0.1	0.06		129
Annual																		
General Office Building												4.04	3.33	7.38	0.01	0.01		10.4
Free-Standing Discount store												0.47	0.39	0.87	< 0.005	< 0.005		1.22
Day-Care Center												0.04	0.03	0.07	< 0.005	< 0.005		0.11
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
City Park												0	9.64	9.64	< 0.005	< 0.005		9.67
Parking Lot												0	0	0	0	0		0
Total												4.56	13.4	18	0.02	0.01		21.4

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												28.8	0	28.8	2.88	0		101
Free-Standing Discount store												42	0	42	4.19	0		147
Day-Care Center												1.89	0	1.89	0.19	0		6.62
Other Asphalt Surfaces												0	0	0	0	0		0
City Park												0.27	0	0.27	0.03	0		0.93
Parking Lot												0	0	0	0	0		0
Total												72.9	0	72.9	7.29	0		255
Daily, Winter (Max)																		
General Office Building												28.8	0	28.8	2.88	0		101
Free-Standing Discount store												42	0	42	4.19	0		147
Day-Care Center												1.89	0	1.89	0.19	0		6.62
Other Asphalt Surfaces												0	0	0	0	0		0
City Park												0.27	0	0.27	0.03	0		0.93
Parking Lot												0	0	0	0	0		0
Total												72.9	0	72.9	7.29	0		255
Annual																		
General Office Building												4.77	0	4.77	0.48	0		16.7
Free-Standing Discount store												6.95	0	6.95	0.69	0		24.3
Day-Care Center												0.31	0	0.31	0.03	0		1.1
Other Asphalt Surfaces												0	0	0	0	0		0
City Park												0.04	0	0.04	< 0.005	0		0.15

Parking Lot											0	0	0	0	0		0
Total											12.1	0	12.1	1.21	0		42.2

4.5.2. Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												28.8	0	28.8	2.88	0		101
Free-Standing Discount store												42	0	42	4.19	0		147
Day-Care Center												1.89	0	1.89	0.19	0		6.62
Other Asphalt Surfaces												0	0	0	0	0		0
City Park												0.27	0	0.27	0.03	0		0.93
Parking Lot												0	0	0	0	0		0
Total												72.9	0	72.9	7.29	0		255
Daily, Winter (Max)																		
General Office Building												28.8	0	28.8	2.88	0		101
Free-Standing Discount store												42	0	42	4.19	0		147
Day-Care Center												1.89	0	1.89	0.19	0		6.62
Other Asphalt Surfaces												0	0	0	0	0		0
City Park												0.27	0	0.27	0.03	0		0.93
Parking Lot												0	0	0	0	0		0
Total												72.9	0	72.9	7.29	0		255
Annual																		
General Office Building												4.77	0	4.77	0.48	0		16.7
Free-Standing Discount store												6.95	0	6.95	0.69	0		24.3
Day-Care Center												0.31	0	0.31	0.03	0		1.1
Other Asphalt Surfaces												0	0	0	0	0		0
City Park												0.04	0	0.04	< 0.005	0		0.15
Parking Lot												0	0	0	0	0		0
Total												12.1	0	12.1	1.21	0		42.2

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building																	0	0
Free-Standing Discount store																	0.09	0.09
Day-Care Center																	0.01	0.01
City Park																	0	0
Total																	0.1	0.1
Daily, Winter (Max)																		
General Office Building																	0	0
Free-Standing Discount store																	0.09	0.09
Day-Care Center																	0.01	0.01
City Park																	0	0
Total																	0.1	0.1
Annual																		
General Office Building																	0	0
Free-Standing Discount store																	0.01	0.01
Day-Care Center																	< 0.005	< 0.005
City Park																	0	0
Total																	0.02	0.02

4.6.2. Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building																	0	0
Free-Standing Discount store																	0.09	0.09
Day-Care Center																	0.01	0.01
City Park																	0	0
Total																	0.1	0.1
Daily, Winter (Max)																		
General Office Building																	0	0
Free-Standing Discount store																	0.09	0.09
Day-Care Center																	0.01	0.01
City Park																	0	0
Total																	0.1	0.1
Annual																		
General Office Building																	0	0
Free-Standing Discount store																	0.01	0.01
Day-Care Center																	< 0.005	< 0.005
City Park																	0	0
Total																	0.02	0.02

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.7.2. Mitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.8.2. Mitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.9.2. Mitigated

Equipment	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
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

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use	T	Trips/Weel	Trips/Satur	Trips/Sund	Trips/Year	VMT/Week	VMT/Satur	VMT/Sund	VMT/Year
Total all La		< 0.005	< 0.005	< 0.005	1	1168	1168	1168	426320

5.9.2. Mitigated

Land Use	T	Trips/Weel	Trips/Satur	Trips/Sund	Trips/Year	VMT/Week	VMT/Satur	VMT/Sund	VMT/Year
Total all La		< 0.005	< 0.005	< 0.005	1	1168	1168	1168	426320

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Typ	Unmitigated (number)

5.10.1.2. Mitigated

Hearth Typ	Unmitigated (number)

5.10.2. Architectural Coatings

Residential	Residential	Non-Resid	Non-Resid	Parking Area Coated (sq ft)

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer D	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0
Summer D	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Land Use	Electricity (CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Of	1323903	238	0.0129	0.0017 0
Free-Stand	169440	238	0.0129	0.0017 0
Day-Care C	20584	238	0.0129	0.0017 0
Other Aspł	0	238	0.0129	0.0017 0
City Park	0	238	0.0129	0.0017 0
Parking Lot	412112	238	0.0129	0.0017 0

5.11.2. Mitigated

Land Use	Electricity (CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Of	0	238	0.0129	0.0017 0
Free-Stand	137570	238	0.0129	0.0017 0
Day-Care C	20584	238	0.0129	0.0017 0
Other Aspł	0	238	0.0129	0.0017 0
City Park	0	238	0.0129	0.0017 0
Parking Lot	412112	238	0.0129	0.0017 0

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Wat	Outdoor Water (gal/year)
Governmer	11422932	1
Free-Stand	1340713	1
Day-Care C	115802	1
Other Aspł	0	1
City Park	0	55358005
Parking Lot	0	0

5.12.2. Mitigated

Land Use	Indoor Wat	Outdoor Water (gal/year)
Governmer	11422932	1
Free-Stand	1340713	1
Day-Care C	115802	1
Other Aspł	0	1
City Park	0	55358005
Parking Lot	0	0

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton	Cogeneration (kWh/year)
General Of	53.5	
Free-Stand	77.8	
Day-Care C	3.51	
Other Aspł	0	
City Park	0.49	
Parking Lot	0	

5.13.2. Mitigated

Land Use	Waste (ton	Cogeneration (kWh/year)
General Of	53.5	
Free-Stand	77.8	
Day-Care C	3.51	
Other Aspł	0	
City Park	0.49	
Parking Lot	0	

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	T	Equipment	Refrigerant	GWP	Quantity (k	Operations	Service Lea	Times Serviced
General Of		Household	R-134a	1430	0.02	0.6	0	1
General Of		Other com	R-410A	2088	< 0.005	4	4	18
Free-Stand		Other com	R-410A	2088	< 0.005	4	4	18
Free-Stand		Stand-alon	R-134a	1430	0.04	1	0	1
Day-Care C		Household	R-134a	1430	0.02	0.6	0	1
Day-Care C		Other com	R-410A	2088	< 0.005	4	4	18
Day-Care C		Stand-alon	R-134a	1430	< 0.005	1	0	1
Day-Care C		Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
City Park		Other com	R-410A	2088	< 0.005	4	4	18
City Park		Stand-alon	R-134a	1430	0.04	1	0	1

5.14.2. Mitigated

Land Use	T	Equipment	Refrigerant	GWP	Quantity (k	Operations	Service Lea	Times Serviced
General Of		Household	R-134a	1430	0.02	0.6	0	1
General Of		Other com	R-410A	2088	< 0.005	4	4	18
Free-Stand		Other com	R-410A	2088	< 0.005	4	4	18
Free-Stand		Stand-alon	R-134a	1430	0.04	1	0	1
Day-Care C		Household	R-134a	1430	0.02	0.6	0	1
Day-Care C		Other com	R-410A	2088	< 0.005	4	4	18
Day-Care C		Stand-alon	R-134a	1430	< 0.005	1	0	1
Day-Care C		Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
City Park		Other com	R-410A	2088	< 0.005	4	4	18
City Park		Stand-alon	R-134a	1430	0.04	1	0	1

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepow	Load Factor

5.15.2. Mitigated

Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepow	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment	Fuel Type	Number pe	Hours per D	Hours per Y	Horsepow	Load Factor

5.16.2. Process Boilers

Equipment	Fuel Type	Number	Boiler Ratii	Daily Heat	Annual Heat Input (MMBtu/yr)

5.17. User Defined
Equipment Fuel Type

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated
Vegetation Vegetation Initial Acre Final Acres

5.18.1.2. Mitigated
Vegetation Vegetation Initial Acre Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated
Biomass Cc Initial Acre Final Acres

5.18.1.2. Mitigated
Biomass Cc Initial Acre Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated
Tree Type Number Electricity : Natural Gas Saved (btu/year)

5.18.2.2. Mitigated
Tree Type Number Electricity : Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report
6.1. Climate Risk Summary
Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 210
Climate Ha Result for F Unit
Temperatu 19.8 annual days of extreme heat
Extreme Pr 5 annual days with precipitation above 20 mm
Sea Level Rise meters of inundation depth
Wildfire 0 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 r
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 r
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores
Climate Ha Exposure S Sensitivity Adaptive C Vulnerability Score
Temperatu 1 0 0 N/A
Extreme Pr 2 0 0 N/A
Sea Level R N/A N/A N/A N/A
Wildfire 1 0 0 N/A
Flooding 0 0 0 N/A
Drought 0 0 0 N/A
Snowpack N/A N/A N/A N/A
Air Quality 0 0 0 N/A
The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures

6.3. Adjusted Climate Risk Scores
Climate Ha Exposure S Sensitivity Adaptive C Vulnerability Score
Temperatu 1 1 1 2
Extreme Pr 2 1 1 3
Sea Level R N/A N/A N/A N/A
Wildfire 1 1 1 2
Flooding 1 1 1 2
Drought 1 1 1 2
Snowpack N/A N/A N/A N/A
Air Quality 1 1 1 2
The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state
Indicator Result for Project Census Tract
Exposure Indicators
AQ-Ozone 45.1
AQ-PM 37.5
AQ-DPM 24.8
Drinking W 69.9
Lead Risk H 5.61
Pesticides 76.5
Toxic Relea 13.1
Traffic 58.7
Effect Indicators
CleanUp Si 61.8
Groundwat 82.1
Haz Waste 67.6
Impaired W 94.6
Solid Wast 64.4
Sensitive Population
Asthma 24.7
Cardio-vasu 32
Low Birth V 77.8
Socioeconomic Factor Indicators
Education 41.6
Housing 42.8
Linguistic 26.4
Poverty 13
Unemployn 7.77

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 Pov 60.34903
Employed 0.526113
Median HI 67.31682
Education
Bachelor's 51.50776
High schoo 19.24804
Preschool 95.7141
Transportation
Auto Acces 43.3081
Active com 34.86462
Social
2-parent h 66.67522
Voting 91.95432
Neighborhood
Alcohol ava 90.56846
Park access 6.351854
Retail dens 9.162069
Supermark 36.13499
Tree canop 25.22777
Housing
Homeowne 70.21686
Housing ha 88.97729
Low-inc ho 91.58219
Low-inc rel 88.61799
Uncrowdec 66.91903
Health Outcomes
Insured ad 87.8609
Arthritis 1.2
Asthma ER 54
High Blood 2.1
Cancer (exc 2.7
Asthma 28
Coronary H 1.9
Chronic Ob 3.4
Diagnosed 9.5
Life Expect 46
Cognitively 16
Physically 31
Heart Attac 39
Mental Hea 52
Chronic Kic 2.1
Obesity 52
Pedestrian 71
Physical He 28
Stroke 4.4
Health Risk Behaviors
Binge Drinl 98
Current Sm 42
No Leisure 36
Climate Change Exposures
Wildfire Ri 0
SLR Inunda 0
Children 60
Elderly 20
English Spe 78
Foreign-bo 43
Outdoor W 43
Climate Change Adaptive Capacity
Impervious 95
Traffic Den 45
Traffic Acc 23
Other Indices
Hardship 53
Other Decision Support
2016 Votin 77

7.3. Overall Health & Equity Scores
Metric Result for Project Census Tract
CalEnviroSi 46
Healthy Pla 46
Project Loc No

Project Loc No
Project Loc No
a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state

7.4. Health & Equity Measures
Measure T Co-Benefits Achieved

7.5. Evaluation Scorecard
Category Number of Total Point Max Possib Weighted Score

7.6. Health & Equity Custom Measures
Measure T Sponsor

8. User Changes to Default Data
Screen Justification
Operations No Natural Gas, fully electric project
Operations phase 1A-1B water usage

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 1B
Constructic	########
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.37848728111305, -121.38836547957598
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.20

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
City Park	0.06	Acre	0.06	0	2600	2600		Alligator
City Park	0.06	Acre	0.06	0	2800	2800		Capybara
City Park	0.05	Acre	0.05	0	2200	2200		Squirrel Monkey
City Park	0.12	Acre	0.12	0	5100	5100		Lemur
City Park	0.34	Acre	0.34	0	15000	15000		Africa Aviary (birds)
City Park	0.25	Acre	0.25	0	11000	11000		Africa Aviary (okapi area)
City Park	0.08	Acre	0.08	0	3590	3590		Colobus Monkey
City Park	0.13	Acre	0.13	0	5800	5800		Giant Tortoise
Medical Of	7.8	1000sqft	0.18	7800				Animal Care Quarters
City Park	0.04	Acre	0.04	0	1600	1600		Meerkat
Medical Of	0.1	1000sqft	< 0.005	100				Animal Care Quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Constructic	C-5	Use Advanced Engine Tiers

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.34	1.05	10.2	10.7	0.03	0.31	0.36	0.58	0.29	0.09	0.36		2738	2738	0.16	0.16	1.96	2793
Mit.	0.44	0.33	5.92	11.8	0.03	0.08	0.36	0.41	0.08	0.09	0.15		2738	2738	0.16	0.16	1.96	2793
% Reduced	67.2	68.2	41.7	−9.71		74.2		29.8	73		58.5							
Daily, Winter (Max)																		
Unmit.	1.95	1.57	15.8	15.6	0.03	0.66	7.42	8.08	0.61	3.51	4.12		3449	3449	0.19	0.17	0.06	3503
Mit.	0.44	1.27	6.14	15.3	0.03	0.08	7.42	7.48	0.08	3.51	3.57		3449	3449	0.19	0.17	0.06	3503
% Reduced	77.2	19.4	61.2	1.75		87.8		7.39	87.2		13.2							
Average Daily (Max)																		
Unmit.	1.15	0.9	8.78	9.17	0.02	0.27	0.57	0.66	0.25	0.26	0.35		2345	2345	0.13	0.14	0.73	2391
Mit.	0.37	0.38	5.15	10.1	0.02	0.07	0.57	0.58	0.07	0.26	0.27		2345	2345	0.13	0.14	0.73	2391
% Reduced	67.3	57.4	41.3	−9.74		74.2		12.1	73		21							
Annual (Max)																		
Unmit.	0.21	0.16	1.6	1.67	< 0.005	0.05	0.1	0.12	0.04	0.05	0.06		388	388	0.02	0.02	0.12	396
Mit.	0.07	0.07	0.94	1.84	< 0.005	0.01	0.1	0.11	0.01	0.05	0.05		388	388	0.02	0.02	0.12	396
% Reduced	67.3	57.4	41.3	−9.74		74.2		12.1	73		21							

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2026	1.34	1.05	10.2	10.7	0.03	0.31	0.27	0.58	0.29	0.07	0.36		2738	2738	0.16	0.16	1.96	2793
2027	1.28	1.01	9.76	10.7	0.03	0.28	0.27	0.55	0.26	0.07	0.33		2716	2716	0.15	0.16	1.8	2768
2028	1.22	0.96	9.31	10.6	0.03	0.25	0.36	0.52	0.23	0.09	0.3		2692	2692	0.14	0.15	1.9	2742
Daily - Winter (Max)																		
2025	1.95	1.57	15.8	15.6	0.03	0.66	7.42	8.08	0.61	3.51	4.12		3449	3449	0.19	0.17	0.06	3503
2026	1.34	1.05	10.3	10.7	0.03	0.31	0.27	0.58	0.29	0.07	0.36		2735	2735	0.16	0.16	0.05	2787
2027	1.28	1	9.88	10.6	0.03	0.28	0.27	0.55	0.26	0.07	0.33		2713	2713	0.15	0.16	0.05	2763
2028	1.22	1.35	9.43	10.6	0.03	0.25	0.36	0.52	0.23	0.09	0.3		2689	2689	0.15	0.15	0.05	2737
Average Daily																		
2025	0.34	0.27	2.66	2.64	0.01	0.1	0.57	0.66	0.09	0.26	0.35		640	640	0.04	0.04	0.2	652
2026	1.15	0.9	8.78	9.17	0.02	0.27	0.23	0.49	0.25	0.06	0.3		2345	2345	0.13	0.14	0.73	2391
2027	1.1	0.86	8.44	9.1	0.02	0.24	0.23	0.47	0.22	0.06	0.28		2326	2326	0.13	0.13	0.67	2370
2028	0.85	0.81	6.7	7.59	0.02	0.18	0.23	0.41	0.16	0.06	0.22		2001	2001	0.11	0.13	0.61	2042
Annual																		
2025	0.06	0.05	0.48	0.48	< 0.005	0.02	0.1	0.12	0.02	0.05	0.06		106	106	0.01	0.01	0.03	108
2026	0.21	0.16	1.6	1.67	< 0.005	0.05	0.04	0.09	0.04	0.01	0.06		388	388	0.02	0.02	0.12	396
2027	0.2	0.16	1.54	1.66	< 0.005	0.04	0.04	0.09	0.04	0.01	0.05		385	385	0.02	0.02	0.11	392
2028	0.16	0.15	1.22	1.39	< 0.005	0.03	0.04	0.07	0.03	0.01	0.04		331	331	0.02	0.02	0.1	338

2.3. Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2026	0.44	0.33	5.92	11.8	0.03	0.08	0.27	0.35	0.08	0.07	0.15		2738	2738	0.16	0.16	1.96	2793
2027	0.43	0.33	5.84	11.7	0.03	0.08	0.27	0.35	0.08	0.07	0.15		2716	2716	0.15	0.16	1.8	2768
2028	0.43	0.33	5.75	11.7	0.03	0.08	0.36	0.41	0.08	0.09	0.15		2692	2692	0.14	0.15	1.9	2742
Daily - Winter (Max)																		
2025	0.44	0.33	6.14	15.3	0.03	0.08	7.42	7.48	0.08	3.51	3.57		3449	3449	0.19	0.17	0.06	3503
2026	0.44	0.33	6.05	11.7	0.03	0.08	0.27	0.35	0.08	0.07	0.15		2735	2735	0.16	0.16	0.05	2787
2027	0.43	0.33	5.95	11.7	0.03	0.08	0.27	0.35	0.08	0.07	0.15		2713	2713	0.15	0.16	0.05	2763
2028	0.42	1.27	5.86	11.7	0.03	0.08	0.36	0.41	0.08	0.09	0.15		2689	2689	0.15	0.15	0.05	2737
Average Daily																		
2025	0.09	0.07	1.09	2.76	0.01	0.02	0.57	0.58	0.02	0.26	0.27		640	640	0.04	0.04	0.2	652
2026	0.37	0.28	5.15	10.1	0.02	0.07	0.23	0.3	0.07	0.06	0.13		2345	2345	0.13	0.14	0.73	2391
2027	0.37	0.28	5.07	10	0.02	0.07	0.23	0.3	0.07	0.06	0.13		2326	2326	0.13	0.13	0.67	2370
2028	0.31	0.38	4.16	8.31	0.02	0.06	0.23	0.29	0.05	0.06	0.12		2001	2001	0.11	0.13	0.61	2042
Annual																		
2025	0.02	0.01	0.2	0.5	< 0.005	< 0.005	0.1	0.11	< 0.005	0.05	0.05		106	106	0.01	0.01	0.03	108
2026	0.07	0.05	0.94	1.84	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02		388	388	0.02	0.02	0.12	396
2027	0.07	0.05	0.93	1.83	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02		385	385	0.02	0.02	0.11	392
2028	0.06	0.07	0.76	1.52	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02		331	331	0.02	0.02	0.1	338

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Ei	1.56	1.31	12.1	12.1	0.02	0.56		0.56	0.52		0.52		2065	2065	0.08	0.02		2072
Dust From Material Movement							6.27	6.27		3	3							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.04	0.03	0.3	0.3	< 0.005	0.01		0.01	0.01		0.01		50.9	50.9	< 0.005	< 0.005		51.1
Dust From Material Movement							0.15	0.15		0.07	0.07							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.01	0.01	0.05	0.05	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		8.43	8.43	< 0.005	< 0.005		8.46
Dust From Material Movement							0.03	0.03		0.01	0.01							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.03	0.03	0.03	0.33	0	0	0.08	0.08	0	0.02	0.02		75.6	75.6	< 0.005	< 0.005	0.01	76.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.11	0.02	1.74	0.63	0.01	0.02	0.23	0.25	0.02	0.06	0.08		897	897	0.09	0.14	0.05	942
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		22.1	22.1	< 0.005	< 0.005	0.02	23.2
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.66	3.66	< 0.005	< 0.005	< 0.005	3.85

3.2. Site Preparation (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Ei	0.19	0.19	1.01	11.9	0.02	0.04		0.04	0.04		0.04		2065	2065	0.08	0.02		2072
Dust From Material Movement							6.27	6.27		3	3							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	< 0.005	< 0.005	0.02	0.29	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		50.9	50.9	< 0.005	< 0.005		51.1
Dust From Material Movement							0.15	0.15		0.07	0.07							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	< 0.005	< 0.005	< 0.005	0.05	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		8.43	8.43	< 0.005	< 0.005		8.46
Dust From Material Movement							0.03	0.03		0.01	0.01							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.03	0.03	0.03	0.33	0	0	0.08	0.08	0	0.02	0.02		75.6	75.6	< 0.005	< 0.005	0.01	76.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.11	0.02	1.74	0.63	0.01	0.02	0.23	0.25	0.02	0.06	0.08		897	897	0.09	0.14	0.05	942
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		22.1	22.1	< 0.005	< 0.005	0.02	23.2
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.66	3.66	< 0.005	< 0.005	< 0.005	3.85

3.3. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		

Daily, Winter (Max)

Off-Road Eq	1.8	1.51	14.1	14.5	0.02	0.64		0.64	0.59		0.59		2455	2455	0.1	0.02	2463
Dust From Material Movement							7.09	7.09		3.43	3.43						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
Average Daily																	
Off-Road Eq	0.09	0.07	0.69	0.72	< 0.005	0.03		0.03	0.03		0.03		121	121	< 0.005	< 0.005	121
Dust From Material Movement							0.35	0.35		0.17	0.17						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
Annual																	
Off-Road Eq	0.02	0.01	0.13	0.13	< 0.005	0.01		0.01	0.01		0.01		20	20	< 0.005	< 0.005	20.1
Dust From Material Movement							0.06	0.06		0.03	0.03						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0
Offsite																	
Daily, Summer (Max)																	
Daily, Winter (Max)																	
Worker	0.04	0.04	0.04	0.44	0	0	0.1	0.1	0	0.02	0.02		101	101	< 0.005	< 0.005	0.01	102
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.11	0.02	1.73	0.63	0.01	0.02	0.23	0.25	0.02	0.06	0.08		893	893	0.09	0.14	0.05	937
Average Daily																	
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	5.1	5.1	< 0.005	< 0.005	0.01	5.17
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.01	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		44	44	< 0.005	0.01	0.04	46.3
Annual																	
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	0.84	0.84	< 0.005	< 0.005	< 0.005	0.86
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		7.29	7.29	< 0.005	< 0.005	0.01	7.66

3.4. Grading (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.23	0.23	1.2	14.2	0.02	0.05		0.05	0.05		0.05		2455	2455	0.1	0.02		2463
Dust From Material Movement							7.09	7.09		3.43	3.43							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.01	0.01	0.06	0.7	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		121	121	< 0.005	< 0.005		121
Dust From Material Movement							0.35	0.35		0.17	0.17							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	< 0.005	< 0.005	0.01	0.13	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20	20	< 0.005	< 0.005		20.1
Dust From Material Movement							0.06	0.06		0.03	0.03							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.04	0.04	0.44	0	0	0.1	0.1	0	0.02	0.02		101	101	< 0.005	< 0.005	0.01	102
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.11	0.02	1.73	0.63	0.01	0.02	0.23	0.25	0.02	0.06	0.08		893	893	0.09	0.14	0.05	937
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	5.1	5.1	< 0.005	< 0.005	0.01	5.17
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.01	< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		44	44	< 0.005	0.01	0.04	46.3
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	0.84	0.84	< 0.005	< 0.005	< 0.005	0.86
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		7.29	7.29	< 0.005	< 0.005	0.01	7.66

3.5. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	1.28	1.07	8.95	10	0.02	0.33		0.33	0.3		0.3		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.18	0.15	1.28	1.44	< 0.005	0.05		0.05	0.04		0.04		258	258	0.01	< 0.005		259
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.03	0.03	0.23	0.26	< 0.005	0.01		0.01	0.01		0.01		42.7	42.7	< 0.005	< 0.005		42.9
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.11	0	0	0.03	0.03	0	0.01	0.01		25.5	25.5	< 0.005	< 0.005	< 0.005	25.8
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005			37.4	37.4	< 0.005	0.01	< 0.005	39.1
Hauling	0.11	0.02	1.73	0.62	0.01	0.02	0.23	0.24	0.02	0.06	0.08		892	892	0.09	0.14	0.05	936
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	3.75	3.75	< 0.005	< 0.005	0.01	3.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.36	5.36	< 0.005	< 0.005	0.01	5.61
Hauling	0.02	< 0.005	0.24	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		128	128	0.01	0.02	0.12	134
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.89	0.89	< 0.005	< 0.005	< 0.005	0.93
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		21.1	21.1	< 0.005	< 0.005	0.02	22.2

3.6. Building Construction (2025) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.32	0.3	4.34	11	0.02	0.06		0.06	0.06		0.06		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.05	0.04	0.62	1.58	< 0.005	0.01		0.01	0.01		0.01		258	258	0.01	< 0.005		259
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.01	0.01	0.11	0.29	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		42.7	42.7	< 0.005	< 0.005		42.9
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.11	0	0	0.03	0.03	0	0.01	0.01		25.5	25.5	< 0.005	< 0.005	< 0.005	25.8
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005			37.4	37.4	< 0.005	0.01	< 0.005	39.1
Hauling	0.11	0.02	1.73	0.62	0.01	0.02	0.23	0.24	0.02	0.06	0.08		892	892	0.09	0.14	0.05	936
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	3.75	3.75	< 0.005	< 0.005	0.01	3.8
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.36	5.36	< 0.005	< 0.005	0.01	5.61
Hauling	0.02	< 0.005	0.24	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		128	128	0.01	0.02	0.12	134
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		0.89	0.89	< 0.005	< 0.005	< 0.005	0.93
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		21.1	21.1	< 0.005	< 0.005	0.02	22.2

3.7. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	1.22	1.01	8.57	9.96	0.02	0.29		0.29	0.27		0.27		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	1.22	1.01	8.57	9.96	0.02	0.29		0.29	0.27		0.27		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	1.05	0.87	7.34	8.53	0.02	0.25		0.25	0.23		0.23		1544	1544	0.06	0.01		1549
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.19	0.16	1.34	1.56	< 0.005	0.05		0.05	0.04		0.04		256	256	0.01	< 0.005		256
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	0.01	0.14	0	0	0.03	0.03	0	0.01	0.01		28.1	28.1	< 0.005	< 0.005	0.1	28.5
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		36.7	36.7	< 0.005	0.01	0.09	38.5
Hauling	0.1	0.02	1.52	0.6	0.01	0.02	0.23	0.24	0.02	0.06	0.08		873	873	0.08	0.14	1.77	918
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01		25	25	< 0.005	< 0.005	< 0.005	25.3
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005			36.7	36.7	< 0.005	0.01	< 0.005	38.4
Hauling	0.1	0.02	1.64	0.61	0.01	0.02	0.23	0.24	0.02	0.06	0.08		872	872	0.08	0.14	0.05	917
Average Daily																		
Worker	0.01	0.01	0.01	0.09	0	0	0.02	0.02	0	0.01	0.01		22	22	< 0.005	< 0.005	0.04	22.3
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		31.4	31.4	< 0.005	< 0.005	0.03	32.9
Hauling	0.09	0.02	1.38	0.52	< 0.005	0.01	0.19	0.21	0.01	0.05	0.07		748	748	0.07	0.12	0.66	786
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	3.64	3.64	< 0.005	< 0.005	0.01	3.69
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.21	5.21	< 0.005	< 0.005	0.01	5.45
Hauling	0.02	< 0.005	0.25	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		124	124	0.01	0.02	0.11	130

3.8. Building Construction (2026) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.32	0.3	4.33	11	0.02	0.06		0.06	0.06		0.06		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.32	0.3	4.33	11	0.02	0.06		0.06	0.06		0.06		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.27	0.26	3.71	9.43	0.02	0.05		0.05	0.05		0.05		1544	1544	0.06	0.01		1549

Dust From Material Movement								0.01	0.01		< 0.005	< 0.005													
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																									
Off-Road Ei	0.05	0.05	0.68	1.72	< 0.005		0.01			0.01	0.01		0.01	256	256	0.01	< 0.005								256
Dust From Material Movement								< 0.005	< 0.005		< 0.005	< 0.005													
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																									
Daily, Summer (Max)																									
Worker	0.01	0.01	0.01	0.14	0	0	0.03	0.03	0	0.01	0.01			28.1	28.1	< 0.005	< 0.005	0.1	28.5						
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005			36.7	36.7	< 0.005	0.01	0.09	38.5						
Hauling	0.1	0.02	1.52	0.6	0.01	0.02	0.23	0.24	0.02	0.06	0.08			873	873	0.08	0.14	1.77	918						
Daily, Winter (Max)																									
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01			25	25	< 0.005	< 0.005	< 0.005	25.3						
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005			36.7	36.7	< 0.005	0.01	< 0.005	38.4						
Hauling	0.1	0.02	1.64	0.61	0.01	0.02	0.23	0.24	0.02	0.06	0.08			872	872	0.08	0.14	0.05	917						
Average Daily																									
Worker	0.01	0.01	0.01	0.09	0	0	0.02	0.02	0	0.01	0.01			22	22	< 0.005	< 0.005	0.04	22.3						
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005			31.4	31.4	< 0.005	< 0.005	0.03	32.9						
Hauling	0.09	0.02	1.38	0.52	< 0.005	0.01	0.19	0.21	0.01	0.05	0.07			748	748	0.07	0.12	0.66	786						
Annual																									
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005			3.64	3.64	< 0.005	< 0.005	0.01	3.69						
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			5.21	5.21	< 0.005	< 0.005	0.01	5.45						
Hauling	0.02	< 0.005	0.25	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01			124	124	0.01	0.02	0.11	130						

3.9. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.17	0.97	8.25	9.91	0.02	0.26		0.26	0.24		0.24		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.17	0.97	8.25	9.91	0.02	0.26		0.26	0.24		0.24		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	1	0.83	7.07	8.49	0.02	0.22		0.22	0.21		0.21		1544	1544	0.06	0.01		1549
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.18	0.15	1.29	1.55	< 0.005		0.04			0.04	0.04		256	256	0.01	< 0.005		256
Dust From Material Movement								< 0.005	< 0.005		< 0.005	< 0.005						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	0.01	0.13	0	0	0.03	0.03	0	0.01	0.01		27.6	27.6	< 0.005	< 0.005	0.09	28
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		35.9	35.9	< 0.005	0.01	0.08	37.6
Hauling	0.1	0.02	1.44	0.59	0.01	0.02	0.23	0.24	0.02	0.06	0.08		852	852	0.07	0.14	1.63	896
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01		24.5	24.5	< 0.005	< 0.005	< 0.005	24.9
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		35.9	35.9	< 0.005	0.01	< 0.005	37.5
Hauling	0.1	0.02	1.55	0.59	0.01	0.02	0.23	0.24	0.02	0.06	0.08		851	851	0.07	0.14	0.04	894
Average Daily																		
Worker	0.01	0.01	0.01	0.09	0	0	0.02	0.02	0	0.01	0.01		21.6	21.6	< 0.005	< 0.005	0.03	21.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		30.7	30.7	< 0.005	< 0.005	0.03	32.2
Hauling	0.08	0.02	1.31	0.51	< 0.005	0.01	0.19	0.21	0.01	0.05	0.07		730	730	0.06	0.12	0.6	767
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.57	3.57	< 0.005	< 0.005	0.01	3.62
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.09	5.09	< 0.005	< 0.005	< 0.005	5.32
Hauling	0.02	< 0.005	0.24	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		121	121	0.01	0.02	0.1	127

3.10. Building Construction (2027) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.32	0.3	4.33	11	0.02	0.06		0.06	0.06		0.06		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.32	0.3	4.33	11	0.02	0.06		0.06	0.06		0.06		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.27	0.26	3.71	9.43	0.02	0.05		0.05	0.05		0.05		1544	1544	0.06	0.01		1549
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.05	0.05	0.68	1.72	< 0.005		0.01			0.01	0.01		256	256	0.01	< 0.005		256
Dust From Material Movement								< 0.005	< 0.005		< 0.005	< 0.005						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	0.01	0.13	0	0	0.03	0.03	0	0.01	0.01		27.6	27.6	< 0.005	< 0.005	0.09	28
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		35.9	35.9	< 0.005	0.01	0.08	37.6
Hauling	0.1	0.02	1.44	0.59	0.01	0.02	0.23	0.24	0.02	0.06	0.08		852	852	0.07	0.14	1.63	896
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01		24.5	24.5	< 0.005	< 0.005	< 0.005	24.9
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		35.9	35.9	< 0.005	0.01	< 0.005	37.5
Hauling	0.1	0.02	1.55	0.59	0.01	0.02	0.23	0.24	0.02	0.06	0.08		851	851	0.07	0.14	0.04	894
Average Daily																		
Worker	0.01	0.01	0.01	0.09	0	0	0.02	0.02	0	0.01	0.01		21.6	21.6	< 0.005	< 0.005	0.03	21.9
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		30.7	30.7	< 0.005	< 0.005	0.03	32.2
Hauling	0.08	0.02	1.31	0.51	< 0.005	0.01	0.19	0.21	0.01	0.05	0.07		730	730	0.06	0.12	0.6	767
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.57	3.57	< 0.005	< 0.005	0.01	3.62
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.09	5.09	< 0.005	< 0.005	< 0.005	5.32
Hauling	0.02	< 0.005	0.24	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		121	121	0.01	0.02	0.1	127

3.11. Building Construction (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	1.12	0.93	7.89	9.88	0.02	0.23		0.23	0.21		0.21		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	1.12	0.93	7.89	9.88	0.02	0.23		0.23	0.21		0.21		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.68	0.57	4.82	6.03	0.01	0.14		0.14	0.13		0.13		1100	1100	0.04	0.01		1104
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.12	0.1	0.88	1.1	< 0.005		0.03			0.03	0.02		182	182	0.01	< 0.005		183
Dust From Material Movement								< 0.005	< 0.005		< 0.005	< 0.005						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	0.01	0.13	0	0	0.03	0.03	0	0.01	0.01		27.1	27.1	< 0.005	< 0.005	0.08	27.2
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		34.9	34.9	< 0.005	0.01	0.07	36.6
Hauling	0.09	0.02	1.36	0.57	0.01	0.02	0.23	0.24	0.02	0.06	0.08		828	828	0.07	0.13	1.49	871
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.09	0	0	0.03	0.03	0	0.01	0.01		24	24	< 0.005	< 0.005	< 0.005	24.4
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		34.9	34.9	< 0.005	0.01	< 0.005	36.5
Hauling	0.09	0.02	1.47	0.58	0.01	0.02	0.23	0.24	0.02	0.06	0.08		828	828	0.07	0.13	0.04	869
Average Daily																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15.1	15.1	< 0.005	< 0.005	0.02	15.3
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		21.3	21.3	< 0.005	< 0.005	0.02	22.3
Hauling	0.06	0.01	0.88	0.35	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05		506	506	0.04	0.08	0.39	531
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.49	2.49	< 0.005	< 0.005	< 0.005	2.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.53	3.53	< 0.005	< 0.005	< 0.005	3.7
Hauling	0.01	< 0.005	0.16	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		83.7	83.7	0.01	0.01	0.07	87.9

3.12. Building Construction (2028) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.32	0.3	4.32	11	0.02	0.06		0.06	0.06		0.06		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.32	0.3	4.32	11	0.02	0.06		0.06	0.06		0.06		1801	1801	0.07	0.01		1807
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.19	0.18	2.64	6.71	0.01	0.04		0.04	0.04		0.04		1100	1100	0.04	0.01		1104
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.04	0.03	0.48	1.23	< 0.005		0.01			0.01	0.01		182	182	0.01	< 0.005		183
Dust From Material Movement								< 0.005	< 0.005		< 0.005	< 0.005						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	0.01	0.13	0	0	0.03	0.03	0	0.01	0.01		27.1	27.1	< 0.005	< 0.005	0.08	27.2
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		34.9	34.9	< 0.005	0.01	0.07	36.6
Hauling	0.09	0.02	1.36	0.57	0.01	0.02	0.23	0.24	0.02	0.06	0.08		828	828	0.07	0.13	1.49	871
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.09	0	0	0.03	0.03	0	0.01	0.01		24	24	< 0.005	< 0.005	< 0.005	24.4
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		34.9	34.9	< 0.005	0.01	< 0.005	36.5
Hauling	0.09	0.02	1.47	0.58	0.01	0.02	0.23	0.24	0.02	0.06	0.08		828	828	0.07	0.13	0.04	869
Average Daily																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15.1	15.1	< 0.005	< 0.005	0.02	15.3
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		21.3	21.3	< 0.005	< 0.005	0.02	22.3
Hauling	0.06	0.01	0.88	0.35	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05		506	506	0.04	0.08	0.39	531
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.49	2.49	< 0.005	< 0.005	< 0.005	2.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.53	3.53	< 0.005	< 0.005	< 0.005	3.7

Hauling	0.01	< 0.005	0.16	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	83.7	83.7	0.01	0.01	0.07	87.9

3.13. Paving (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Et	0.51	0.43	4.13	6.47	0.01	0.15		0.15	0.13		0.13		991	991	0.04	0.01		995
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Paving	0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Et	0.51	0.43	4.13	6.47	0.01	0.15		0.15	0.13		0.13		991	991	0.04	0.01		995
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Paving	0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Et	0.06	0.05	0.51	0.8	< 0.005	0.02		0.02	0.02		0.02		122	122	< 0.005	< 0.005		123
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Paving	0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Et	0.01	0.01	0.09	0.15	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20.2	20.2	< 0.005	< 0.005		20.3
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Paving	0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.03	0.62	0	0	0.13	0.13	0	0.03	0.03		134	134	< 0.005	< 0.005	0.41	135
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.09	0.02	1.36	0.57	0.01	0.02	0.23	0.24	0.02	0.06	0.08		829	829	0.07	0.13	1.49	871
Daily, Winter (Max)																		
Worker	0.04	0.04	0.04	0.46	0	0	0.13	0.13	0	0.03	0.03		119	119	< 0.005	0.01	0.01	120
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.09	0.02	1.47	0.58	0.01	0.02	0.23	0.24	0.02	0.06	0.08		829	829	0.07	0.13	0.04	870
Average Daily																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15	15	< 0.005	< 0.005	0.02	15.2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		102	102	0.01	0.02	0.08	107
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.49	2.49	< 0.005	< 0.005	< 0.005	2.52
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16.9	16.9	< 0.005	< 0.005	0.01	17.8

3.14. Paving (2028) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Et	0.15	0.14	1.3	6.89	0.01	0.03		0.03	0.03		0.03		991	991	0.04	0.01		995
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Paving	0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Et	0.15	0.14	1.3	6.89	0.01	0.03		0.03	0.03		0.03		991	991	0.04	0.01		995
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Paving	0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Et	0.02	0.02	0.16	0.85	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		122	122	< 0.005	< 0.005		123
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Paving	0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Et	< 0.005	< 0.005	0.03	0.16	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		20.2	20.2	< 0.005	< 0.005		20.3
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Paving	0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.03	0.62	0	0	0.13	0.13	0	0.03	0.03		134	134	< 0.005	< 0.005	0.41	135
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.09	0.02	1.36	0.57	0.01	0.02	0.23	0.24	0.02	0.06	0.08		829	829	0.07	0.13	1.49	871
Daily, Winter (Max)																		
Worker	0.04	0.04	0.04	0.46	0	0	0.13	0.13	0	0.03	0.03		119	119	< 0.005	0.01	0.01	120
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.09	0.02	1.47	0.58	0.01	0.02	0.23	0.24	0.02	0.06	0.08		829	829	0.07	0.13	0.04	870
Average Daily																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15	15	< 0.005	< 0.005	0.02	15.2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		102	102	0.01	0.02	0.08	107
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.49	2.49	< 0.005	< 0.005	< 0.005	2.52
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16.9	16.9	< 0.005	< 0.005	0.01	17.8

3.15. Architectural Coating (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Et	0.13	0.11	0.81	1.12	< 0.005	0.02		0.02	0.01		0.01		134	134	0.01	< 0.005		134
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Architectural Coatings	1.22																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Et	0.02	0.01	0.1	0.14	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		16.5	16.5	< 0.005	< 0.005		16.5
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Architectural Coatings	0.15																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Et	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.73	2.73	< 0.005	< 0.005		2.73
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Architectural Coatings	0.03																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		4.81	4.81	< 0.005	< 0.005	< 0.005	4.87
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.09	0.02	1.47	0.58	0.01	0.02	0.23	0.24	0.02	0.06	0.08		829	829	0.07	0.13	0.04	870
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.61	0.61	< 0.005	< 0.005	< 0.005	0.62
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		102	102	0.01	0.02	0.08	107
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.1	0.1	< 0.005	< 0.005	< 0.005	0.1
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16.9	16.9	< 0.005	< 0.005	0.01	17.8

3.16. Architectural Coating (2028) - Mitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Et	0.02	0.02	0.65	0.96	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Dust From Material Movement							0.01	0.01		< 0.005	< 0.005							
Architectural Coatings	1.22																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Et	< 0.005	< 0.005	0.08	0.12	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		16.5	16.5	< 0.005	< 0.005		16.5
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Architectural Coatings	0.15																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Et	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.73	2.73	< 0.005	< 0.005		2.73
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Architectural Coatings	0.03																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		4.81	4.81	< 0.005	< 0.005	< 0.005	4.87
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.09	0.02	1.47	0.58	0.01	0.02	0.23	0.24	0.02	0.06	0.08		829	829	0.07	0.13	0.04	870
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.61	0.61	< 0.005	< 0.005	< 0.005	0.62
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.01	< 0.005	0.18	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		102	102	0.01	0.02	0.08	107
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.1	0.1	< 0.005	< 0.005	< 0.005	0.1
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16.9	16.9	< 0.005	< 0.005	0.01	17.8

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		

Total

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	########	########	6	9	
Grading	Grading	########	########	6	18	
Building Co	Building Co	########	########	6	901	
Paving	Paving	########	########	6	45	
Architectur	Architectur	########	########	6	45	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Site Prepar	Graders	Diesel	Average	1	8	148	0.41
Site Prepar	Rubber Tire	Diesel	Average	1	7	367	0.4
Site Prepar	Tractors/Lo	Diesel	Average	1	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Tractors/Lo	Diesel	Average	2	7	84	0.37
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Cranes	Diesel	Average	1	6	367	0.29
Building Co	Forklifts	Diesel	Average	1	6	82	0.2
Building Co	Generator :	Diesel	Average	1	8	14	0.74
Building Co	Tractors/Lo	Diesel	Average	1	6	84	0.37
Building Co	Welders	Diesel	Average	3	8	46	0.45
Paving	Tractors/Lo	Diesel	Average	1	8	84	0.37
Paving	Pavers	Diesel	Average	1	6	81	0.42
Paving	Paving Equ	Diesel	Average	1	8	89	0.36
Paving	Rollers	Diesel	Average	1	7	36	0.38
Paving	Cement an	Diesel	Average	1	6	10	0.56
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.2.2. Mitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Site Prepar	Graders	Diesel	Tier 4 Final	1	8	148	0.41
Site Prepar	Rubber Tire	Diesel	Tier 4 Final	1	7	367	0.4
Site Prepar	Tractors/Lo	Diesel	Tier 4 Final	1	8	84	0.37
Grading	Graders	Diesel	Tier 4 Final	1	8	148	0.41
Grading	Tractors/Lo	Diesel	Tier 4 Final	2	7	84	0.37
Grading	Rubber Tire	Diesel	Tier 4 Final	1	8	367	0.4
Building Co	Cranes	Diesel	Tier 4 Final	1	6	367	0.29
Building Co	Forklifts	Diesel	Tier 4 Final	1	6	82	0.2
Building Co	Generator :	Diesel	Average	1	8	14	0.74
Building Co	Tractors/Lo	Diesel	Tier 4 Final	1	6	84	0.37
Building Co	Welders	Diesel	Tier 4 Final	3	8	46	0.45
Paving	Tractors/Lo	Diesel	Tier 4 Final	1	8	84	0.37
Paving	Pavers	Diesel	Tier 4 Final	1	6	81	0.42
Paving	Paving Equ	Diesel	Tier 4 Final	1	8	89	0.36
Paving	Rollers	Diesel	Tier 4 Final	1	7	36	0.38
Paving	Cement an	Diesel	Average	1	6	10	0.56
Architectur	Air Compre	Diesel	Tier 4 Final	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	7.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	12.1	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	10	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	12.1	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	2.53	14.3	LDA,LDT1,LDT2
Building Co	Vendor	1.29	8.8	HHDT,MHDT
Building Co	Hauling	12	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	12.5	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	12	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	0.51	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	12	20	HHDT
Architectur	Onsite truck			HHDT

5.3.2. Mitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	7.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	12.1	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	10	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	12.1	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	2.53	14.3	LDA,LDT1,LDT2
Building Co	Vendor	1.29	8.8	HHDT,MHDT
Building Co	Hauling	12	20	HHDT
Building Co	Onsite truck			HHDT

Paving

Paving	Worker	12.5	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	12	20	HHDT
Paving	Onsite truck			HHDT

Architectural Coating

Architectur	Worker	0.51	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	12	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles
5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Reds	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectur	0	0	11850	3950	

5.6. Dust Mitigation
5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material Di	Acres Paved (acres)
Site Preparation		866	8.44	0	
Grading		1733	18	0	
Building Construction		86737	1.31	0	
Paving		4332	1.31	0	0
Architectural Coating		4332	1.31	0	

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reds	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Off	0	0
City Park	0	0
Medical Off	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2025	0	295	0.01	< 0.005
2026	0	279	0.01	< 0.005
2027	0	267	0.01	< 0.005
2028	0	253	0.01	< 0.005

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1.2. Mitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated

Biomass Co	Initial Acre	Final Acres

5.18.1.2. Mitigated

Biomass Co	Initial Acre	Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

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

Climate Ha	Result for P	Unit
Temperatu	19.8	annual days of extreme heat
Extreme Pr	5	annual days with precipitation above 20 mm
Sea Level R	0	meters of inundation depth
Wildfire	0	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity	Adaptive C	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Sit	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Wast	64.4
Sensitive Population	
Asthma	24.7
Cardio-vasc	32
Low Birth V	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployr	7.77

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 Pov	60.34903
Employed	0.526113
Median HI	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent hc	66.67522
Voting	91.95432
Neighborhood	
Alcohol ava	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499

Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc rer	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46
Healthy Pla	46
Project Loc	No
Project Loc	No
Project Loc	No

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

7.4. Health & Equity Measures

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Point Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
	6 days a week, winter 2025 to beginning 2029 added mitigation measure of adding tier 4 final engines to equipmen t with over 50 horsepow
Constructicer	
Constructic	Grading for entire project so would be spread out through entire phase based on timing of each phase

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 1C
Constructio	1/1/2029
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	3
Precipitatio	36.6
Location	38.378268508056266, -121.38767164800089
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
City Park	1.17	Acre	1.17	0	51000	51000		Savanna North
City Park	0.55	Acre	0.55	0	24000	24000		Wild Dog
City Park	0.56	Acre	0.56	0	24500	24500		Hippo
City Park	0.99	Acre	0.99	0	43000	43000		African Ape
Medical Off	24.3	1000sqft	0.56	24300	24300			Animal Care Quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.19	0.99	8.76	13.3	0.02	0.28	0.2	0.39	0.26	0.05	0.28		2583	2583	0.1	0.04	0.42	2596
Daily, Winter (Max)																		
Unmit.	3.59	3.02	26	28.7	0.05	1.09	19.8	20.9	1	10.1	11.1		5459	5459	0.22	0.05	0.01	5480
Average Daily (Max)																		
Unmit.	1.23	1.03	8.99	12.8	0.02	0.31	1.98	2.29	0.29	0.97	1.26		2438	2438	0.1	0.03	0.16	2450
Annual (Max)																		
Unmit.	0.22	0.19	1.64	2.33	< 0.005	0.06	0.36	0.42	0.05	0.18	0.23		404	404	0.02	0.01	0.03	406

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2029	1.19	0.99	8.76	13.3	0.02	0.28	0.11	0.39	0.26	0.03	0.28		2583	2583	0.1	0.04	0.42	2596
2030	1.16	0.97	8.56	13.3	0.02	0.26	0.11	0.37	0.24	0.03	0.27		2578	2578	0.1	0.04	0.37	2591
2031	1.13	0.94	8.27	13.2	0.02	0.24	0.11	0.35	0.22	0.03	0.25		2573	2573	0.1	0.03	0.32	2586
2032	1.1	0.92	8.01	13.2	0.02	0.22	0.2	0.37	0.21	0.05	0.23		2568	2568	0.1	0.03	0.41	2581
Daily - Winter (Max)																		
2029	3.59	3.02	26	28.7	0.05	1.09	19.8	20.9	1	10.1	11.1		5459	5459	0.22	0.05	0.01	5480
2030	1.16	0.97	8.57	13.2	0.02	0.26	0.11	0.37	0.24	0.03	0.27		2569	2569	0.1	0.04	0.01	2583
2031	1.13	0.94	8.28	13.1	0.02	0.24	0.11	0.35	0.22	0.03	0.25		2564	2564	0.1	0.04	0.01	2578
2032	1.1	0.92	8.03	13.1	0.02	0.22	0.11	0.33	0.21	0.03	0.23		2559	2559	0.1	0.03	0.01	2572
Average Daily																		
2029	1.23	1.03	8.99	12.8	0.02	0.31	1.98	2.29	0.29	0.97	1.26		2438	2438	0.1	0.03	0.16	2450
2030	0.99	0.83	7.34	11.3	0.02	0.22	0.09	0.32	0.21	0.02	0.23		2204	2204	0.09	0.03	0.14	2215
2031	0.97	0.81	7.1	11.3	0.02	0.21	0.09	0.3	0.19	0.02	0.21		2199	2199	0.09	0.03	0.12	2211
2032	0.65	0.54	4.71	7.77	0.01	0.13	0.09	0.22	0.12	0.02	0.14		1437	1437	0.06	0.02	0.09	1444
Annual																		
2029	0.22	0.19	1.64	2.33	< 0.005	0.06	0.36	0.42	0.05	0.18	0.23		404	404	0.02	0.01	0.03	406
2030	0.18	0.15	1.34	2.07	< 0.005	0.04	0.02	0.06	0.04	< 0.005	0.04		365	365	0.01	0.01	0.02	367
2031	0.18	0.15	1.3	2.06	< 0.005	0.04	0.02	0.05	0.04	< 0.005	0.04		364	364	0.01	< 0.005	0.02	366
2032	0.12	0.1	0.86	1.42	< 0.005	0.02	0.02	0.04	0.02	< 0.005	0.03		238	238	0.01	< 0.005	0.02	239

3. Construction Emissions Details

3.1. Site Preparation (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	3.53	2.97	25.9	28.1	0.05	1.09		1.09	1		1		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.21	0.18	1.56	1.69	< 0.005	0.07		0.07	0.06		0.06		319	319	0.01	< 0.005		320
Dust From Material Movement							1.18	1.18		0.61	0.61							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.04	0.03	0.29	0.31	< 0.005	0.01		0.01	0.01		0.01		52.8	52.8	< 0.005	< 0.005		53
Dust From Material Movement							0.22	0.22		0.11	0.11							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.06	0.05	0.05	0.6	0	0	0.18	0.18	0	0.04	0.04		163	163	< 0.005	0.01	0.01	166
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		10.1	10.1	< 0.005	< 0.005	0.01	10.2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.67	1.67	< 0.005	< 0.005	< 0.005	1.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	1.8	1.52	13	17.2	0.03	0.53		0.53	0.49		0.49		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.18	0.15	1.28	1.7	< 0.005	0.05		0.05	0.05		0.05		292	292	0.01	< 0.005		293
Dust From Material Movement							0.7	0.7		0.34	0.34							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.03	0.03	0.23	0.31	< 0.005	0.01		0.01	0.01		0.01		48.3	48.3	< 0.005	< 0.005		48.5
Dust From Material Movement							0.13	0.13		0.06	0.06							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.05	0.04	0.04	0.52	0	0	0.15	0.15	0	0.04	0.04		140	140	< 0.005	0.01	0.01	142
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.35	2.35	< 0.005	< 0.005	< 0.005	2.38
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.81	0.68	6.01	9.03	0.02	0.19		0.19	0.18		0.18		1677	1677	0.07	0.01		1683
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.15	0.12	1.1	1.65	< 0.005	0.04		0.04	0.03		0.03		278	278	0.01	< 0.005		279
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.02	0.37	0	0	0.08	0.08	0	0.02	0.02		81.7	81.7	< 0.005	< 0.005	0.23	82.2
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		104	104	0.01	0.02	0.19	109
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.02	0.02	0.27	0	0	0.08	0.08	0	0.02	0.02		72.6	72.6	< 0.005	< 0.005	0.01	73.6
Vendor	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		104	104	0.01	0.02	< 0.005	109
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.19	0	0	0.05	0.05	0	0.01	0.01		52.2	52.2	< 0.005	< 0.005	0.07	52.9
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		72.9	72.9	< 0.005	0.01	0.06	76.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		8.64	8.64	< 0.005	< 0.005	0.01	8.75
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		12.1	12.1	< 0.005	< 0.005	0.01	12.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		

Off-Road Et	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Et	0.96	0.81	7.19	11	0.02	0.22		0.22	0.21		0.21	2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Et	0.18	0.15	1.31	2.02	< 0.005	0.04		0.04	0.04		0.04	340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.02	0.01	0.35	0	0	0.08	0.08	0	0.02	0.02	80.3	80.3	< 0.005	< 0.005	0.2	80.7
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	101	101	0.01	0.02	0.16	106
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.25	0	0	0.08	0.08	0	0.02	0.02	71.4	71.4	< 0.005	< 0.005	0.01	72.3
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	101	101	0.01	0.02	< 0.005	105
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.22	0	0	0.07	0.07	0	0.02	0.02	62.8	62.8	< 0.005	< 0.005	0.08	63
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	86.3	86.3	0.01	0.01	0.06	90.5
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005	10.4	10.4	< 0.005	< 0.005	0.01	10.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	14.3	14.3	< 0.005	< 0.005	0.01	15
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.9. Building Construction (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Et	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Et	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Et	0.94	0.79	6.96	11	0.02	0.21		0.21	0.19		0.19		2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Et	0.17	0.14	1.27	2.01	< 0.005	0.04		0.04	0.04		0.04		340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.01	0.33	0	0	0.08	0.08	0	0.02	0.02		79	79	< 0.005	< 0.005	0.18	79.4
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		97	97	0.01	0.01	0.14	102
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.24	0	0	0.08	0.08	0	0.02	0.02		70.2	70.2	< 0.005	< 0.005	< 0.005	71.2
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		97	97	0.01	0.01	< 0.005	102
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.21	0	0	0.07	0.07	0	0.02	0.02		61.8	61.8	< 0.005	< 0.005	0.07	62
Vendor	0.01	< 0.005	0.13	0.05	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01		83.2	83.2	0.01	0.01	0.05	87.1
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		10.2	10.2	< 0.005	< 0.005	0.01	10.3
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		13.8	13.8	< 0.005	< 0.005	0.01	14.4
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Et	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Et	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Et	0.44	0.37	3.27	5.32	0.01	0.09		0.09	0.09		0.09		996	996	0.04	0.01		1000
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Et	0.08	0.07	0.6	0.97	< 0.005	0.02		0.02	0.02		0.02		165	165	0.01	< 0.005		166
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.01	0.31	0	0	0.08	0.08	0	0.02	0.02		77.8	77.8	< 0.005	< 0.005	0.16	78.2
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		93.4	93.4	0.01	0.01	0.12	97.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.23	0	0	0.08	0.08	0	0.02	0.02		69.2	69.2	< 0.005	< 0.005	< 0.005	69.4
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		93.4	93.4	0.01	0.01	< 0.005	97.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01		29.5	29.5	< 0.005	< 0.005	0.03	29.6
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		38.8	38.8	< 0.005	0.01	0.02	40.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		4.88	4.88	< 0.005	< 0.005	< 0.005	4.9
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.43	6.43	< 0.005	< 0.005	< 0.005	6.73
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Paving (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Et	0.68	0.57	5.4	8.77	0.01	0.17		0.17	0.15		0.15		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road Et	0.15	0.13	1.2	1.95	< 0.005	0.04		0.04	0.03		0.03		300	300	0.01	< 0.005		301
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Et	0.03	0.02	0.22	0.35	< 0.005	0.01		0.01	0.01		0.01		49.6	49.6	< 0.005	< 0.005		49.8
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.06	0.03	0.8	0	0	0.2	0.2	0	0.05	0.05		200	200	< 0.005	< 0.005	0.41	201
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.01	0.01	0.01	0.13	0	0	0.04	0.04	0	0.01	0.01		40.5	40.5	< 0.005	< 0.005	0.04	40.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.71	6.71	< 0.005	< 0.005	0.01	6.73
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.15. Architectural Coating (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Et	0.11	0.09	0.77	1.1	< 0.005	0.01		0.01	0.01		0.01		134	134	0.01	< 0.005		134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Et	0.11	0.09	0.77	1.1	< 0.005	0.01		0.01	0.01		0.01		134	134	0.01	< 0.005		134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Et	0.02	0.02	0.17	0.24	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		29.6	29.6	< 0.005	< 0.005		29.7
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Et	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		4.91	4.91	< 0.005	< 0.005		4.92
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	< 0.005	< 0.005	< 0.005	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		15.6	15.6	< 0.005	< 0.005	0.03	15.6
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.02	0.02	0	< 0.005	< 0.005		13.8	13.8	< 0.005	< 0.005	< 0.005	13.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.15	3.15	< 0.005	< 0.005	< 0.005	3.16
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.52	0.52	< 0.005	< 0.005	< 0.005	0.52
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		

Total
Daily, Winter (Max)
Total
Annual
Total

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

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

Annual
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal

5. Activity Data
5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2029	########	6	22	
Grading	Grading	########	3/8/2029	6	36	
Building Co	Building Co	3/9/2029	########	6	1033	
Paving	Paving	########	########	6	81	
Architectur	Architectur	########	########	6	81	

5.2. Off-Road Equipment
5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lo	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lo	Diesel	Average	3	8	84	0.37
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator :	Diesel	Average	1	8	14	0.74
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lo	Diesel	Average	3	7	84	0.37
Paving	Tractors/Lo	Diesel	Average	1	8	84	0.37
Paving	Cement an	Diesel	Average	2	6	10	0.56
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles
5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	7.78	14.3	LDA,LDT1,LDT2
Building Co	Vendor	3.98	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	20	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	1.56	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles
5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Reds	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)

5.6. Dust Mitigation
5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material Di	Acres Paved (acres)
Site Preparation			33	0	
Grading			36	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reds	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Off	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2029	0	375	0.01	< 0.005
2030	0	375	0.01	< 0.005
2031	0	375	0.01	< 0.005
2032	0	375	0.01	< 0.005

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated

Biomass Co	Initial Acre	Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated

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

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

Climate Ha	Result for P	Unit
Temperatu	19.8	annual days of extreme heat
Extreme Pr	5	annual days with precipitation above 20 mm
Sea Level R	0	meters of inundation depth
Wildfire	0	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 Ha	Exposure S	Sensitivity '	Adaptive Ca	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity '	Adaptive Ca	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3

Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Sit	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Wast	64.4
Sensitive Population	
Asthma	24.7
Cardio-vasc	32
Low Birth W	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployr	7.77

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 Pove	60.34903
Employed	0.526113
Median HI	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent ho	66.67522
Voting	91.95432
Neighborhood	
Alcohol ava	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc ren	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured adu	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expecti	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46
Healthy Pla	46
Project Loc	No
Project Loc	No
Project Loc	No

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

7.4. Health & Equity Measures

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Point	Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Constructio	Project description and 6 days a week

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 2
Constructio	1/1/2033
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	3
Precipitatio	36.6
Location	38.37955344542385, -121.38815261874643
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
Hospital	11	1000sqft	0.25	11000				Rehab and rescue facility
Fast Food R	0.5	1000sqft	0.01	500				food kiosk
Health Club	1.8	1000sqft	0.04	1800				restrooms
Hotel	10	Room	0.33	2000				bear den suite
General Off	6.4	1000sqft	0.15	6400				deserts interior exhibits
Recreationa	18.6	1000sqft	0	0				freshwater interior exhibits
Day-Care C	10	1000sqft	0.23	10000				educational building
City Park	0.01	Acre	0.01	0	400	400		animal encounter space
City Park	0.05	Acre	0.05	0	2100	2100		beaver
City Park	0.29	Acre	0.29	0	12700	12700		big horn sheep
City Park	0.05	Acre	0.05	0	2100	2100		bobcat
General Off	2	1000sqft	0.05	2000				California Deserts Interior
City Park	0.09	Acre	0.09	0	4000	4000		eagle and fish
City Park	0.96	Acre	0.96	0	42000	42000		elk meadow
City Park	0.83	Acre	0.83	0	36000	36000		grizzly bear
City Park	0.19	Acre	0.19	0	8300	8300		river otter
General Off	0.5	1000sqft	0.01	500				California sierra nevada mountains exhibit
Medical Off	9.8	1000sqft	0.22	9800				animal care quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.11	0.93	7.91	13.5	0.02	0.2	0.21	0.41	0.19	0.05	0.24		2713	2713	0.11	0.05	0.46	2730
Daily, Winter (Max)																		
Unmit.	3.17	7.75	21.2	24.9	0.05	0.86	19.8	20.7	0.79	10.1	10.9		5450	5450	0.22	0.05	0.01	5468
Average Daily (Max)																		
Unmit.	1.03	1.49	7.34	11.9	0.02	0.21	1.11	1.32	0.19	0.52	0.7		2415	2415	0.1	0.04	0.16	2429
Annual (Max)																		
Unmit.	0.19	0.27	1.34	2.18	< 0.005	0.04	0.2	0.24	0.03	0.09	0.13		400	400	0.02	0.01	0.03	402

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2033	1.11	0.93	7.91	13.5	0.02	0.2	0.21	0.41	0.19	0.05	0.24		2713	2713	0.11	0.05	0.46	2730
2034	1.09	0.91	7.75	13.4	0.02	0.19	0.21	0.4	0.18	0.05	0.23		2705	2705	0.11	0.04	0.39	2721
Daily - Winter (Max)																		
2033	3.17	2.67	21.2	24.9	0.05	0.86	19.8	20.7	0.79	10.1	10.9		5450	5450	0.22	0.05	0.01	5468
2034	1.08	7.75	7.77	13.3	0.02	0.19	0.21	0.4	0.18	0.05	0.23		2688	2688	0.11	0.04	0.01	2704
Average Daily																		
2033	1.03	0.87	7.34	11.9	0.02	0.21	1.11	1.32	0.19	0.52	0.7		2415	2415	0.1	0.04	0.16	2429
2034	0.78	1.49	5.61	9.61	0.02	0.14	0.16	0.3	0.13	0.04	0.17		1898	1898	0.07	0.03	0.13	1909
Annual																		
2033	0.19	0.16	1.34	2.18	< 0.005	0.04	0.2	0.24	0.03	0.09	0.13		400	400	0.02	0.01	0.03	402
2034	0.14	0.27	1.02	1.75	< 0.005	0.03	0.03	0.05	0.02	0.01	0.03		314	314	0.01	< 0.005	0.02	316

3. Construction Emissions Details

3.1. Site Preparation (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	3.13	2.63	21.2	24.4	0.05	0.86		0.86	0.79		0.79		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.09	0.08	0.64	0.73	< 0.005	0.03		0.03	0.02		0.02		160	160	0.01	< 0.005		160
Dust From Material Movement							0.59	0.59		0.3	0.3							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.02	0.01	0.12	0.13	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		26.4	26.4	< 0.005	< 0.005		26.5
Dust From Material Movement							0.11	0.11		0.06	0.06							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.49	0	0	0.18	0.18	0	0.04	0.04		154	154	< 0.005	< 0.005	0.01	154
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		4.75	4.75	< 0.005	< 0.005	< 0.005	4.76
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.79	0.79	< 0.005	< 0.005	< 0.005	0.79
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	1.59	1.34	10.9	16	0.03	0.42		0.42	0.38		0.38		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.08	0.07	0.54	0.79	< 0.005	0.02		0.02	0.02		0.02		146	146	0.01	< 0.005		146
Dust From Material Movement							0.35	0.35		0.17	0.17							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.01	0.01	0.1	0.14	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		24.2	24.2	< 0.005	< 0.005		24.2
Dust From Material Movement							0.06	0.06		0.03	0.03							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.42	0	0	0.15	0.15	0	0.04	0.04		132	132	< 0.005	< 0.005	0.01	132
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.66	6.66	< 0.005	< 0.005	0.01	6.68
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.1	1.1	< 0.005	< 0.005	< 0.005	1.11
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.81	0.68	5.96	9.93	0.02	0.16		0.16	0.15		0.15		1863	1863	0.08	0.02		1869
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.15	0.12	1.09	1.81	< 0.005	0.03		0.03	0.03		0.03		308	308	0.01	< 0.005		310
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.02	0.59	0	0	0.16	0.16	0	0.04	0.04		153	153	< 0.005	< 0.005	0.28	154
Vendor	0.01	0.01	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		163	163	0.01	0.03	0.18	171
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.43	0	0	0.16	0.16	0	0.04	0.04		136	136	< 0.005	< 0.005	0.01	136
Vendor	0.01	0.01	0.24	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		163	163	0.01	0.03	< 0.005	171
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.03	0.03	0.02	0.35	0	0	0.12	0.12	0	0.03	0.03		109	109	< 0.005	< 0.005	0.09	109
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		127	127	0.01	0.02	0.06	133
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	< 0.005	0.06	0	0	0.02	0.02	0	0.01	0.01		18	18	< 0.005	< 0.005	0.02	18
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		21	21	< 0.005	< 0.005	0.01	22
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e

Onsite
Daily, Summer (Max)

Off-Road Eq	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily, Winter (Max)

Off-Road Eq	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18	2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Daily

Off-Road Eq	0.66	0.55	4.79	8.13	0.01	0.12		0.12	0.11		0.11	1525	1525	0.06	0.01		1531
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Annual

Off-Road Eq	0.12	0.1	0.87	1.48	< 0.005	0.02		0.02	0.02		0.02	253	253	0.01	< 0.005		253
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Offsite
Daily, Summer (Max)

Worker	0.04	0.04	0.02	0.57	0	0	0.16	0.16	0	0.04	0.04	151	151	< 0.005	< 0.005	0.24	152
Vendor	0.01	< 0.005	0.21	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	157	157	0.01	0.02	0.15	164
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily, Winter (Max)

Worker	0.04	0.04	0.03	0.41	0	0	0.16	0.16	0	0.04	0.04	134	134	< 0.005	< 0.005	0.01	135
Vendor	0.01	< 0.005	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	157	157	0.01	0.02	< 0.005	164
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Daily

Worker	0.02	0.02	0.01	0.27	0	0	0.1	0.1	0	0.02	0.02	87.7	87.7	< 0.005	< 0.005	0.07	88
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	99.8	99.8	< 0.005	0.02	0.04	104
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Annual

Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.02	0.02	0	< 0.005	< 0.005	14.5	14.5	< 0.005	< 0.005	0.01	14.6
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	16.5	16.5	< 0.005	< 0.005	0.01	17.3
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.9. Paving (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.65	0.54	5.29	8.74	0.01	0.15		0.15	0.14		0.14		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.65	0.54	5.29	8.74	0.01	0.15		0.15	0.14		0.14		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.07	0.06	0.58	0.96	< 0.005	0.02		0.02	0.02		0.02		148	148	0.01	< 0.005		148
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.01	0.01	0.11	0.17	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		24.5	24.5	< 0.005	< 0.005		24.6
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.05	0.03	0.73	0	0	0.2	0.2	0	0.05	0.05		195	195	< 0.005	< 0.005	0.31	196
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.05	0.04	0.54	0	0	0.2	0.2	0	0.05	0.05		173	173	< 0.005	< 0.005	0.01	174
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	< 0.005	0.06	0	0	0.02	0.02	0	0.01	0.01		19.5	19.5	< 0.005	< 0.005	0.01	19.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.22	3.22	< 0.005	< 0.005	< 0.005	3.23
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Architectural Coating (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01		134	134	0.01	< 0.005		134
Architectural Coatings		7.65																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.01	0.01	0.08	0.12	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		14.6	14.6	< 0.005	< 0.005		14.7
Architectural Coatings		0.84																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.42	2.42	< 0.005	< 0.005		2.43
Architectural Coatings		0.15																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.08	0	0	0.03	0.03	0	0.01	0.01		26.9	26.9	< 0.005	< 0.005	< 0.005	26.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.02	3.02	< 0.005	< 0.005	< 0.005	3.03
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.5	0.5	< 0.005	< 0.005	< 0.005	0.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2033	########	6	11	
Grading	Grading	########	2/3/2033	6	18	
Building Co	Building Co	2/4/2033	########	6	516	
Paving	Paving	########	########	6	40	
Architectur	Architectur	########	########	6	40	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepow	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lo	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lo	Diesel	Average	3	8	84	0.37
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator	Diesel	Average	1	8	14	0.74
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lo	Diesel	Average	3	7	84	0.37
Paving	Tractors/Lo	Diesel	Average	1	8	84	0.37

Paving	Cement an	Diesel	Average	2	6	10	0.56
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles
5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	15.5	14.3	LDA,LDT1,LDT2
Building Co	Vendor	7.21	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	20	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	3.1	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles
5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Reds	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectur	0	0	66000	22000	

5.6. Dust Mitigation
5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material Di	Acres Paved (acres)
Site Preparation			16.5	0	
Grading			18	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reds	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
Hospital	0	0
Fast Food R	0	0
Health Clut	0	0
Hotel	0	0
General Off	0	0
Recreationa	0	0
Day-Care C	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
General Off	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
General Off	0	0
Medical Off	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2033	0	178	0.01	< 0.005
2034	0	163	0.01	< 0.005

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated

Biomass Co	Initial Acre	Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated

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

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

Climate Ha	Result for P	Unit
Temperatu	19.8	annual days of extreme heat
Extreme Pr	5	annual days with precipitation above 20 mm
Sea Level R	0	meters of inundation depth
Wildfire	0	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 Ha	Exposure S	Sensitivity '	Adaptive C	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity '	Adaptive C	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Sit	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Waste	64.4
Sensitive Population	
Asthma	24.7
Cardio-vasc	32
Low Birth V	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployr	7.77

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 Pove	60.34903
Employed	0.526113
Median HI	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent ho	66.67522
Voting	91.95432
Neighborhood	
Alcohol ava	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc ren	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46
Healthy Pla	46
Project Loc	No
Project Loc	No
Project Loc	No

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

7.4. Health & Equity Measures

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Point	Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	Project description
Constructio	6 days a week, schedule timing from PD
Operations	got rid of NaN

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 3
Constructic	1/1/2035
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.380789679189576, -121.38934529264463
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
General Off	10.6	1000sqft	0.24	10600	10600			

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	0.49	0.41	3.52	6.93	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1373	1373	0.06	0.02	0.12	1380
Daily, Winter (Max)																		
Unmit.	1.43	1.2	9.31	15.3	0.03	0.33	5.43	5.76	0.3	2.6	2.9		3148	3148	0.13	0.03	< 0.005	3160
Average Daily (Max)																		
Unmit.	0.44	0.47	3.13	5.99	0.01	0.09	0.47	0.56	0.08	0.21	0.29		1187	1187	0.05	0.01	0.03	1192
Annual (Max)																		
Unmit.	0.08	0.09	0.57	1.09	< 0.005	0.02	0.09	0.1	0.01	0.04	0.05		196	196	0.01	< 0.005	< 0.005	197

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2035	0.48	0.4	3.47	6.93	0.01	0.09	0.05	0.13	0.08	0.01	0.09		1373	1373	0.06	0.02	0.08	1380
2036	0.46	0.39	3.34	6.87	0.01	0.08	0.05	0.13	0.07	0.01	0.08		1372	1372	0.06	0.02	0.06	1378
2037	0.45	0.38	3.26	6.81	0.01	0.07	0.05	0.12	0.07	0.01	0.08		1370	1370	0.05	0.02	0.05	1376
2038	0.45	0.38	3.2	6.79	0.01	0.07	0.05	0.12	0.06	0.01	0.08		1369	1369	0.05	0.02	0.04	1375
2039	0.49	0.41	3.52	6.75	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1368	1368	0.05	0.02	0.12	1374
Daily - Winter (Max)																		
2035	1.43	1.2	9.31	15.3	0.03	0.33	5.43	5.76	0.3	2.6	2.9		3148	3148	0.13	0.03	< 0.005	3160
2036	0.46	0.39	3.34	6.84	0.01	0.08	0.05	0.13	0.07	0.01	0.08		1368	1368	0.06	0.02	< 0.005	1374
2037	0.45	0.38	3.26	6.78	0.01	0.07	0.05	0.12	0.07	0.01	0.08		1367	1367	0.05	0.02	< 0.005	1373
2038	0.45	0.38	3.21	6.76	0.01	0.07	0.05	0.12	0.06	0.01	0.08		1365	1365	0.05	0.02	< 0.005	1371
2039	0.49	1.16	3.52	6.72	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1364	1364	0.05	0.02	< 0.005	1370
Average Daily																		
2035	0.44	0.37	3.13	5.99	0.01	0.09	0.47	0.56	0.08	0.21	0.29		1187	1187	0.05	0.01	0.03	1192
2036	0.4	0.33	2.87	5.88	0.01	0.07	0.04	0.11	0.06	0.01	0.07		1176	1176	0.05	0.01	0.02	1182
2037	0.39	0.33	2.8	5.81	0.01	0.06	0.04	0.1	0.06	0.01	0.07		1172	1172	0.05	0.01	0.02	1177
2038	0.39	0.32	2.75	5.8	0.01	0.06	0.04	0.1	0.06	0.01	0.06		1171	1171	0.05	0.01	0.02	1176
2039	0.33	0.47	2.31	4.5	0.01	0.05	0.06	0.11	0.05	0.01	0.06		864	864	0.03	0.01	0.02	867
Annual																		
2035	0.08	0.07	0.57	1.09	< 0.005	0.02	0.09	0.1	0.01	0.04	0.05		196	196	0.01	< 0.005	< 0.005	197
2036	0.07	0.06	0.52	1.07	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		195	195	0.01	< 0.005	< 0.005	196
2037	0.07	0.06	0.51	1.06	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		194	194	0.01	< 0.005	< 0.005	195
2038	0.07	0.06	0.5	1.06	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		194	194	0.01	< 0.005	< 0.005	195
2039	0.06	0.09	0.42	0.82	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		143	143	0.01	< 0.005	< 0.005	144

3. Construction Emissions Details

3.1. Demolition (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Ei	0.42	0.35	3.27	5.3	0.01	0.06		0.06	0.05		0.05		851	851	0.03	0.01		854
Demolition							0	0		0	0							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.01	0.01	0.06	0.1	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		16.3	16.3	< 0.005	< 0.005		16.4
Demolition							0	0		0	0							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.7	2.7	< 0.005	< 0.005		2.71
Demolition							0	0		0	0							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.25	0	0	0.1	0.1	0	0.02	0.02		85.6	85.6	< 0.005	< 0.005	< 0.005	85.8
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005		< 0.005	< 0.005		1.68	1.68	< 0.005	< 0.005	< 0.005	1.69
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		< 0.005	< 0.005		0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Site Preparation (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Ei	0.38	0.32	2.37	5.55	0.01	0.09		0.09	0.09		0.09		858	858	0.03	0.01		861
Dust From Material Movement							0.53	0.53		0.06	0.06							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.01	0.01	0.09	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		32.9	32.9	< 0.005	< 0.005		33
Dust From Material Movement							0.02	0.02		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		5.45	5.45	< 0.005	< 0.005		5.47
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.13	0	0	0.05	0.05	0	0.01	0.01		42.8	42.8	< 0.005	< 0.005	< 0.005	42.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005		< 0.005	< 0.005		1.68	1.68	< 0.005	< 0.005	< 0.005	1.69
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		< 0.005	< 0.005		0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Grading (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Ei	0.93	0.78	5.83	8.21	0.02	0.24		0.24	0.22		0.22		1714	1714	0.07	0.01		1720
Dust From Material Movement							5.31	5.31		2.57	2.57							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.07	0.06	0.45	0.63	< 0.005	0.02		0.02	0.02		0.02		131	131	0.01	< 0.005		132
Dust From Material Movement							0.41	0.41		0.2	0.2							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.01	0.01	0.08	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		21.8	21.8	< 0.005	< 0.005		21.8
Dust From Material Movement							0.07	0.07		0.04	0.04							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.02	0.02	0.01	0.19	0	0	0.08	0.08	0	0.02	0.02		64.2	64.2	< 0.005	< 0.005	< 0.005	64.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		5.05	5.05	< 0.005	< 0.005	< 0.005	5.07
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		< 0.005	< 0.005		0.84	0.84	< 0.005	< 0.005	< 0.005	0.84
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.46	0.39	3.41	6.78	0.01	0.09		0.09	0.08		0.08		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.46	0.39	3.41	6.78	0.01	0.09		0.09	0.08		0.08		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

Average Daily																									
Off-Road Eq	0.34	0.28	2.48	4.94	0.01	0.06		0.06	0.06		0.06		949	949	0.04	0.01		953							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0							
Annual																									
Off-Road Eq	0.06	0.05	0.45	0.9	< 0.005	0.01		0.01	0.01		0.01		157	157	0.01	< 0.005		158							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0							
Offsite																									
Daily, Summer (Max)																									
Worker	0.01	0.01	< 0.005	0.12	0	0	0.03	0.03	0	0.01	0.01		32.7	32.7	< 0.005	< 0.005	0.05	32.8							
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		36.4	36.4	< 0.005	0.01	0.03	38.2							
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0							
Daily, Winter (Max)																									
Worker	0.01	0.01	0.01	0.09	0	0	0.03	0.03	0	0.01	0.01		29	29	< 0.005	< 0.005	< 0.005	29.1							
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		36.4	36.4	< 0.005	0.01	< 0.005	38.2							
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0							
Average Daily																									
Worker	0.01	0.01	< 0.005	0.06	0	0	0.02	0.02	0	0.01	0.01		21.7	21.7	< 0.005	< 0.005	0.01	21.7							
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		26.5	26.5	< 0.005	< 0.005	0.01	27.8							
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0							
Annual																									
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.59	3.59	< 0.005	< 0.005	< 0.005	3.6							
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		4.39	4.39	< 0.005	< 0.005	< 0.005	4.6							
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0							

3.9. Building Construction (2036) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.45	0.38	3.29	6.73	0.01	0.08		0.08	0.07		0.07		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.45	0.38	3.29	6.73	0.01	0.08		0.08	0.07		0.07		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.39	0.33	2.83	5.79	0.01	0.07		0.07	0.06		0.06		1121	1121	0.05	0.01		1125
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.07	0.06	0.52	1.06	< 0.005	0.01		0.01	0.01		0.01		186	186	0.01	< 0.005		186
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	< 0.005	0.12	0	0	0.03	0.03	0	0.01	0.01		32.3	32.3	< 0.005	< 0.005	0.04	32.4
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		35.2	35.2	< 0.005	0.01	0.03	36.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.08	0	0	0.03	0.03	0	0.01	0.01		28.7	28.7	< 0.005	< 0.005	< 0.005	28.8
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		35.2	35.2	< 0.005	0.01	< 0.005	36.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	< 0.005	0.07	0	0	0.03	0.03	0	0.01	0.01		25.3	25.3	< 0.005	< 0.005	0.01	25.4
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		30.2	30.2	< 0.005	< 0.005	0.01	31.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	0.01	0.01	0	< 0.005	< 0.005		4.19	4.19	< 0.005	< 0.005	< 0.005	4.21
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		5.01	5.01	< 0.005	< 0.005	< 0.005	5.24
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2037) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.44	0.37	3.21	6.68	0.01	0.07		0.07	0.07		0.07		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.44	0.37	3.21	6.68	0.01	0.07		0.07	0.07		0.07		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.38	0.32	2.75	5.72	0.01	0.06		0.06	0.06		0.06		1118	1118	0.05	0.01		1122
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.07	0.06	0.5	1.04	< 0.005	0.01		0.01	0.01		0.01		185	185	0.01	< 0.005		186
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	< 0.005	0.11	0	0	0.03	0.03	0	0.01	0.01		32	32	< 0.005	< 0.005	0.03	32.1
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		34	34	< 0.005	0.01	0.02	35.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.08	0	0	0.03	0.03	0	0.01	0.01		28.4	28.4	< 0.005	< 0.005	< 0.005	28.5
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		34.1	34.1	< 0.005	0.01	< 0.005	35.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	< 0.005	0.07	0	0	0.03	0.03	0	0.01	0.01		25	25	< 0.005	< 0.005	0.01	25.1
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		29.2	29.2	< 0.005	< 0.005	0.01	30.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	0.01	0.01	0	< 0.005	< 0.005		4.14	4.14	< 0.005	< 0.005	< 0.005	4.15
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		4.83	4.83	< 0.005	< 0.005	< 0.005	5.07
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Building Construction (2038) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.44	0.37	3.16	6.66	0.01	0.07		0.07	0.06		0.06		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.44	0.37	3.16	6.66	0.01	0.07		0.07	0.06		0.06		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.38	0.32	2.71	5.71	0.01	0.06		0.06	0.06		0.06		1118	1118	0.05	0.01		1122
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.07	0.06	0.49	1.04	< 0.005	0.01		0.01	0.01		0.01		185	185	0.01	< 0.005		186
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	< 0.005	0.11	0	0	0.03	0.03	0	0.01	0.01		31.7	31.7	< 0.005	< 0.005	0.03	31.8
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		33	33	< 0.005	0.01	0.02	34.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.01	0.01	< 0.005	0.08	0	0	0.03	0.03	0	0.01	0.01		28.2	28.2	< 0.005	< 0.005	< 0.005	28.3
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		33.1	33.1	< 0.005	0.01	< 0.005	34.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	< 0.005	0.07	0	0	0.03	0.03	0	0.01	0.01		24.8	24.8	< 0.005	< 0.005	0.01	24.9
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		28.3	28.3	< 0.005	< 0.005	0.01	29.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	0.01	0.01	0	< 0.005	< 0.005		4.11	4.11	< 0.005	< 0.005	< 0.005	4.12
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		4.69	4.69	< 0.005	< 0.005	< 0.005	4.91
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.15. Building Construction (2039) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.43	0.37	3.09	6.63	0.01	0.07		0.07	0.06		0.06		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.43	0.37	3.09	6.63	0.01	0.07		0.07	0.06		0.06		1304	1304	0.05	0.01		1309
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.21	0.17	1.48	3.17	0.01	0.03		0.03	0.03		0.03		625	625	0.03	0.01		627
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.04	0.03	0.27	0.58	< 0.005	0.01		0.01	0.01		0.01		103	103	< 0.005	< 0.005		104
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.01	0.01	< 0.005	0.1	0	0	0.03	0.03	0	0.01	0.01		31.5	31.5	< 0.005	< 0.005	0.02	31.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		32.2	32.2	< 0.005	0.01	0.01	33.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.01	0.01	< 0.005	0.07	0	0	0.03	0.03	0	0.01	0.01		28	28	< 0.005	< 0.005	< 0.005	28.1
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		32.2	32.2	< 0.005	0.01	< 0.005	33.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.02	0.02	0	< 0.005	< 0.005		13.8	13.8	< 0.005	< 0.005	< 0.005	13.8
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		15.4	15.4	< 0.005	< 0.005	< 0.005	16.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.28	2.28	< 0.005	< 0.005	< 0.005	2.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		2.55	2.55	< 0.005	< 0.005	< 0.005	2.68
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.17. Paving (2039) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.45	0.38	3.5	5.24	0.01	0.09		0.09	0.08		0.08		823	823	0.03	0.01		826
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.45	0.38	3.5	5.24	0.01	0.09		0.09	0.08		0.08		823	823	0.03	0.01		826
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.09	0.07	0.66	0.99	< 0.005	0.02		0.02	0.02		0.02		156	156	0.01	< 0.005		156
Paving		0																

Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																			
Off-Road Ei	0.02	0.01	0.12	0.18	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		25.8	25.8	< 0.005	< 0.005			25.8
Paving		0																	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																			
Daily, Summer (Max)																			
Worker	0.04	0.03	0.02	0.54	0	0	0.18	0.18	0	0.04	0.04		162	162	< 0.005	< 0.005	0.12	163	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Daily, Winter (Max)																			
Worker	0.04	0.03	0.03	0.39	0	0	0.18	0.18	0	0.04	0.04		144	144	< 0.005	< 0.005	< 0.005	145	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Average Daily																			
Worker	0.01	0.01	< 0.005	0.08	0	0	0.03	0.03	0	0.01	0.01		28	28	< 0.005	< 0.005	0.01	28.1	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Annual																			
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	0.01	0.01	0	< 0.005	< 0.005		4.64	4.64	< 0.005	< 0.005	< 0.005	4.65	
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	

3.19. Architectural Coating (2039) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Ei	0.11	0.09	0.74	1.09	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Architectural Coatings		1.07																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.02	0.02	0.14	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		25.2	25.2	< 0.005	< 0.005		25.3
Architectural Coatings		0.2																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road Ei	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		4.18	4.18	< 0.005	< 0.005		4.19
Architectural Coatings		0.04																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	0.01	0.01	0	< 0.005	< 0.005		5.6	5.6	< 0.005	< 0.005	< 0.005	5.61	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Average Daily																			
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.09	1.09	< 0.005	< 0.005	< 0.005	1.09	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Annual																			
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.18	0.18	< 0.005	< 0.005	< 0.005	0.18	
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Demolition	Demolition	1/1/2035	1/8/2035	6	7	
Site Prepar	Site Prepar	1/9/2035	########	6	14	
Grading	Grading	########	########	6	28	
Building Co	Building Co	########	########	6	1380	
Paving	Paving	########	########	6	69	
Architectur	Architectur	########	########	6	69	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepow	Load Factor
Demolition	Tractors/Lc	Diesel	Average	2	6	84	0.37
Demolition	Rubber Tire	Diesel	Average	1	1	367	0.4
Demolition	Concrete/Ri	Diesel	Average	1	8	33	0.73
Site Prepar	Graders	Diesel	Average	1	8	148	0.41
Site Prepar	Tractors/Lc	Diesel	Average	1	8	84	0.37
Grading	Graders	Diesel	Average	1	6	148	0.41
Grading	Rubber Tire	Diesel	Average	1	6	367	0.4
Grading	Tractors/Lc	Diesel	Average	1	7	84	0.37
Building Co	Cranes	Diesel	Average	1	4	367	0.29
Building Co	Forklifts	Diesel	Average	2	6	82	0.2
Building Co	Tractors/Lc	Diesel	Average	2	8	84	0.37
Paving	Tractors/Lc	Diesel	Average	1	7	84	0.37
Paving	Cement an	Diesel	Average	4	6	10	0.56
Paving	Pavers	Diesel	Average	1	7	81	0.42
Paving	Rollers	Diesel	Average	1	7	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Demolition				
Demolition	Worker	10	14.3	LDA,LDT1,LDT2
Demolition	Vendor		8.8	HHDT,MHDT
Demolition	Hauling	0	20	HHDT
Demolition	Onsite truck			HHDT
Site Preparation				
Site Prepar	Worker	5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	7.5	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	3.39	14.3	LDA,LDT1,LDT2
Building Co	Vendor	1.74	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	17.5	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	0.68	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Reds	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectur	0	0	15900	5300	

5.6. Dust Mitigation
5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material Di	Acres Paved (acres)
Demolition	0	0	0		
Site Preparation			7	0	
Grading			21	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reds	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
General Off	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2035	0	149	0.01	< 0.005
2036	0	134	0.01	< 0.005
2037	0	119	0.01	< 0.005
2038	0	104	0.01	< 0.005
2039	0	89	0.01	< 0.005

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated

Biomass Co	Initial Acre	Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated

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

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

Climate Ha	Result for P	Unit
Temperatu	19.8	annual days of extreme heat
Extreme Pr	5	annual days with precipitation above 20 mm
Sea Level R	0	meters of inundation depth
Wildfire	0	annual hectares burned

Temperature and Extreme Heat data are for the 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 Ha	Exposure S	Sensitivity '	Adaptive Ca	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity '	Adaptive Ca	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	
AQ-PM	
AQ-DPM	
Drinking Water	
Lead Risk Housing	
Pesticides	
Toxic Releases	
Traffic	
Effect Indicators	
CleanUp Sites	
Groundwater	
Haz Waste Facilities/Generators	
Impaired Water Bodies	
Solid Waste	
Sensitive Population	
Asthma	
Cardio-vascular	
Low Birth Weights	
Socioeconomic Factor Indicators	
Education	
Housing	
Linguistic	
Poverty	
Unemployment	

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	
Employed	
Median HI	
Education	
Bachelor's or higher	
High school enrollment	
Preschool enrollment	
Transportation	
Auto Access	
Active commuting	
Social	
2-parent households	
Voting	
Neighborhood	
Alcohol availability	
Park access	
Retail density	
Supermarket access	
Tree canopy	
Housing	
Homeownership	
Housing habitability	
Low-inc homeowner severe housing cost burden	
Low-inc renter severe housing cost burden	
Uncrowded housing	
Health Outcomes	
Insured adults	
Arthritis	
Asthma ER Admissions	
High Blood Pressure	
Cancer (excluding skin)	
Asthma	
Coronary Heart Disease	
Chronic Obstructive Pulmonary Disease	
Diagnosed Diabetes	
Life Expectancy at Birth	
Cognitively Disabled	
Physically Disabled	
Heart Attack ER Admissions	
Mental Health Not Good	
Chronic Kidney Disease	
Obesity	
Pedestrian Injuries	
Physical Health Not Good	
Stroke	
Health Risk Behaviors	
Binge Drinking	
Current Smoker	
No Leisure Time for Physical Activity	
Climate Change Exposures	
Wildfire Risk	
SLR Inundation Area	
Children	

Elderly
English Speaking
Foreign-born
Outdoor Workers
Climate Change Adaptive Capacity
Impervious Surface Cover
Traffic Density
Traffic Access
Other Indices
Hardship
Other Decision Support
2016 Voting

7.3. Overall Health & Equity Scores
Metric Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)
Healthy Places Index Score for Project Location (b)
Project Loc No
Project Loc No
Project Loc No
a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures
Measure Ti Co-Benefits Achieved

7.5. Evaluation Scorecard
Category Number of Total Point Max Possib Weighted Score

7.6. Health & Equity Custom Measures
Measure Ti Sponsor

8. User Changes to Default Data
Screen Justification
Constructic6 days a week

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 4
Constructio	1/1/2040
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.38053334655811, -121.3901237359456
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
General Off	22.5	1000sqft	0.52	22500				Wallace Line Building
Fast Food R	0.5	1000sqft	0.01	500				Food Kiosk
Health Clut	1	1000sqft	0.02	1000				restrooms
Racquet Cl	7.6	1000sqft	0.17	7600				greenhouse 1 and 2
Automobile	8.5	1000sqft	0.2	8500				maintenance shed/shops
City Park	3.8	Acre	3.8	0				event storage
City Park	0.07	Acre	0.07	0	3000	3000		Australian Aviaries
City Park	0.25	Acre	0.25	0	11000	11000		Australia/Wallaby Aviary
City Park	0.1	Acre	0.1	0	4500	4500		cassowary
General Off	3	1000sqft	0.07	3000				kimono dragon
General Off	8.3	1000sqft	0.19	8300				interior exhibits
City Park	0.13	Acre	0.13	0	5500	5500		Asian Aviaries
City Park	0	Acre	0	0	200	200		blood python
City Park	0.16	Acre	0.16	0	7000	7000		clouded leopard
City Park	0.87	Acre	0.87	0	38000	38000		Tiger
City Park	0.07	Acre	0.07	0	3000	3000		Red Panda
City Park	0.76	Acre	0.76	0	33000	33000		Asian Apes
Medical Off	18	1000sqft	0.41	18000				Animal Care Quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.38	1.16	8.58	14.9	0.03	0.28	7.23	7.51	0.26	3.46	3.72		3097	3097	0.12	0.05	0.2	3108
Daily, Winter (Max)																		
Unmit.	2.61	7.76	16	20.2	0.05	0.58	19.8	20.4	0.53	10.1	10.7		5439	5439	0.22	0.05	0.01	5458
Average Daily (Max)																		
Unmit.	1.07	1.85	7.04	12.1	0.02	0.18	3.12	3.3	0.17	1.5	1.67		2676	2676	0.1	0.04	0.06	2691
Annual (Max)																		
Unmit.	0.2	0.34	1.28	2.21	< 0.005	0.03	0.57	0.6	0.03	0.27	0.31		443	443	0.02	0.01	0.01	446

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2040	1.38	1.16	8.58	14.9	0.03	0.28	7.23	7.51	0.26	3.46	3.72		3097	3097	0.12	0.05	0.2	3108
2041	1.01	0.84	6.91	13.2	0.03	0.14	0.32	0.46	0.13	0.08	0.21		2810	2810	0.11	0.05	0.16	2828
2042	1.01	0.84	6.86	13.1	0.03	0.14	0.32	0.45	0.13	0.08	0.2		2804	2804	0.11	0.05	0.13	2823
Daily - Winter (Max)																		
2040	2.61	2.2	16	20.2	0.05	0.58	19.8	20.4	0.53	10.1	10.7		5439	5439	0.22	0.05	0.01	5458
2041	1.01	0.84	6.94	13	0.03	0.14	0.32	0.46	0.13	0.08	0.21		2786	2786	0.11	0.05	< 0.005	2804
2042	1	7.76	6.89	12.9	0.03	0.14	0.32	0.45	0.13	0.08	0.2		2781	2781	0.11	0.05	< 0.005	2799
Average Daily																		
2040	1.07	0.89	7.04	12.1	0.02	0.18	3.12	3.3	0.17	1.5	1.67		2676	2676	0.1	0.04	0.06	2691
2041	0.87	0.72	5.94	11.1	0.02	0.12	0.27	0.39	0.11	0.07	0.18		2392	2392	0.09	0.04	0.06	2408
2042	0.64	1.85	4.54	8.57	0.02	0.09	0.19	0.28	0.08	0.05	0.13		1740	1740	0.07	0.03	0.04	1751
Annual																		
2040	0.2	0.16	1.28	2.21	< 0.005	0.03	0.57	0.6	0.03	0.27	0.31		443	443	0.02	0.01	0.01	446
2041	0.16	0.13	1.08	2.03	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03		396	396	0.02	0.01	0.01	399
2042	0.12	0.34	0.83	1.56	< 0.005	0.02	0.04	0.05	0.01	0.01	0.02		288	288	0.01	< 0.005	0.01	290

3. Construction Emissions Details

3.1. Site Preparation (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	2.58	2.17	15.9	19.8	0.05	0.58		0.58	0.53		0.53		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.22	0.18	1.35	1.69	< 0.005	0.05		0.05	0.05		0.05		450	450	0.02	< 0.005		451
Dust From Material Movement							1.67	1.67		0.86	0.86							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.04	0.03	0.25	0.31	< 0.005	0.01		0.01	0.01		0.01		74.5	74.5	< 0.005	< 0.005		74.7
Dust From Material Movement							0.3	0.3		0.16	0.16							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.03	0.03	0.38	0	0	0.18	0.18	0	0.04	0.04		143	143	< 0.005	< 0.005	< 0.005	144
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		12.5	12.5	< 0.005	< 0.005	< 0.005	12.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.07	2.07	< 0.005	< 0.005	< 0.005	2.08
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	1.35	1.13	8.57	14.4	0.03	0.28		0.28	0.26		0.26		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	1.35	1.13	8.57	14.4	0.03	0.28		0.28	0.26		0.26		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.23	0.2	1.48	2.49	< 0.005	0.05		0.05	0.04		0.04		511	511	0.02	< 0.005		512
Dust From Material Movement							1.22	1.22		0.59	0.59							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.04	0.04	0.27	0.45	< 0.005	0.01		0.01	0.01		0.01		84.6	84.6	< 0.005	< 0.005		84.8
Dust From Material Movement							0.22	0.22		0.11	0.11							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.02	0.45	0	0	0.15	0.15	0	0.04	0.04		138	138	< 0.005	< 0.005	0.09	139
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.03	0.02	0.32	0	0	0.15	0.15	0	0.04	0.04		123	123	< 0.005	< 0.005	< 0.005	123
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.03	0.03	0	0.01	0.01		21.8	21.8	< 0.005	< 0.005	0.01	21.8
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.6	3.6	< 0.005	< 0.005	< 0.005	3.62
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.96	0.8	6.71	12.4	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.96	0.8	6.71	12.4	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.57	0.48	4.03	7.45	0.01	0.09		0.09	0.08		0.08		1441	1441	0.06	0.01		1446
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.1	0.09	0.74	1.36	< 0.005	0.02		0.02	0.01		0.01		239	239	0.01	< 0.005		239
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.7	0	0	0.23	0.23	0	0.05	0.05		213	213	< 0.005	< 0.005	0.14	214
Vendor	0.01	0.01	0.25	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		205	205	0.01	0.03	0.07	216
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.5	0	0	0.23	0.23	0	0.05	0.05		189	189	< 0.005	< 0.005	< 0.005	190
Vendor	0.01	0.01	0.27	0.14	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		206	206	0.01	0.03	< 0.005	216
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Worker	0.03	0.02	0.01	0.31	0	0	0.14	0.14	0	0.03	0.03		117	117	< 0.005	< 0.005	0.04	117
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		124	124	< 0.005	0.02	0.02	130
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.03	0.03	0	0.01	0.01		19.4	19.4	< 0.005	< 0.005	0.01	19.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		20.5	20.5	< 0.005	< 0.005	< 0.005	21.5
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2041) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.95	0.8	6.65	12.3	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.95	0.8	6.65	12.3	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.81	0.68	5.7	10.6	0.02	0.12		0.12	0.11		0.11		2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.15	0.12	1.04	1.93	< 0.005		0.02		0.02		0.02		340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.69	0	0	0.23	0.23	0	0.05	0.05		212	212	< 0.005	< 0.005	0.11	213
Vendor	0.01	0.01	0.24	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		201	201	0.01	0.03	0.05	210
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.49	0	0	0.23	0.23	0	0.05	0.05		188	188	< 0.005	< 0.005	< 0.005	189
Vendor	0.01	0.01	0.26	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		201	201	0.01	0.03	< 0.005	210
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.04	0.03	0.02	0.43	0	0	0.2	0.2	0	0.05	0.05		166	166	< 0.005	< 0.005	0.04	166
Vendor	0.01	0.01	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02		172	172	0.01	0.03	0.02	180
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	< 0.005	0.08	0	0	0.04	0.04	0	0.01	0.01		27.4	27.4	< 0.005	< 0.005	0.01	27.5
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		28.5	28.5	< 0.005	< 0.005	< 0.005	29.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.95	0.79	6.6	12.3	0.02	0.13		0.13	0.12		0.12		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.95	0.79	6.6	12.3	0.02	0.13		0.13	0.12		0.12		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.49	0.41	3.4	6.34	0.01	0.07		0.07	0.06		0.06		1233	1233	0.05	0.01		1237
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.09	0.07	0.62	1.16	< 0.005		0.01		0.01		0.01		204	204	0.01	< 0.005		205
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.67	0	0	0.23	0.23	0	0.05	0.05		211	211	< 0.005	< 0.005	0.09	211
Vendor	0.01	0.01	0.23	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		197	197	0.01	0.03	0.04	206
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.47	0	0	0.23	0.23	0	0.05	0.05		187	187	< 0.005	< 0.005	< 0.005	188
Vendor	0.01	0.01	0.25	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		197	197	0.01	0.03	< 0.005	206
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.25	0	0	0.12	0.12	0	0.03	0.03		98.9	98.9	< 0.005	< 0.005	0.02	99.2
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		101	101	< 0.005	0.02	0.01	106
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.02	0.02	0	0.01	0.01		16.4	16.4	< 0.005	< 0.005	< 0.005	16.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16.8	16.8	< 0.005	< 0.005	< 0.005	17.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Paving (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Ei	0.56	0.47	5.16	9.73	0.01	0.1		0.1	0.09		0.09		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Ei	0.56	0.47	5.16	9.73	0.01	0.1		0.1	0.09		0.09		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.1	0.08	0.88	1.65	< 0.005		0.02		0.02		0.02		257	257	0.01	< 0.005		257
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	0.02	0.01	0.16	0.3	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		42.5	42.5	< 0.005	< 0.005		42.6
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.02	0.02	0.43	0	0	0.15	0.15	0	0.04	0.04		137	137	< 0.005	< 0.005	0.06	137
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.02	0.02	0.31	0	0	0.15	0.15	0	0.04	0.04		122	122	< 0.005	< 0.005	< 0.005	122
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.03	0.03	0	0.01	0.01		21.2	21.2	< 0.005	< 0.005	< 0.005	21.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005		0 < 0.005	< 0.005		3.51	3.51	< 0.005	< 0.005	< 0.005	3.52
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Architectural Coating (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Ei	0.11	0.09	0.74	1.09	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Architectural Coatings		7.66																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Ei	0.02	0.02	0.13	0.19	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		23	23	< 0.005	< 0.005		23.1
Architectural Coatings		1.32																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Ei	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.82	3.82	< 0.005	< 0.005		3.83
Architectural Coatings		0.24																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.09	0	0	0.05	0.05	0	0.01	0.01		37.5	37.5	< 0.005	< 0.005	< 0.005	37.6
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.64	6.64	< 0.005	< 0.005	< 0.005	6.66
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		0 < 0.005	< 0.005		1.1	1.1	< 0.005	< 0.005	< 0.005	1.1
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		

Subtotal

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

Annual
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal

5. Activity Data
5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2040	2/6/2040	6	31	
Grading	Grading	2/7/2040	########	6	63	
Building Co	Building Co	########	8/7/2042	6	720	
Paving	Paving	8/8/2042	########	6	62	
Architectur	Architectur	########	########	6	63	

5.2. Off-Road Equipment
5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lo	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lo	Diesel	Average	3	8	84	0.37
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator	Diesel	Average	1	8	14	0.74
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lo	Diesel	Average	3	7	84	0.37
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles
5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way T	Miles per T	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	23.1	14.3	LDA,LDT1,LDT2
Building Co	Vendor	11.4	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	4.62	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles
5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Reduc	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
Architectur	0	0	104100	34700	

5.6. Dust Mitigation
5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Ex	Acres Grad	Material Di	Acres Paved (acres)
Site Preparation			46.5	0	
Grading			63	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reduc	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
General Off	0	0
Fast Food R	0	0
Health Clut	0	0
Racquet Cl	0	0
Automobil	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
General Off	0	0
General Off	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Off	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Ye	CO2	CH4	N2O
2040	0	375	0.01	< 0.005
2041	0	375	0.01	< 0.005
2042	0	375	0.01	< 0.005

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acres	Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated

Biomass Co	Initial Acres	Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated

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

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

Climate Ha	Result for P	Unit
Temperatu	19.8	annual days of extreme heat
Extreme Pr	5	annual days with precipitation above 20 mm
Sea Level R	0	meters of inundation depth
Wildfire	0	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 Ha	Exposure S	Sensitivity '	Adaptive Ca	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity '	Adaptive Ca	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2

Drought 1 1 1 2
Snowpack IN/A N/A N/A N/A
Air Quality 1 1 1 2
The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
Indicator Result for Project Census Tract
Exposure Indicators
AQ-Ozone
AQ-PM
AQ-DPM
Drinking Water
Lead Risk Housing
Pesticides
Toxic Releases
Traffic
Effect Indicators
CleanUp Sites
Groundwater
Haz Waste Facilities/Generators
Impaired Water Bodies
Solid Waste
Sensitive Population
Asthma
Cardio-vascular
Low Birth Weights
Socioeconomic Factor Indicators
Education
Housing
Linguistic
Poverty
Unemployment

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
Employed
Median HI
Education
Bachelor's or higher
High school enrollment
Preschool enrollment
Transportation
Auto Access
Active commuting
Social
2-parent households
Voting
Neighborhood
Alcohol availability
Park access
Retail density
Supermarket access
Tree canopy
Housing
Homeownership
Housing habitability
Low-inc homeowner severe housing cost burden
Low-inc renter severe housing cost burden
Uncrowded housing
Health Outcomes
Insured adults
Arthritis
Asthma ER Admissions
High Blood Pressure
Cancer (excluding skin)
Asthma
Coronary Heart Disease
Chronic Obstructive Pulmonary Disease
Diagnosed Diabetes
Life Expectancy at Birth
Cognitively Disabled
Physically Disabled
Heart Attack ER Admissions
Mental Health Not Good
Chronic Kidney Disease
Obesity
Pedestrian Injuries
Physical Health Not Good
Stroke
Health Risk Behaviors
Binge Drinking
Current Smoker
No Leisure Time for Physical Activity
Climate Change Exposures
Wildfire Risk
SLR Inundation Area
Children
Elderly
English Speaking
Foreign-born
Outdoor Workers
Climate Change Adaptive Capacity
Impervious Surface Cover
Traffic Density
Traffic Access
Other Indices
Hardship
Other Decision Support
2016 Voting

7.3. Overall Health & Equity Scores
Metric Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)
Healthy Places Index Score for Project Location (b)
Project Loc No
Project Loc No
Project Loc No
a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures
Measure TiCo-Benefits Achieved

7.5. Evaluation Scorecard
Category Number of Total Point Max PossibWeighted Score

7.6. Health & Equity Custom Measures
Measure TiSponsor

8. User Changes to Default Data
Screen Justification
Constructic6 days a week

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Operations
Operationa	2043
Lead Agency	
Land Use Si	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.377834801170O8, -121.38807759275002
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.19

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
General Off	182	1000sqft	0	0	0			
Free-Stand	26.6	1000sqft	0.61	26600	0			
Day-Care C	12.7	1000sqft	0.29	12700	0			
Fast Food R	53.5	1000sqft	1.23	53450	0			
City Park	15	Acre	15	0	654005	654005		
Hotel	10	Room	0.33	2000	0			
Other Asph	8.6	1000sqft	0.2	0	0			
Parking Lot	1200	Space	10.8	0	0			

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	7.3	24.9	4.57	76.8	0.2	0.08	21.2	21.3	0.07	5.39	5.46	586	20724	21310	50.8	0.91	93.8	22944
Mit.	7.3	24.9	4.57	76.8	0.2	0.08	21.2	21.3	0.07	5.39	5.46	586	20377	20963	50.6	0.89	93.8	22588
% Reduced													1.67	1.63	0.29	2.16		1.55
Daily, Winter (Max)																		
Unmit.	6.16	23.8	5.42	57.4	0.18	0.07	21.2	21.3	0.07	5.39	5.46	586	18864	19450	50.8	0.97	87	21098
Mit.	6.16	23.8	5.42	57.4	0.18	0.07	21.2	21.3	0.07	5.39	5.46	586	18517	19104	50.7	0.95	87	20742
% Reduced													1.84	1.78	0.29	2.02		1.69
Average Daily (Max)																		
Unmit.	6.91	24.5	5.06	62.8	0.18	0.08	20.7	20.8	0.07	5.26	5.34	586	19265	19852	50.8	0.94	89.9	21492
Mit.	6.91	24.5	5.06	62.8	0.18	0.08	20.7	20.8	0.07	5.26	5.34	586	18919	19505	50.7	0.92	89.9	21136
% Reduced													1.8	1.75	0.29	2.08		1.66
Annual (Max)																		
Unmit.	1.26	4.47	0.92	11.5	0.03	0.01	3.78	3.8	0.01	0.96	0.97	97.1	3190	3287	8.41	0.16	14.9	3558
Mit.	1.26	4.47	0.92	11.5	0.03	0.01	3.78	3.8	0.01	0.96	0.97	97.1	3132	3229	8.39	0.15	14.9	3499
% Reduced													1.8	1.75	0.29	2.08		1.66

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	6.57	5.98	4.54	72.7	0.2	0.07	21.2	21.3	0.07	5.39	5.46		20108	20108	0.53	0.68	6.99	20331
Area	0.73	18.9	0.03	4.12	< 0.005	0.01		0.01	0.01		0.01		16.9	16.9	< 0.005	< 0.005		17
Energy	0	0	0	0	0	0		0	0		0		579	579	0.25	0.03		595
Water												89.3	19.7	109	0.32	0.2		175
Waste												497	0	497	49.7	0		1739
Refrig.																	86.9	86.9
Total	7.3	24.9	4.57	76.8	0.2	0.08	21.2	21.3	0.07	5.39	5.46	586	20724	21310	50.8	0.91	93.8	22944
Daily, Winter (Max)																		
Mobile	6.16	5.58	5.42	57.4	0.18	0.07	21.2	21.3	0.07	5.39	5.46		18265	18265	0.57	0.74	0.18	18502
Area		18.2																
Energy	0	0	0	0	0	0		0	0		0		579	579	0.25	0.03		595
Water												89.3	19.7	109	0.32	0.2		175
Waste												497	0	497	49.7	0		1739
Refrig.																	86.9	86.9
Total	6.16	23.8	5.42	57.4	0.18	0.07	21.2	21.3	0.07	5.39	5.46	586	18864	19450	50.8	0.97	87	21098
Average Daily																		
Mobile	6.18	5.59	5.02	58.7	0.18	0.07	20.7	20.8	0.07	5.26	5.33		18650	18650	0.55	0.71	3.02	18879
Area	0.73	18.9	0.03	4.12	< 0.005	0.01		0.01	0.01		0.01		16.9	16.9	< 0.005	< 0.005		17
Energy	0	0	0	0	0	0		0	0		0		579	579	0.25	0.03		595
Water												89.3	19.7	109	0.32	0.2		175
Waste												497	0	497	49.7	0		1739
Refrig.																	86.9	86.9
Total	6.91	24.5	5.06	62.8	0.18	0.08	20.7	20.8	0.07	5.26	5.34	586	19265	19852	50.8	0.94	89.9	21492
Annual																		
Mobile	1.13	1.02	0.92	10.7	0.03	0.01	3.78	3.8	0.01	0.96	0.97		3088	3088	0.09	0.12	0.5	3126
Area	0.13	3.45	0.01	0.75	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.81	2.81	< 0.005	< 0.005		2.82
Energy	0	0	0	0	0	0		0	0		0		95.9	95.9	0.04	0.01		98.5
Water												14.8	3.25	18	0.05	0.03		29
Waste												82.3	0	82.3	8.23	0		288
Refrig.																	14.4	14.4
Total	1.26	4.47	0.92	11.5	0.03	0.01	3.78	3.8	0.01	0.96	0.97	97.1	3190	3287	8.41	0.16	14.9	3558

2.6. Operations Emissions by Sector, Mitigated

Sector	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Mobile	6.57	5.98	4.54	72.7	0.2	0.07	21.2	21.3	0.07	5.39	5.46		20108	20108	0.53	0.68	6.99	20331
Area	0.73	18.9	0.03	4.12	< 0.005	0.01		0.01	0.01		0.01		16.9	16.9	< 0.005	< 0.005		17
Energy	0	0	0	0	0	0		0	0		0		232	232	0.1	0.01		239
Water												89.3	19.7	109	0.32	0.2		175
Waste												497	0	497	49.7	0		1739
Refrig.																	86.9	86.9
Total	7.3	24.9	4.57	76.8	0.2	0.08	21.2	21.3	0.07	5.39	5.46	586	20377	20963	50.6	0.89	93.8	22588
Daily, Winter (Max)																		
Mobile	6.16	5.58	5.42	57.4	0.18	0.07	21.2	21.3	0.07	5.39	5.46		18265	18265	0.57	0.74	0.18	18502
Area		18.2																
Energy	0	0	0	0	0	0		0	0		0		232	232	0.1	0.01		239
Water												89.3	19.7	109	0.32	0.2		175
Waste												497	0	497	49.7	0		1739
Refrig.																	86.9	86.9
Total	6.16	23.8	5.42	57.4	0.18	0.07	21.2	21.3	0.07	5.39	5.46	586	18517	19104	50.7	0.95	87	20742
Average Daily																		
Mobile	6.18	5.59	5.02	58.7	0.18	0.07	20.7	20.8	0.07	5.26	5.33		18650	18650	0.55	0.71	3.02	18879
Area	0.73	18.9	0.03	4.12	< 0.005	0.01		0.01	0.01		0.01		16.9	16.9	< 0.005	< 0.005		17
Energy	0	0	0	0	0	0		0	0		0		232	232	0.1	0.01		239
Water												89.3	19.7	109	0.32	0.2		175
Waste												497	0	497	49.7	0		1739
Refrig.																	86.9	86.9
Total	6.91	24.5	5.06	62.8	0.18	0.08	20.7	20.8	0.07	5.26	5.34	586	18919	19505	50.7	0.92	89.9	21136
Annual																		
Mobile	1.13	1.02	0.92	10.7	0.03	0.01	3.78	3.8	0.01	0.96	0.97		3088	3088	0.09	0.12	0.5	3126
Area	0.13	3.45	0.01	0.75	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.81	2.81	< 0.005	< 0.005		2.82
Energy	0	0	0	0	0	0		0	0		0		38.5	38.5	0.02	< 0.005		39.5
Water												14.8	3.25	18	0.05	0.03		29
Waste												82.3	0	82.3	8.23	0		288
Refrig.																	14.4	14.4
Total	1.26	4.47	0.92	11.5	0.03	0.01	3.78	3.8	0.01	0.96	0.97	97.1	3132	3229	8.39	0.15	14.9	3499

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Off	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Free-Stand	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Day-Care C	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Fast Food R	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
City Park	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Hotel	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Other Asph	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Parking Lot	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Total	6.57	5.98	4.54	72.7	0.2	0.07	21.2	21.3	0.07	5.39	5.46		20108	20108	0.53	0.68	6.99	20331
Daily, Winter (Max)																		
General Off	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2283	2283	0.07	0.09	0.02	2313
Free-Stand	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2283	2283	0.07	0.09	0.02	2313
Day-Care C	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2283	2283	0.07	0.09	0.02	2313
Fast Food R	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2283	2283	0.07	0.09	0.02	2313
City Park	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2283	2283	0.07	0.09	0.02	2313
Hotel	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2283	2283	0.07	0.09	0.02	2313
Other Asph	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2283	2283	0.07	0.09	0.02	2313
Parking Lot	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2283	2283	0.07	0.09	0.02	2313
Total	6.16	5.58	5.42	57.4	0.18	0.07	21.2	21.3	0.07	5.39	5.46		18265	18265	0.57	0.74	0.18	18502
Annual																		
General Off	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12		386	386	0.01	0.01	0.06	391
Free-Stand	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12		386	386	0.01	0.01	0.06	391
Day-Care C	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12		386	386	0.01	0.01	0.06	391
Fast Food R	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12		386	386	0.01	0.01	0.06	391
City Park	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12		386	386	0.01	0.01	0.06	391
Hotel	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12		386	386	0.01	0.01	0.06	391
Other Asph	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12		386	386	0.01	0.01	0.06	391
Parking Lot	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12		386	386	0.01	0.01	0.06	391
Total	1.13	1.02	0.92	10.7	0.03	0.01	3.78	3.8	0.01	0.96	0.97		3088	3088	0.09	0.12	0.5	3126

4.1.2. Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Off	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Free-Stand	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Day-Care C	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Fast Food R	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
City Park	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541
Hotel	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68		2514	2514	0.07	0.08	0.87	2541

Other Asph	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2514	2514	0.07	0.08	0.87	2541
Parking Lot	0.82	0.75	0.57	9.09	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2514	2514	0.07	0.08	0.87	2541
Total	6.57	5.98	4.54	72.7	0.2	0.07	21.2	21.3	0.07	5.39	5.46	20108	20108	0.53	0.68	6.99	20331
Daily, Winter (Max)																	
General Off	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2283	2283	0.07	0.09	0.02	2313
Free-Stand	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2283	2283	0.07	0.09	0.02	2313
Day-Care C	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2283	2283	0.07	0.09	0.02	2313
Fast Food R	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2283	2283	0.07	0.09	0.02	2313
City Park	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2283	2283	0.07	0.09	0.02	2313
Hotel	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2283	2283	0.07	0.09	0.02	2313
Other Asph	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2283	2283	0.07	0.09	0.02	2313
Parking Lot	0.77	0.7	0.68	7.18	0.02	0.01	2.65	2.66	0.01	0.67	0.68	2283	2283	0.07	0.09	0.02	2313
Total	6.16	5.58	5.42	57.4	0.18	0.07	21.2	21.3	0.07	5.39	5.46	18265	18265	0.57	0.74	0.18	18502
Annual																	
General Off	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	386	386	0.01	0.01	0.06	391
Free-Stand	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	386	386	0.01	0.01	0.06	391
Day-Care C	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	386	386	0.01	0.01	0.06	391
Fast Food R	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	386	386	0.01	0.01	0.06	391
City Park	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	386	386	0.01	0.01	0.06	391
Hotel	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	386	386	0.01	0.01	0.06	391
Other Asph	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	386	386	0.01	0.01	0.06	391
Parking Lot	0.14	0.13	0.11	1.34	< 0.005	< 0.005	0.47	0.47	< 0.005	0.12	0.12	386	386	0.01	0.01	0.06	391
Total	1.13	1.02	0.92	10.7	0.03	0.01	3.78	3.8	0.01	0.96	0.97	3088	3088	0.09	0.12	0.5	3126

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building													344	344	0.15	0.02		354
Free-Standing Discount store													20.5	20.5	0.01	< 0.005		21
Day-Care Center													7.96	7.96	< 0.005	< 0.005		8.18
Fast Food Restaurant w/o Drive Thru													172	172	0.07	0.01		176
City Park													0	0	0	0		0
Hotel													1.02	1.02	< 0.005	< 0.005		1.05
Other Asphalt Surfaces													0	0	0	0		0
Parking Lot													33.9	33.9	0.01	< 0.005		34.8
Total													579	579	0.25	0.03		595
Daily, Winter (Max)																		
General Office Building													344	344	0.15	0.02		354
Free-Standing Discount store													20.5	20.5	0.01	< 0.005		21
Day-Care Center													7.96	7.96	< 0.005	< 0.005		8.18
Fast Food Restaurant w/o Drive Thru													172	172	0.07	0.01		176
City Park													0	0	0	0		0
Hotel													1.02	1.02	< 0.005	< 0.005		1.05
Other Asphalt Surfaces													0	0	0	0		0
Parking Lot													33.9	33.9	0.01	< 0.005		34.8
Total													579	579	0.25	0.03		595
Annual																		
General Office Building													57	57	0.02	< 0.005		58.5
Free-Standing Discount store													3.39	3.39	< 0.005	< 0.005		3.48
Day-Care Center													1.32	1.32	< 0.005	< 0.005		1.35
Fast Food Restaurant w/o Drive Thru													28.4	28.4	0.01	< 0.005		29.2
City Park													0	0	0	0		0
Hotel													0.17	0.17	< 0.005	< 0.005		0.17
Other Asphalt Surfaces													0	0	0	0		0
Parking Lot													5.61	5.61	< 0.005	< 0.005		5.76
Total													95.9	95.9	0.04	0.01		98.5

4.2.2. Electricity Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building													0	0	0	0		0
Free-Standing Discount store													17.8	17.8	0.01	< 0.005		18.3
Day-Care Center													7.96	7.96	< 0.005	< 0.005		8.18
Fast Food Restaurant w/o Drive Thru													172	172	0.07	0.01		176
City Park													0	0	0	0		0
Hotel													1.02	1.02	< 0.005	< 0.005		1.05
Other Asphalt Surfaces													0	0	0	0		0
Parking Lot													33.9	33.9	0.01	< 0.005		34.8
Total													232	232	0.1	0.01		239
Daily, Winter (Max)																		
General Office Building													0	0	0	0		0
Free-Standing Discount store													17.8	17.8	0.01	< 0.005		18.3
Day-Care Center													7.96	7.96	< 0.005	< 0.005		8.18
Fast Food Restaurant w/o Drive Thru													172	172	0.07	0.01		176
City Park													0	0	0	0		0
Hotel													1.02	1.02	< 0.005	< 0.005		1.05
Other Asphalt Surfaces													0	0	0	0		0
Parking Lot													33.9	33.9	0.01	< 0.005		34.8
Total													232	232	0.1	0.01		239
Annual																		
General Office Building													0	0	0	0		0
Free-Standing Discount store													2.95	2.95	< 0.005	< 0.005		3.04
Day-Care Center													1.32	1.32	< 0.005	< 0.005		1.35
Fast Food Restaurant w/o Drive Thru													28.4	28.4	0.01	< 0.005		29.2
City Park													0	0	0	0		0
Hotel													0.17	0.17	< 0.005	< 0.005		0.17
Other Asphalt Surfaces													0	0	0	0		0
Parking Lot													5.61	5.61	< 0.005	< 0.005		5.76
Total													38.5	38.5	0.02	< 0.005		39.5

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Off	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Free-Stand	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Day-Care C	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Fast Food R	0	0	0	0	0	0		0	0		0		0	0	0	0		0
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Hotel	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Asph	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Daily, Winter (Max)																		
General Off	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Free-Stand	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Day-Care C	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Fast Food R	0	0	0	0	0	0		0	0		0		0	0	0	0		0
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Hotel	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Asph	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Annual																		
General Off	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Free-Stand	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Day-Care C	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Fast Food R	0	0	0	0	0	0		0	0		0		0	0	0	0		0
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Hotel	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Asph	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0	0	0	0	0	0		0	0		0		0	0	0	0		0

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Off	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Free-Stand	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Day-Care C	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Fast Food R	0	0	0	0	0	0		0	0		0		0	0	0	0		0
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Hotel	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Asph	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Daily, Winter (Max)																		
General Off	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Free-Stand	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Day-Care C	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Fast Food R	0	0	0	0	0	0		0	0		0		0	0	0	0		0
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Hotel	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Asph	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Annual																		
General Off	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Free-Stand	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Day-Care C	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Fast Food R	0	0	0	0	0	0		0	0		0		0	0	0	0		0
City Park	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Hotel	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Other Asph	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Parking Lot	0	0	0	0	0	0		0	0		0		0	0	0	0		0
Total	0	0	0	0	0	0		0	0		0		0	0	0	0		0

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		16.4																
Architectural Coatings		1.81																
Landscape	0.73	0.68	0.03	4.12	< 0.005	0.01		0.01	0.01		0.01		16.9	16.9	< 0.005	< 0.005		17
Total	0.73	18.9	0.03	4.12	< 0.005	0.01		0.01	0.01		0.01		16.9	16.9	< 0.005	< 0.005		17
Daily, Winter (Max)																		
Consumer Products		16.4																
Architectural Coatings		1.81																
Total		18.2																
Annual																		

Consumer Products	3																	
Architectural Coatings	0.33																	
Landscape	0.13	0.12	0.01	0.75	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.81	2.81	< 0.005	< 0.005		2.82
Total	0.13	3.45	0.01	0.75	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.81	2.81	< 0.005	< 0.005		2.82

4.3.2. Mitigated

Source	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Consumer Products		16.4																
Architectural Coatings		1.81																
Landscape	0.73	0.68	0.03	4.12	< 0.005	0.01		0.01	0.01		0.01		16.9	16.9	< 0.005	< 0.005		17
Total	0.73	18.9	0.03	4.12	< 0.005	0.01		0.01	0.01		0.01		16.9	16.9	< 0.005	< 0.005		17
Daily, Winter (Max)																		
Consumer Products		16.4																
Architectural Coatings		1.81																
Total		18.2																
Annual																		
Consumer Products		3																
Architectural Coatings		0.33																
Landscape	0.13	0.12	0.01	0.75	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.81	2.81	< 0.005	< 0.005		2.82
Total	0.13	3.45	0.01	0.75	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.81	2.81	< 0.005	< 0.005		2.82

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												48.7	5.07	53.8	0.17	0.11		89.9
Free-Standing Discount store												4.21	0.44	4.65	0.01	0.01		7.76
Day-Care Center												1.16	0.12	1.29	< 0.005	< 0.005		2.15
Fast Food Restaurant w/o Drive Thru												34.7	3.61	38.3	0.12	0.08		63.9
City Park												0	10.4	10.4	< 0.005	< 0.005		10.7
Hotel												0.54	0.06	0.6	< 0.005	< 0.005		1
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Parking Lot												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Total												89.3	19.7	109	0.32	0.2		175
Daily, Winter (Max)																		
General Office Building												48.7	5.07	53.8	0.17	0.11		89.9
Free-Standing Discount store												4.21	0.44	4.65	0.01	0.01		7.76
Day-Care Center												1.16	0.12	1.29	< 0.005	< 0.005		2.15
Fast Food Restaurant w/o Drive Thru												34.7	3.61	38.3	0.12	0.08		63.9
City Park												0	10.4	10.4	< 0.005	< 0.005		10.7
Hotel												0.54	0.06	0.6	< 0.005	< 0.005		1
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Parking Lot												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Total												89.3	19.7	109	0.32	0.2		175
Annual																		
General Office Building												8.07	0.84	8.91	0.03	0.02		14.9
Free-Standing Discount store												0.7	0.07	0.77	< 0.005	< 0.005		1.29
Day-Care Center												0.19	0.02	0.21	< 0.005	< 0.005		0.36
Fast Food Restaurant w/o Drive Thru												5.74	0.6	6.34	0.02	0.01		10.6
City Park												0	1.72	1.72	< 0.005	< 0.005		1.76
Hotel												0.09	0.01	0.1	< 0.005	< 0.005		0.17
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Parking Lot												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Total												14.8	3.25	18	0.05	0.03		29

4.4.2. Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												48.7	5.07	53.8	0.17	0.11		89.9
Free-Standing Discount store												4.21	0.44	4.65	0.01	0.01		7.76
Day-Care Center												1.16	0.12	1.29	< 0.005	< 0.005		2.15
Fast Food Restaurant w/o Drive Thru												34.7	3.61	38.3	0.12	0.08		63.9
City Park												0	10.4	10.4	< 0.005	< 0.005		10.7
Hotel												0.54	0.06	0.6	< 0.005	< 0.005		1
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Parking Lot												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Total												89.3	19.7	109	0.32	0.2		175
Daily, Winter (Max)																		
General Office Building												48.7	5.07	53.8	0.17	0.11		89.9
Free-Standing Discount store												4.21	0.44	4.65	0.01	0.01		7.76
Day-Care Center												1.16	0.12	1.29	< 0.005	< 0.005		2.15
Fast Food Restaurant w/o Drive Thru												34.7	3.61	38.3	0.12	0.08		63.9
City Park												0	10.4	10.4	< 0.005	< 0.005		10.7
Hotel												0.54	0.06	0.6	< 0.005	< 0.005		1
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Parking Lot												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Total												89.3	19.7	109	0.32	0.2		175
Annual																		
General Office Building												8.07	0.84	8.91	0.03	0.02		14.9
Free-Standing Discount store												0.7	0.07	0.77	< 0.005	< 0.005		1.29
Day-Care Center												0.19	0.02	0.21	< 0.005	< 0.005		0.36
Fast Food Restaurant w/o Drive Thru												5.74	0.6	6.34	0.02	0.01		10.6
City Park												0	1.72	1.72	< 0.005	< 0.005		1.76
Hotel												0.09	0.01	0.1	< 0.005	< 0.005		0.17
Other Asphalt Surfaces												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Parking Lot												0	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005
Total												14.8	3.25	18	0.05	0.03		29

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												91.1	0	91.1	9.11	0		319
Free-Standing Discount store												61.7	0	61.7	6.16	0		216
Day-Care Center												8.9	0	8.9	0.89	0		31.1
Fast Food Restaurant w/o Drive Thru												332	0	332	33.2	0		1161
City Park												0.7	0	0.7	0.07	0		2.43
Hotel												2.95	0	2.95	0.29	0		10.3
Other Asphalt Surfaces												0	0	0	0	0		0
Parking Lot												0	0	0	0	0		0
Total												497	0	497	49.7	0		1739
Daily, Winter (Max)																		
General Office Building												91.1	0	91.1	9.11	0		319
Free-Standing Discount store												61.7	0	61.7	6.16	0		216
Day-Care Center												8.9	0	8.9	0.89	0		31.1
Fast Food Restaurant w/o Drive Thru												332	0	332	33.2	0		1161
City Park												0.7	0	0.7	0.07	0		2.43
Hotel												2.95	0	2.95	0.29	0		10.3
Other Asphalt Surfaces												0	0	0	0	0		0
Parking Lot												0	0	0	0	0		0
Total												497	0	497	49.7	0		1739
Annual																		
General Office Building												15.1	0	15.1	1.51	0		52.8
Free-Standing Discount store												10.2	0	10.2	1.02	0		35.7
Day-Care Center												1.47	0	1.47	0.15	0		5.15
Fast Food Restaurant w/o Drive Thru												54.9	0	54.9	5.49	0		192
City Park												0.12	0	0.12	0.01	0		0.4
Hotel												0.49	0	0.49	0.05	0		1.71
Other Asphalt Surfaces												0	0	0	0	0		0
Parking Lot												0	0	0	0	0		0
Total												82.3	0	82.3	8.23	0		288

4.5.2. Mitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building												91.1	0	91.1	9.11	0		319
Free-Standing Discount store												61.7	0	61.7	6.16	0		216
Day-Care Center												8.9	0	8.9	0.89	0		31.1
Fast Food Restaurant w/o Drive Thru												332	0	332	33.2	0		1161
City Park												0.7	0	0.7	0.07	0		2.43
Hotel												2.95	0	2.95	0.29	0		10.3
Other Asphalt Surfaces												0	0	0	0	0		0
Parking Lot												0	0	0	0	0		0
Total												497	0	497	49.7	0		1739
Daily, Winter (Max)																		
General Office Building												91.1	0	91.1	9.11	0		319
Free-Standing Discount store												61.7	0	61.7	6.16	0		216
Day-Care Center												8.9	0	8.9	0.89	0		31.1
Fast Food Restaurant w/o Drive Thru												332	0	332	33.2	0		1161
City Park												0.7	0	0.7	0.07	0		2.43
Hotel												2.95	0	2.95	0.29	0		10.3
Other Asphalt Surfaces												0	0	0	0	0		0
Parking Lot												0	0	0	0	0		0
Total												497	0	497	49.7	0		1739
Annual																		
General Office Building												15.1	0	15.1	1.51	0		52.8
Free-Standing Discount store												10.2	0	10.2	1.02	0		35.7
Day-Care Center												1.47	0	1.47	0.15	0		5.15
Fast Food Restaurant w/o Drive Thru												54.9	0	54.9	5.49	0		192
City Park												0.12	0	0.12	0.01	0		0.4
Hotel												0.49	0	0.49	0.05	0		1.71
Other Asphalt Surfaces												0	0	0	0	0		0
Parking Lot												0	0	0	0	0		0
Total												82.3	0	82.3	8.23	0		288

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
General Office Building																	0	0
Free-Standing Discount store																	0.13	0.13
Day-Care Center																	0.05	0.05
Fast Food Restaurant w/o Drive Thru																	83.6	83.6
City Park																	0	0
Hotel																	3.13	3.13
Total																	86.9	86.9
Daily, Winter (Max)																		
General Office Building																	0	0
Free-Standing Discount store																	0.13	0.13

Day-Care Center	0.05	0.05
Fast Food Restaurant w/o Drive Thru	83.6	83.6
City Park	0	0
Hotel	3.13	3.13
Total	86.9	86.9
Annual		
General Office Building	0	0
Free-Standing Discount store	0.02	0.02
Day-Care Center	0.01	0.01
Fast Food Restaurant w/o Drive Thru	13.8	13.8
City Park	0	0
Hotel	0.52	0.52
Total	14.4	14.4

4.6.2. Mitigated

Land Use TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e		
Daily, Summer (Max)		
General Office Building	0	0
Free-Standing Discount store	0.13	0.13
Day-Care Center	0.05	0.05
Fast Food Restaurant w/o Drive Thru	83.6	83.6
City Park	0	0
Hotel	3.13	3.13
Total	86.9	86.9
Daily, Winter (Max)		
General Office Building	0	0
Free-Standing Discount store	0.13	0.13
Day-Care Center	0.05	0.05
Fast Food Restaurant w/o Drive Thru	83.6	83.6
City Park	0	0
Hotel	3.13	3.13
Total	86.9	86.9
Annual		
General Office Building	0	0
Free-Standing Discount store	0.02	0.02
Day-Care Center	0.01	0.01
Fast Food Restaurant w/o Drive Thru	13.8	13.8
City Park	0	0
Hotel	0.52	0.52
Total	14.4	14.4

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipment TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

4.7.2. Mitigated

Equipment TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

4.8.2. Mitigated

Equipment TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipment TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

4.9.2. Mitigated

Equipment TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
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

Vegetation TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

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

Land Use TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal
Daily, Winter (Max)
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal
Annual
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Vegetation TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

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

Land Use TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Total
Daily, Winter (Max)
Total
Annual
Total

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Species TOG ROG NOx CO SO_2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO_2 $NBCO_2$ CO_2T CH_4 N_2O R CO_2e
Daily, Summer (Max)
Avoided
Subtotal
Sequestered
Subtotal
Removed

Subtotal

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

Annual
Avoided
Subtotal
Sequestered
Subtotal
Removed
Subtotal

5. Activity Data
5.9. Operational Mobile Sources
5.9.1. Unmitigated

Land Use	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Off	286	286	286	104527	3755	3755	3755	1370575
Free-Stand	286	286	286	104527	3755	3755	3755	1370575
Day-Care C	286	286	286	104527	3755	3755	3755	1370575
Fast Food R	286	286	286	104527	3755	3755	3755	1370575
City Park	286	286	286	104527	3755	3755	3755	1370575
Hotel	286	286	286	104527	3755	3755	3755	1370575
Other Asph	286	286	286	104527	3755	3755	3755	1370575
Parking Lot	286	286	286	104527	3755	3755	3755	1370575

5.9.2. Mitigated

Land Use	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Off	286	286	286	104527	3755	3755	3755	1370575
Free-Stand	286	286	286	104527	3755	3755	3755	1370575
Day-Care C	286	286	286	104527	3755	3755	3755	1370575
Fast Food R	286	286	286	104527	3755	3755	3755	1370575
City Park	286	286	286	104527	3755	3755	3755	1370575
Hotel	286	286	286	104527	3755	3755	3755	1370575
Other Asph	286	286	286	104527	3755	3755	3755	1370575
Parking Lot	286	286	286	104527	3755	3755	3755	1370575

5.10. Operational Area Sources
5.10.1. Hearths
5.10.1.1. Unmitigated

Hearth Typ	Unmitigated (number)

5.10.1.2. Mitigated

Hearth Typ	Unmitigated (number)

5.10.2. Architectural Coatings

Residential	Residential	Non-Reside	Non-Reside	Parking Area Coated (sq ft)
0	0	1395833	465278	28743

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0
Summer Da	day/yr	365

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0
Summer Da	day/yr	365

5.11. Operational Energy Consumption
5.11.1. Unmitigated

Land Use	Electricity (	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Off	4185837	30	0.0129	0.0017	0
Free-Stand	249011	30	0.0129	0.0017	0
Day-Care C	96819	30	0.0129	0.0017	0
Fast Food R	2087835	30	0.0129	0.0017	0
City Park	0	30	0.0129	0.0017	0
Hotel	12421	30	0.0129	0.0017	0
Other Asph	0	30	0.0129	0.0017	0
Parking Lot	412112	30	0.0129	0.0017	0

5.11.2. Mitigated

Land Use	Electricity (	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Off	0	30	0.0129	0.0017	0
Free-Stand	217141	30	0.0129	0.0017	0
Day-Care C	96819	30	0.0129	0.0017	0
Fast Food R	2087835	30	0.0129	0.0017	0
City Park	0	30	0.0129	0.0017	0
Hotel	12421	30	0.0129	0.0017	0
Other Asph	0	30	0.0129	0.0017	0
Parking Lot	412112	30	0.0129	0.0017	0

5.12. Operational Water and Wastewater Consumption
5.12.1. Unmitigated

Land Use	Indoor Wat	Outdoor Water (gal/year)
Medical Off	22812362	1
Free-Stand	1970329	1
Day-Care C	544698	1
Fast Food R	16223877	1
City Park	0	78204343
Hotel	253668	1
Other Asph	0	1
Parking Lot	0	1

5.12.2. Mitigated

Land Use	Indoor Wat	Outdoor Water (gal/year)
Medical Off	22812362	1
Free-Stand	1970329	1
Day-Care C	544698	1
Fast Food R	16223877	1
City Park	0	78204343
Hotel	253668	1
Other Asph	0	1
Parking Lot	0	1

5.13. Operational Waste Generation
5.13.1. Unmitigated

Land Use	Waste (ton	Cogeneration (kWh/year)
General Off	169	
Free-Stand	114	
Day-Care C	16.5	
Fast Food R	616	
City Park	1.29	
Hotel	5.47	
Other Asph	0	
Parking Lot	0	

5.13.2. Mitigated

Land Use	Waste (ton	Cogeneration (kWh/year)
General Off	169	
Free-Stand	114	
Day-Care C	16.5	
Fast Food R	616	
City Park	1.29	
Hotel	5.47	
Other Asph	0	
Parking Lot	0	

5.14. Operational Refrigeration and Air Conditioning Equipment
5.14.1. Unmitigated

Land Use	Equipment	Refrigerant	GWP	Quantity (k	Operations	Service Lea	Times Serviced
General Off	Household	R-134a	1430	0.02	0.6	0	1
General Off	Other comm	R-410A	2088	< 0.005	4	4	18
Free-Stand	Other comm	R-410A	2088	< 0.005	4	4	18
Free-Stand	Stand-alone	R-134a	1430	0.04	1	0	1
Day-Care C	Household	R-134a	1430	0.02	0.6	0	1
Day-Care C	Other comm	R-410A	2088	< 0.005	4	4	18
Day-Care C	Stand-alone	R-134a	1430	< 0.005	1	0	1
Day-Care C	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
Fast Food R	Household	R-134a	1430	0	0.6	0	1
Fast Food R	Other comm	R-410A	2088	1.8	4	4	18
Fast Food R	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
City Park	Other comm	R-410A	2088	< 0.005	4	4	18
City Park	Stand-alone	R-134a	1430	0.04	1	0	1
Hotel	Household	R-134a	1430	0	0.6	0	1
Hotel	Other comm	R-410A	2088	1.8	4	4	18
Hotel	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20

5.14.2. Mitigated

Land Use	Equipment	Refrigerant	GWP	Quantity (k	Operations	Service Lea	Times Serviced
General Off	Household	R-134a	1430	0.02	0.6	0	1
General Off	Other comm	R-410A	2088	< 0.005	4	4	18
Free-Stand	Other comm	R-410A	2088	< 0.005	4	4	18
Free-Stand	Stand-alone	R-134a	1430	0.04	1	0	1
Day-Care C	Household	R-134a	1430	0.02	0.6	0	1
Day-Care C	Other comm	R-410A	2088	< 0.005	4	4	18
Day-Care C	Stand-alone	R-134a	1430	< 0.005	1	0	1
Day-Care C	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
Fast Food R	Household	R-134a	1430	0	0.6	0	1
Fast Food R	Other comm	R-410A	2088	1.8	4	4	18
Fast Food R	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20
City Park	Other comm	R-410A	2088	< 0.005	4	4	18
City Park	Stand-alone	R-134a	1430	0.04	1	0	1
Hotel	Household	R-134a	1430	0	0.6	0	1

Hotel	Other comi	R-410A	2088	1.8	4	4	18
Hotel	Walk-in ref	R-404A	3922	< 0.005	7.5	7.5	20

5.15. Operational Off-Road Equipment
5.15.1. Unmitigated

Equipment Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepowe	Load Factor

5.15.2. Mitigated

Equipment Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepowe	Load Factor

5.16. Stationary Sources
5.16.1. Emergency Generators and Fire Pumps

Equipment Fuel Type	Number pe	Hours per I	Hours per \	Horsepowe	Load Factor

5.16.2. Process Boilers

Equipment Fuel Type	Number	Boiler Ratir	Daily Heat	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Fuel Type

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1.2. Mitigated

Vegetation	Vegetation	Initial Acre	Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated

Biomass Co	Initial Acre	Final Acres

5.18.1.2. Mitigated

Biomass Co	Initial Acre	Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

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

Climate Ha	Result for P	Unit
Temperatu	19.8	annual days of extreme heat
Extreme Pr	5	annual days with precipitation above 20 mm
Sea Level R	0	meters of inundation depth
Wildfire	0	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 Ha	Exposure S	Sensitivity '	Adaptive Ca	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity '	Adaptive Ca	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack I	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Sit	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Waste	64.4
Sensitive Population	
Asthma	24.7
Cardio-vasc	32
Low Birth W	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployr	7.77

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 Pow	60.34903
Employed	0.526113
Median Hi	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent ho	66.67522
Voting	91.95432
Neighborhood	
Alcohol ava	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc rer	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36

Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46
Healthy Pla	46
Project Loc	No
Project Loc	No
Project Loc	No

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

7.4. Health & Equity Measures

Measure Ti	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Point Max Possib	Weighted Score

7.6. Health & Equity Custom Measures

Measure Ti	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	Totals of each category from each phase
Operations	from Water Supply Assessment: Water demand = 239.7 acre-feet annually -> 78204343 gallons per year
	natural gas, fully electric project
	Retail building = 20kW array, office buildings = 14 kW array, total solar output = 54,174 kWh/year (in mitigation section)
	applied retail output to free standing discount and office
Operations	building
Operations	no architectural coating needed
Operations	Zoo
Operations	10,964,600 Net VMT change

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e	Phases
2025	1.17	1.05	10.67	51.90	0.09	0.20	27.22	27.38	0.20	13.61	13.77	0.00	520.00	520.00	0.03	0.02	0.09	524.00	1A, 1B
2026	0.99	0.82	9.85	28.90	0.06	0.16	0.75	0.91	0.16	0.19	0.34	0.00	845.00	845.00	0.04	0.04	0.28	858.00	1A, 1B
2027	0.97	0.81	9.70	28.70	0.06	0.16	0.75	0.91	0.16	0.19	0.34	0.00	839.00	839.00	0.04	0.03	0.25	851.00	1A, 1B
2028	0.94	52.94	9.54	28.10	0.06	0.16	0.85	0.98	0.16	0.21	0.34	0.00	420.20	420.20	#VALUE!	#VALUE!	0.12	427.90	1A, 1B
2029	0.62	0.61	6.78	28.90	0.05	0.10	19.80	19.90	0.10	10.10	10.20	0.00	404.00	404.00	0.02	0.01	0.03	406.00	1B, 1C
2030	0.39	0.36	2.99	15.20	0.02	0.08	0.11	0.19	0.07	0.03	0.10	0.00	365.00	365.00	0.01	0.01	0.02	367.00	1C
2031	0.38	0.35	2.98	15.20	0.02	0.07	0.11	0.19	0.07	0.03	0.10	0.00	364.00	364.00	0.01	< 0.005	0.02	366.00	1C
2032	0.38	0.35	2.96	15.20	0.02	0.07	0.20	0.25	0.07	0.05	0.10	0.00	238.00	238.00	0.01	< 0.005	0.02	239.00	1C
2033	3.17	2.67	21.20	24.90	0.05	0.86	19.80	20.70	0.79	10.10	10.90	0.00	398.00	398.00	0.02	0.01	0.03	401.00	1C, 2
2034	1.08	7.52	7.76	13.40	0.02	0.19	0.20	0.39	0.18	0.05	0.23	0.00	313.00	313.00	0.01	< 0.005	0.02	315.00	2
2035	1.43	1.20	9.31	15.30	0.03	0.33	5.43	5.76	0.30	2.60	2.90	0.00	196.00	196.00	0.01	0.01	0.01	197.00	3
2036	0.46	0.39	3.34	6.87	0.01	0.08	0.05	0.13	0.07	0.01	0.08	0.00	195.00	195.00	0.01	0.01	0.01	196.00	3
2037	0.45	0.38	3.26	6.81	0.01	0.07	0.05	0.12	0.07	0.01	0.08	0.00	194.00	194.00	0.01	0.01	0.01	195.00	3
2038	0.45	0.38	3.21	6.79	0.01	0.07	0.05	0.12	0.06	0.01	0.08	0.00	194.00	194.00	0.01	0.01	0.01	195.00	3
2039	0.49	1.16	3.52	6.75	0.01	0.09	0.18	0.26	0.08	0.04	0.12	0.00	143.00	143.00	0.01	0.01	0.01	144.00	3
2040	2.61	2.20	16.00	20.20	0.05	0.58	19.80	20.40	0.53	10.10	10.70	0.00	443.00	443.00	0.02	0.01	0.01	446.00	4
2041	1.01	0.84	6.94	13.20	0.03	0.14	0.32	0.46	0.13	0.08	0.21	0.00	396.00	396.00	0.02	0.01	0.01	399.00	4
2042	1.01	7.76	6.89	13.10	0.03	0.14	0.32	0.45	0.13	0.08	0.20	0.00	288.00	288.00	0.01	0.01	0.01	290.00	4
MAX		**3.17**	**52.94**	**21.20**	**51.90**	**0.09**	**0.86**	**27.22**	**27.38**	**0.79**	**13.61**	**13.77**	**0.00**	**845.00**	**845.00**	**#VALUE!**	**#VALUE!**	**0.28**	**858.00**	
Total		**18.00**	**81.79**	**136.90**	**339.42**	**0.63**	**3.55**	**95.99**	**99.50**	**3.33**	**47.49**	**50.79**	**0.00**	**6755.20**	**6755.20**	**#VALUE!**	**#VALUE!**	**0.94**	**6816.90**	
SMAQMD Threshold	**None**		**65**	**85**	**None**	**None**	**None**	**None**	**0/82**			**0/82**							**1100**	
Exceeds?	**NA**		**NO**	**NO**					**NO**			**NO**						**NO**	
NOTE: All v		0																	

Per Appendix G of the CEQA Guidelines and SMAQMD recommendations, the project's impact to air quality is considered significant if it would do any of the following:

Conflict with or obstruct implementation of the applicable air quality plan;
Construction-generated criteria air pollutant or precursor emissions to exceed SMAQMD-recommended thresholds of 85 lb/day for NO *X* , 0 lb/day of PM*10* , and 0 lb/day of PM*2.5* . As noted in SMAQMD's recommended significance thresholds, if all feasible "Best Management Practices" (BMPs), as defined by SMAQMD, for controlling construction emissions are applied, the applicable threshold would be 80 lb/day and 14.6 tons/year for PM *10* , and 82 lb/day and 15 tons/year for PM*2.5* ;
A net increase in long-term operational criteria air pollutant or precursor emissions that exceed the SMAQMD-recommended thresholds of 65 lb/day for ROG and NO *X* , 0 lb/day of PM*10* , and 0 lb/day of PM*2.5* . If all feasible BMPs, as defined by SMAQMD, for controlling operational phase emissions are applied, the applicable threshold would be 80 lb/day and 14.6 tons/year for PM *10* , and 82 lb/day and 15 tons/year for PM*2.5* ;
Expose sensitive receptors to a substantial pollutant concentrations, which could include an incremental increase in TAC emissions that exceed 10 in one million for carcinogenic risk (i.e., the risk of contracting cancer) and/or a noncarcinogenic hazard index of 1.0 or greater; and/or
Create objectionable odors affecting a substantial number of people

AQ Report Table

Year	ROG	NOx	CO	SOx	PM10	PM2.5
2025	1.05	10.67	51.90	0.09	27.38	13.77
2026	0.82	9.85	28.90	0.06	0.91	0.34
2027	0.81	9.70	28.70	0.06	0.91	0.34
2028	52.94	9.54	28.10	0.06	0.98	0.34
2029	0.61	6.78	28.90	0.05	19.90	10.20
2030	0.36	2.99	15.20	0.02	0.19	0.10
2031	0.35	2.98	15.20	0.02	0.19	0.10
2032	0.35	2.96	15.20	0.02	0.25	0.10
2033	2.67	21.20	24.90	0.05	20.70	10.90
2034	7.52	7.76	13.40	0.02	0.39	0.23
2035	1.20	9.31	15.30	0.03	5.76	2.90
2036	0.39	3.34	6.87	0.01	0.13	0.08
2037	0.38	3.26	6.81	0.01	0.12	0.08
2038	0.38	3.21	6.79	0.01	0.12	0.08
2039	1.16	3.52	6.75	0.01	0.26	0.12
2040	2.20	16.00	20.20	0.05	20.40	10.70
2041	0.84	6.94	13.20	0.03	0.46	0.21
2042	7.76	6.89	13.10	0.03	0.45	0.20
MAX	**52.94**	**21.20**	**51.90**	**0.09**	**27.38**	**13.77**
Threshold	**65.00**	**85.00**	**-**	**-**	**0/82**	**0/82**
Exceeds?	**NO**	**NO**	**0.00**	**0.00**	**NO**	**NO**

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Na	Elk Grove Zoo Phase 1
Constructic	6/1/2025
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	8675 Kammerer Rd, Elk Grove, CA 95757, USA
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
General Of	4.7	1000sqft	0.11	4700				guest services/ticketing
Free-Stand	10	1000sqft	0.23	10000				retail building
Health Clul	0.5	1000sqft	0.01	500				educational entry restroom
High Turno	12	1000sqft	0.28	12000				giraffe cafe
Other Non-	4.8	1000sqft	0.11	0				concrete pad
City Park	0.01	Acre	0.01	0				dwarf mongoose
City Park	0.06	Acre	0.06	0				giraffe feeding shelter
City Park	0.04	Acre	0.04	0				carousel shelter
Free-Stand	1	1000sqft	0.02	1000				train station and tickets
Health Clul	1	1000sqft	0.02	1000				multipurpose room 1
City Park	0.2	Acre	0.2	0				flamingo aviary
City Park	0.53	Acre	0.53	0				gelada
City Park	0.06	Acre	0.06	0				thick billed parrot
City Park	0.28	Acre	0.28	0				okapi
Medical Of	9	1000sqft	0.21	9000				animal care quaters
Day-Care C	1	1000sqft	0.02	1000				educational building 1
Day-Care C	1	1000sqft	0.02	1000				educational building 2
Day-Care C	1	1000sqft	0.02	1000				educational building 3
Health Clul	0.8	1000sqft	0.02	800				restrooms
City Park	0.01	Acre	0.01	0				hay, Browse, Fodder storage
Fast Food F	0.25	1000sqft	0.01	250				beer garden 1
Fast Food F	0.25	1000sqft	0.01	250				beer garden 2
City Park	0.51	Acre	0.51	0				Lion
City Park	1.2	Acre	1.2	0				Savanna West
City Park	1.81	Acre	1.81	0				Savanna East
City Park	0.65	Acre	0.65	0				Rhino
City Park	0.34	Acre	0.34	0				Cheetah
City Park	0.01	Acre	0.01	0				African Small Mammal
Medical Of	25.5	1000sqft	0.59	25500				Animal Care Quarters
High Turno	3.2	1000sqft	0.07	3200				Gelada Cafe
Hospital	21	1000sqft	0.48	21000				Animal Care Center
City Park	0.07	Acre	0.07	0				viewing area
Automobili	8.7	1000sqft	0.2	8700				maintenance shed/shops
Parking Lot	500	Space	4.5	0				north lot
Parking Lot	700	Space	6.3	0				south lot
Health Clul	1	1000sqft	0.02	1000				multipurpose room 2
Health Clul	1	1000sqft	0.02	1000				multipurpose room 3
City Park	0.03	Acre	0.03	0				Meerkat
Health Clul	1	1000sqft	0.02	1000				Guest Restrooms

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	0.73		52.1	4.55	36.6	0.06	0.12	19.8	19.9	0.12	10.1	10.2		6826	6826	0.27	0.11	2.83	6852
Daily, Winter (Max)																			
Unmit.	0.55		0.78	3.91	16.7	0.03	0.08	0.49	0.57	0.08	0.12	0.2		3249	3249	0.14	0.11	0.07	3285
Average Daily (Max)																			
Unmit.	0.46		7.14	3.26	14.3	0.02	0.07	3.32	3.37	0.07	1.44	1.49		2778	2778	0.12	0.09	0.95	2809
Annual (Max)																			
Unmit.	0.08		1.3	0.6	2.6	< 0.005		0.01	0.61	0.61	0.01	0.26	0.27	460	460	0.02	0.02	0.16	465

2.3 Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2025	0.73	0.72	4.55	36.6	0.06	0.12	19.8	19.9	0.12	10.1	10.2		6826	6826	0.27	0.11	2.83	6852
2026	0.56	0.49	3.75	17.2	0.03	0.08	0.49	0.57	0.08	0.12	0.2		3277	3277	0.13	0.11	2.58	3314
2027	0.54	0.48	3.69	17	0.03	0.08	0.49	0.57	0.08	0.12	0.2		3258	3258	0.13	0.1	2.33	3294
2028	0.22	52.1	1.97	11.3	0.01	0.03	0.15	0.18	0.03	0.04	0.06		1672	1672	0.06	0.01	0.49	1678
Daily - Winter (Max)																		
2025	0.55	0.48	3.91	16.7	0.03	0.08	0.49	0.57	0.08	0.12	0.2		3249	3249	0.14	0.11	0.07	3285
2026	0.53	0.48	3.83	16.6	0.03	0.08	0.49	0.57	0.08	0.12	0.2		3232	3232	0.14	0.11	0.07	3267
2027	0.53	0.46	3.77	16.5	0.03	0.08	0.49	0.57	0.08	0.12	0.2		3215	3215	0.13	0.1	0.06	3249
2028	0.52	0.78	3.7	16.4	0.03	0.08	0.49	0.57	0.08	0.12	0.2		3196	3196	0.13	0.1	0.05	3230
Average Daily																		
2025	0.31	0.29	2	13.2	0.02	0.05	3.32	3.37	0.05	1.44	1.49		2504	2504	0.1	0.04	0.38	2519
2026	0.46	0.41	3.26	14.3	0.02	0.07	0.41	0.48	0.07	0.1	0.17		2778	2778	0.12	0.09	0.95	2809
2027	0.45	0.39	3.21	14.2	0.02	0.07	0.41	0.48	0.07	0.1	0.17		2763	2763	0.11	0.09	0.86	2793
2028	0.08	7.14	0.7	3.21	< 0.005		0.01	0.07	0.09	0.01	0.02	0.03		551	551	0.02	0.01	0.13	555
Annual																		
2025	0.06	0.05	0.36	2.41	< 0.005		0.01	0.61	0.61	0.01	0.26	0.27		415	415	0.02	0.01	0.06	417
2026	0.08	0.07	0.6	2.6	< 0.005		0.01	0.07	0.09	0.01	0.02	0.03		460	460	0.02	0.02	0.16	465
2027	0.08	0.07	0.59	2.59	< 0.005		0.01	0.07	0.09	0.01	0.02	0.03		457	457	0.02	0.01	0.14	462
2028	0.02	1.3	0.13	0.59	< 0.005	< 0.005		0.01	0.02	< 0.005	< 0.005	0.01		91.2	91.2	< 0.005	< 0.005	0.02	91.9

LBS/DAY

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2025 max	0.73	0.72	4.55	36.6	0.06	0.12	19.8	19.9	0.12	10.1	10.2	0	415	415	0.02	0.01	0.06	417
2026 max	0.56	0.49	3.83	17.2	0.03	0.08	0.49	0.57	0.08	0.12	0.2	0	460	460	0.02	0.02	0.16	465
2027 max	0.54	0.48	3.77	17	0.03	0.08	0.49	0.57	0.08	0.12	0.2	0	457	457	0.02	0.01	0.14	462
2028 max	0.52	52.1	3.7	16.4	0.03	0.08	0.49	0.57	0.08	0.12	0.2	0	91.2	91.2	< 0.005	< 0.005	0.02	91.9

	Gasoline	Diesel
2025	23.25	845.68
2026	52	412.7
2027	51.1	411
2028	10.35	81.56

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.36	0.36	4.51	18.2	0.03	0.06		0.06	0.06		0.06		3425	3425	0.14	0.03		3437
Demolition								0	0		0	0						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	< 0.005	< 0.005		0.04	0.15	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	28.2	28.2	< 0.005	< 0.005		28.2
Demolition								0	0		0	0						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005		0.01	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	4.66	4.66	< 0.005	< 0.005		4.68
Demolition								0	0		0	0						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.06	0.04	0.9	0	0	0.15	0.15	0	0.04	0.04		170	170	< 0.005		0.01	0.65	173
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005		0.01	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005		1.28	1.28	< 0.005	< 0.005	< 0.005		1.29
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005		0	0	< 0.005	< 0.005		0	< 0.005	< 0.005		0.21	0.21	< 0.005	< 0.005	< 0.005		0.21
Vendor	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.3. Site Preparation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.5	0.5	2.59	28.3	0.05	0.1		0.1	0.1		0.1		5295	5295	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.03	0.03	0.17	1.86	< 0.005		0.01	0.01	0.01		0.01		348	348	0.01	< 0.005		349
Dust From Material Movement							1.29	1.29		0.66	0.66							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.03	0.34	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		57.6	57.6	< 0.005	< 0.005		57.8

Dust From Material Movement									0.24	0.24		0.12	0.12										
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Offsite																							
Daily, Summer (Max)																							
Worker	0.08	0.07	0.05	1.05	0	0	0.18	0.18	0	0.04	0.04			199	199	< 0.005		0.01	0.76	202			
Vendor	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0			
Hauling	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	0	0	0			
Daily, Winter (Max)																							
Average Daily																							
Worker	< 0.005	< 0.005	< 0.005		0.05	0	0	0.01	0.01	0.01	0	< 0.005	< 0.005		11.9	11.9	< 0.005	< 0.005		0.02	12.1		
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0		
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0		
Annual																							
Worker	< 0.005	< 0.005	< 0.005		0.01	0	0	< 0.005	< 0.005	0	0	< 0.005	< 0.005		1.97	1.97	< 0.005	< 0.005	< 0.005		2		
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0		
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0		

3.5. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.64	0.64	4.43	35.3	0.06	0.12		0.12	0.12		0.12		6599	6599	0.27	0.05		6622
Dust From Material Movement							9.2	9.2		3.65	3.65							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.13	0.13	0.9	7.17	0.01	0.03		0.03	0.03		0.03		1338	1338	0.05	0.01		1342
Dust From Material Movement							1.87	1.87		0.74	0.74							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.02	0.16	1.31	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		221	221	0.01	< 0.005		222
Dust From Material Movement							0.34	0.34		0.14	0.14							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.09	0.08	0.06	1.21	0	0	0.2	0.2	0	0.05	0.05		227	227	< 0.005		0.01	0.87	230
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.02	0.02	0.01	0.18	0	0	0.04	0.04	0	0.01	0.01		41.9	41.9	< 0.005	< 0.005		0.08	42.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005		0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		6.94	6.94	< 0.005	< 0.005		0.01	7.04
Vendor	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.35	0.33	2.82	14.8	0.02	0.08		0.08	0.07		0.07		2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.35	0.33	2.82	14.8	0.02	0.08		0.08	0.07		0.07		2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.08	0.07	0.64	3.34	0.01	0.02		0.02	0.02		0.02		541	541	0.02	< 0.005		542
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.12	0.61	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		89.5	89.5	< 0.005	< 0.005		89.8
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.16	0.15	0.1	2.15	0	0	0.36	0.36	0	0.08	0.08		405	405	0.01	0.01	1.55	411
Vendor	0.05	0.02	0.89	0.33	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		493	493	0.03	0.07	1.28	516
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.15	0.13	0.13	1.58	0	0	0.36	0.36	0	0.08	0.08		359	359	0.01	0.01	0.04	364
Vendor	0.05	0.02	0.95	0.34	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		492	492	0.03	0.07	0.03	515
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.03	0.03	0.03	0.36	0	0	0.08	0.08	0	0.02	0.02		83.1	83.1	< 0.005	< 0.005	0.15	84.3
Vendor	0.01	< 0.005	0.21	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		111	111	0.01	0.02	0.12	116
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	< 0.005	0.07	0	0	0.01	0.01	0	< 0.005	< 0.005		13.8	13.8	< 0.005	< 0.005	0.03	14
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		18.4	18.4	< 0.005	< 0.005	0.02	19.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.35	0.33	2.82	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.35	0.33	2.82	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.3	0.28	2.42	12.7	0.02	0.06		0.06	0.06		0.06		2055	2055	0.08	0.02		2062
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.05	0.05	0.44	2.32	< 0.005		0.01		0.01	0.01		0.01	340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.16	0.14	0.09	2.01	0	0	0.36	0.36	0	0.08	0.08		397	397	0.01	0.01	1.42	402
Vendor	0.05	0.02	0.83	0.32	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		483	483	0.03	0.07	1.16	506
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.13	0.13	0.12	1.48	0	0	0.36	0.36	0	0.08	0.08		352	352	0.01	0.01	0.04	357
Vendor	0.05	0.02	0.89	0.32	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		482	482	0.03	0.07	0.03	505
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.11	0.11	0.09	1.29	0	0	0.3	0.3	0	0.07	0.07		310	310	0.01	0.01	0.52	314
Vendor	0.04	0.01	0.75	0.28	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		414	414	0.03	0.06	0.43	433
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.02	0.24	0	0	0.06	0.06	0	0.01	0.01		51.3	51.3	< 0.005	< 0.005	0.09	52
Vendor	0.01	< 0.005	0.14	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		68.5	68.5	< 0.005	0.01	0.07	71.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.35	0.33	2.82	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.35	0.33	2.82	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.3	0.28	2.41	12.7	0.02	0.06		0.06	0.06		0.06		2055	2055	0.08	0.02		2062
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.05	0.05	0.44	2.32	< 0.005		0.01		0.01	0.01		0.01	340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.14	0.14	0.09	1.89	0	0	0.36	0.36	0	0.08	0.08		390	390	0.01	0.01	1.29	395
Vendor	0.05	0.02	0.78	0.31	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		472	472	0.03	0.07	1.04	494
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.13	0.11	0.12	1.39	0	0	0.36	0.36	0	0.08	0.08		346	346	0.01	0.01	0.03	351
Vendor	0.05	0.02	0.84	0.31	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		472	472	0.03	0.07	0.03	493
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.11	0.1	0.09	1.22	0	0	0.3	0.3	0	0.07	0.07		304	304	0.01	0.01	0.48	309
Vendor	0.04	0.01	0.7	0.26	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		404	404	0.02	0.06	0.39	423
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.02	0.22	0	0	0.06	0.06	0	0.01	0.01		50.4	50.4	< 0.005	< 0.005	0.08	51.1

Vendor	0.01	< 0.005		0.13	0.05	< 0.005	< 0.005		0.02	0.02	< 0.005		0.01	0.01		66.9	66.9	< 0.005		0.01	0.06	70
Hauling	0	0		0	0	0	0		0	0	0		0	0		0	0	0		0	0	0

3.13. Building Construction (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07			0.07	0.07			0.07	2397	2397	0.1	0.02	2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.03	0.03	0.26	1.39	< 0.005		0.01		0.01	0.01			0.01	225	225	0.01	< 0.005	226
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.05	0.25	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005			37.3	37.3	< 0.005	< 0.005	37.4
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.12	0.11	0.1	1.31	0	0	0.36	0.36	0	0.08	0.08			339	339	0.01	0.01	0.03	344
Vendor	0.05	0.02	0.78	0.3	< 0.005		0.01	0.13	0.14	0.01	0.03	0.04		459	459	0.03	0.07	0.02	480
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.13	0	0	0.03	0.03	0	0.01	0.01			32.7	32.7	< 0.005	< 0.005	0.05	33.1
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005			43.1	43.1	< 0.005	0.01	0.04	45.2
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005			5.41	5.41	< 0.005	< 0.005	0.01	5.48
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005			7.14	7.14	< 0.005	< 0.005	0.01	7.48
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.15. Paving (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.16	0.16	1.93	10.6	0.01	0.03			0.03	0.03			0.03	1511	1511	0.06	0.01	1516
Paving		0.58																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.16	0.16	1.93	10.6	0.01	0.03			0.03	0.03			0.03	1511	1511	0.06	0.01	1516
Paving		0.58																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.02	0.02	0.26	1.42	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005			203	203	0.01	< 0.005		204
Paving		0.08																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005	0.05	0.26	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005			33.6	33.6	< 0.005	< 0.005		33.7
Paving		0.01																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.05	0.03	0.75	0	0	0.15	0.15	0	0.04	0.04			161	161	< 0.005	< 0.005	0.49	161
Vendor	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.05	0.04	0.55	0	0	0.15	0.15	0	0.04	0.04			143	143	< 0.005	0.01	0.01	145
Vendor	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.08	0	0	0.02	0.02	0	< 0.005	< 0.005			19.7	19.7	< 0.005	< 0.005	0.03	19.9
Vendor	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005			3.25	3.25	< 0.005	< 0.005	< 0.005	3.3
Vendor	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.17. Architectural Coating (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.02	0.02	0.65	0.96	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005			134	134	0.01	< 0.005		134
Architectural Coatings		52																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	< 0.005	< 0.005		0.09	0.13	< 0.005	< 0.005		< 0.005	< 0.005			< 0.005	17.9	17.9	< 0.005	< 0.005		18
Architectural Coatings		6.98																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005		0.02	0.02	< 0.005	< 0.005		< 0.005	< 0.005			< 0.005	2.97	2.97	< 0.005	< 0.005		2.98
Architectural Coatings		1.27																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.02	0.02	0.36	0	0	0.07	0.07	0	0.02	0.02			76.3	76.3	< 0.005	< 0.005	0.23	76.7
Vendor	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005			9.34	9.34	< 0.005	< 0.005	0.01	9.47
Vendor	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005			1.55	1.55	< 0.005	< 0.005	< 0.005	1.57
Vendor	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Demolition	Demolition	6/1/2025	6/4/2025	6	3	
Site Prepar	Site Prepar	6/5/2025	7/2/2025	6	24	
Grading	Grading	7/3/2025	9/26/2025	6	74	
Building Co	Building Co	9/27/2025	2/9/2028	6	742	
Paving	Paving	2/10/2028	4/6/2028	6	49	
Architectur	Architectur	4/7/2028	6/2/2028	6	49	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per	Horsepowe	Load Factor
Demolition	Rubber Tir	Diesel	Average	2	8	367	0.4
Demolition	Excavators	Diesel	Average	3	8	36	0.38
Demolition	Concrete/I	Diesel	Average	1	8	33	0.73
Site Prepar	Rubber Tir	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Tractors/Lc	Diesel	Average	2	8	84	0.37
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Rubber Tir	Diesel	Average	1	8	367	0.4
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator	Diesel	Average	1	8	14	0.74
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lc	Diesel	Average	3	7	84	0.37
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way Tri	Miles per Trip	Vehicle Mix
Demolition				
Demolition	Worker	15	14.3	LDA,LDT1,LDT2
Demolition	Vendor		8.8	HHDT,MHDT
Demolition	Hauling	0	20	HHDT
Demolition	Onsite truck			HHDT
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	20	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	28.5	14.3	LDA,LDT1,LDT2
Building Co	Vendor	14.1	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	5.7	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential E	Non-Residenti	Non-Residi	Parking Area Coated (sq ft)
Architectur	0	0	505448	168483	28743

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material In	Material Exp	Acres Graded	Material Di	Acres Paved (acres)
Demolition	0	0	0		
Site Preparation			36	0	
Grading			222	0	
Paving	0	0	0	0	11

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reduc	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
General Of	0	0
Free-Stand	0	0
Health Clul	0	0
High Turno	0	0
Other Non-	0.2	0
City Park	0	0
City Park	0	0
City Park	0	0
Free-Stand	0	0
Health Clul	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Of	0	0
Day-Care C	0	0
Day-Care C	0	0
Day-Care C	0	0
Health Clul	0	0
City Park	0	0
Fast Food F	0	0
Fast Food F	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Of	0	0
High Turno	0	0
Hospital	0	0
City Park	0	0
Automobili	0	0
Health Clul	0	0
Parking Lot	4.5	100
Parking Lot	6.3	100

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Yr	CO2	CH4	N2O
2025	0	295	0.01 < 0.005	
2026	0	279	0.01 < 0.005	
2027	0	267	0.01 < 0.005	
2028	0	253	0.01 < 0.005	

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Ha	Result for ITJnit
Temperatu	21.2 annual days of extreme heat
Extreme Pr	4.1 annual days with precipitation above 20 mm
Sea Level R	0 meters of inundation depth
Wildfire	0 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 m

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 m

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 (MIROCS). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164

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 (MIROCS). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7

6.2. Initial Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Capa	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	1	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Capa	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	1	1	1	2
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Si	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Waste	64.4
Sensitive Population	
Asthma	24.7
Cardio-vasc	32
Low Birth V	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployr	7.77

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 Pov	60.34903
Employed	0.526113
Median HI	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent ho	66.67522
Voting	91.95432
Neighborhood	
Alcohol avc	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc ren	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46
Healthy Pla	46
Project Loc	No
Project Loc	No
Project Loc	No

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

7.4. Health & Equity Measures

Measure T	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Points	Max Possible P	Weighted Score

7.6. Health & Equity Custom Measures

Measure T	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	project description
	6 days per week, 36 month buildout
Constructio	
Operations	3,554,820 Gallons/year for the exhibits
Operations	3,554,820 Gallons/year for the exhibits

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 1B
Constructic	########
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.37848728111305, -121.38836479575[illegible]
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
City Park	0.06	Acre	0.06	0	2500	2500		Alligator
City Park	0.05	Acre	0.05	0	3100	3100		Squirrel Monkey
City Park	0.12	Acre	0.12	0	5100	5100		Lemur
City Park	0.34	Acre	0.34	0	15000	15000		Africa Aviary (birds)
City Park	0.25	Acre	0.25	0	7500	7500		Africa Aviary (okapi area)
City Park	0.08	Acre	0.08	0	3200	3200		Colobus Monkey
City Park	0.13	Acre	0.13	0	5800	5800		Giant Tortoise
Medical Of	7.8	1000sqft	0.18	5130				Animal Care Quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	0.43	0.33	5.9	11.7	0.03	0.08	0.36	0.41	0.08	0.09	0.14		2716	2716	0.16	0.16	1.9	2769
Daily, Winter (Max)																		
Unmit.	0.44	0.34	6.12	15.3	0.03	0.08	7.42	7.48	0.08	3.51	3.57		3449	3449	0.19	0.17	0.06	3503
Average Daily (Max)																		
Unmit.	0.37	0.33	5.13	10	0.02	0.07	0.56	0.58	0.07	0.26	0.27		2326	2326	0.13	0.14	0.7	2371
Annual (Max)																		
Unmit.	0.07	0.06	0.94	1.83	< 0.005	0.01	0.1	0.11	0.01	0.05	0.05		385	385	0.02	0.02	0.12	393

2.3 Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2026	0.43	0.33	5.9	11.7	0.03	0.08	0.26	0.34	0.08	0.07	0.14		2716	2716	0.16	0.16	1.89	2769
2027	0.43	0.33	5.81	11.7	0.03	0.08	0.26	0.34	0.08	0.07	0.14		2694	2694	0.15	0.15	1.74	2745
2028	0.42	0.33	5.73	11.7	0.03	0.08	0.36	0.41	0.08	0.09	0.14		2670	2670	0.14	0.15	1.9	2719
Daily - Winter (Max)																		
2025	0.44	0.33	6.12	15.3	0.03	0.08	7.42	7.48	0.08	3.51	3.57		3449	3449	0.19	0.17	0.06	3503
2026	0.43	0.33	6.02	11.7	0.03	0.08	0.26	0.34	0.08	0.07	0.14		2713	2713	0.16	0.16	0.05	2765
2027	0.43	0.33	5.93	11.7	0.03	0.08	0.26	0.34	0.08	0.07	0.14		2692	2692	0.15	0.15	0.05	2741
2028	0.42	0.84	5.84	11.6	0.03	0.08	0.36	0.41	0.08	0.09	0.14		2668	2668	0.14	0.15	0.05	2716
Average Daily																		
2025	0.09	0.07	1.08	2.75	0.01	0.02	0.56	0.58	0.02	0.26	0.27		637	637	0.04	0.04	0.2	648
2026	0.37	0.28	5.13	10	0.02	0.07	0.22	0.29	0.07	0.06	0.12		2326	2326	0.13	0.14	0.7	2371
2027	0.37	0.28	5.05	10	0.02	0.07	0.22	0.28	0.07	0.06	0.12		2308	2308	0.13	0.13	0.64	2351
2028	0.31	0.33	4.14	8.28	0.02	0.06	0.23	0.28	0.05	0.06	0.11		1988	1988	0.11	0.13	0.6	2028
Annual																		
2025	0.02	0.01	0.2	0.5	< 0.005	< 0.005	0.1	0.11	< 0.005	0.05	0.05		105	105	0.01	0.01	0.03	107
2026	0.07	0.05	0.94	1.83	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02		385	385	0.02	0.02	0.12	393
2027	0.07	0.05	0.92	1.83	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02		382	382	0.02	0.02	0.11	389
2028	0.06	0.06	0.76	1.51	< 0.005	0.01	0.04	0.05	0.01	0.01	0.02		329	329	0.02	0.02	0.1	336

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2025 max	0.44	0.33	6.12	15.3	0.03	0.08	7.42	7.48	0.08	3.51	3.57	0	105	105	0.01	0.01	0.03	107
2026 max	0.43	0.33	6.02	11.7	0.03	0.08	0.26	0.34	0.08	0.07	0.14	0	385	385	0.02	0.02	0.12	393
2027 max	0.43	0.33	5.93	11.7	0.03	0.08	0.26	0.34	0.08	0.07	0.14	0	382	382	0.02	0.02	0.11	389
2028 max	0.42	0.84	5.84	11.7	0.03	0.08	0.36	0.41	0.08	0.09	0.14	0	329	329	0.02	0.02	0.1	336

	Gasoline	Diesel
2025	1.59	105.77
2026	2.4	389.54
2027	2.35	386.46
2028	4.23	331.93

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.19		1.01	11.9	0.02	0.04		0.04	0.04		0.04		2065	2065	0.08	0.02		2072
Dust From Material Movement							6.27	6.27		3	3							
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	< 0.005		< 0.005	0.02	0.29	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005		50.9	50.9	< 0.005	< 0.005		51.1
Dust From Material Movement							0.15	0.15		0.07	0.07							
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005		< 0.005	0.05	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005		8.43	8.43	< 0.005	< 0.005		8.46
Dust From Material Movement							0.03	0.03		0.01	0.01							
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.03		0.03	0.03	0.33	0	0	0.08	0.08	0	0.02	0.02		75.6	75.6	< 0.005	< 0.005	0.01	76.5
Vendor	0		0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.11		0.02	1.74	0.63	0.01	0.02	0.23	0.25	0.02	0.06	0.08		897	897	0.09	0.14	0.05	942
Average Daily																		
Worker	< 0.005		< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0		0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005		< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		22.1	22.1	< 0.005	< 0.005	0.02	23.2
Annual																		
Worker	< 0.005		< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	0		0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005		< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.66	3.66	< 0.005	< 0.005	< 0.005	3.85

3.3. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.23		1.2	14.2	0.02	0.05		0.05	0.05		0.05		2455	2455	0.1	0.02		2463
Dust From Material Movement							7.09	7.09		3.43	3.43							
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.01		0.01	0.06	0.7	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005		121	121	< 0.005	< 0.005		121
Dust From Material Movement							0.35	0.35		0.17	0.17							
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005		< 0.005	0.01	0.13	< 0.005	< 0.005	< 0.005	< 0.005		< 0.005		20	20	< 0.005	< 0.005		20.1
Dust From Material Movement							0.06	0.06		0.03	0.03							
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04		0.04	0.04	0.44	0	0	0.1	0.1	0	0.02	0.02		101	101	< 0.005	< 0.005	0.01	102
Vendor	0		0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.11		0.02	1.73	0.63	0.01	0.02	0.23	0.25	0.02	0.06	0.08		893	893	0.09	0.14	0.05	937
Average Daily																		
Worker	< 0.005		< 0.005	< 0.005	0.02	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		5.1	5.1	< 0.005	< 0.005	0.01	5.17
Vendor	0		0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0.01		< 0.005	0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		44	44	< 0.005	0.01	0.04	46.3
Annual																		
Worker	< 0.005		< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.84	0.84	< 0.005	< 0.005	< 0.005	0.86
Vendor	0		0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	< 0.005		< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		7.29	7.29	< 0.005	< 0.005	0.01	7.66

3.5. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.32		0.3	4.34	11	0.02	0.06		0.06	0.06		0.06		1801	1801	0.07	0.01		1807
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.05		0.04	0.62	1.58	< 0.005	0.01		0.01	0.01		0.01		258	258	0.01	< 0.005		259
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01		0.01	0.11	0.29	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		42.7	42.7	< 0.005	< 0.005		42.9
Onsite truc	0		0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01		0.01	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005		16.5	16.5	< 0.005	< 0.005	< 0.005	16.8
Vendor	< 0.005		< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		24.3	24.3	< 0.005	< 0.005	< 0.005	25.4
Hauling	0.11		0.02	1.73	0.62	0.01	0.02	0.23	0.24	0.02	0.06	0.08		892	892	0.09	0.14	0.05	936
Average Daily																		
Worker	< 0.005		< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.43	2.43	< 0.005	< 0.005	< 0.005	2.47
Vendor	< 0.005		< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		3.48	3.48	< 0.005	< 0.005	< 0.005	3.65
Hauling	0.02		< 0.005	0.24	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		128	128	0.01	0.02	0.12	134
Annual																		
Worker	< 0.005		< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.4	0.4	< 0.005	< 0.005	< 0.005	0.41

1. Basic Project Information
1.1. Basic Project Information
Data Field Value
Project Na EGZ Phase 1C
Constructi 1/1/2029
Lead Agency
Land Use S Project/site
Analysis Le County
Windspeec 3
Precipitatio 36.6
Location 38.378268508056266, -121.38767164800089
County Sacramento
City Elk Grove
Air District Sacramento Metropolitan AQMD
Air Basin Sacramento Valley
TAZ 712
EDFZ 13
Electric Uti Sacramento Municipal Utility District
Gas Utility Pacific Gas & Electric
App Versio 2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
City Park	1.17	Acre	1.17	0	51000	51000		Savanna North
City Park	0.55	Acre	0.55	0	24000	24000		Wild Dog
City Park	0.56	Acre	0.56	0	24500	24500		Hippo
City Park	0.99	Acre	0.99	0	43000	43000		African Ape
Medical Of	24.3	1000sqft	0.56	24300	24300			Animal Care Quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary
2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	0.39	0.36	2.99	15.3	0.02	0.08	0.2	0.25	0.07	0.05	0.1		2586	2586	0.1	0.04	0.43	2599
Daily, Winter (Max)																		
Unmit.	0.62	0.61	6.78	28.9	0.05	0.1	19.8	19.9	0.1	10.1	10.2		5459	5459	0.22	0.05	0.01	5480
Average Daily (Max)																		
Unmit.	0.34	0.32	2.71	14.2	0.02	0.06	1.98	2.05	0.06	0.97	1.03		2439	2439	0.1	0.03	0.16	2452
Annual (Max)																		
Unmit.	0.06	0.06	0.49	2.59	< 0.005	0.01	0.36	0.37	0.01	0.18	0.19		404	404	0.02	0.01	0.03	406

2.3 Construction Emissions by Year, Mitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2029	0.39	0.36	2.99	15.3	0.02	0.08	0.11	0.19	0.07	0.03	0.1		2586	2586	0.1	0.04	0.43	2599
2030	0.39	0.36	2.97	15.2	0.02	0.08	0.11	0.19	0.07	0.03	0.1		2581	2581	0.1	0.04	0.38	2594
2031	0.38	0.35	2.96	15.2	0.02	0.07	0.11	0.19	0.07	0.03	0.1		2576	2576	0.1	0.03	0.33	2589
2032	0.38	0.35	2.95	15.2	0.02	0.07	0.2	0.25	0.07	0.05	0.1		2571	2571	0.1	0.03	0.41	2584
Daily - Winter (Max)																		
2029	0.62	0.61	6.78	28.9	0.05	0.1	19.8	19.9	0.1	10.1	10.2		5459	5459	0.22	0.05	0.01	5480
2030	0.38	0.35	2.99	15.2	0.02	0.08	0.11	0.19	0.07	0.03	0.1		2571	2571	0.1	0.04	0.01	2585
2031	0.38	0.35	2.98	15.1	0.02	0.07	0.11	0.19	0.07	0.03	0.1		2566	2566	0.1	0.04	0.01	2580
2032	0.38	0.35	2.96	15.1	0.02	0.07	0.11	0.19	0.07	0.03	0.1		2562	2562	0.1	0.03	0.01	2574
Average Daily																		
2029	0.34	0.32	2.71	14.2	0.02	0.06	1.98	2.05	0.06	0.97	1.03		2439	2439	0.1	0.03	0.16	2452
2030	0.33	0.3	2.56	13	0.02	0.06	0.09	0.16	0.06	0.02	0.08		2206	2206	0.09	0.03	0.14	2217
2031	0.33	0.3	2.55	13	0.02	0.06	0.09	0.16	0.06	0.02	0.08		2201	2201	0.09	0.03	0.12	2213
2032	0.23	0.21	1.86	8.72	0.01	0.04	0.09	0.13	0.04	0.02	0.06		1439	1439	0.06	0.02	0.09	1445
Annual																		
2029	0.06	0.06	0.49	2.59	< 0.005	0.01	0.36	0.37	0.01	0.18	0.19		404	404	0.02	0.01	0.03	406
2030	0.06	0.06	0.47	2.37	< 0.005	0.01	0.02	0.03	0.01	< 0.005	0.02		365	365	0.01	0.01	0.02	367
2031	0.06	0.06	0.46	2.37	< 0.005	0.01	0.02	0.03	0.01	< 0.005	0.02		364	364	0.01	< 0.005	0.02	366
2032	0.04	0.04	0.34	1.59	< 0.005	0.01	0.02	0.02	0.01	< 0.005	0.01		238	238	0.01	< 0.005	0.02	239

3. Construction Emissions Details
3.1. Site Preparation (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.56	0.56	6.73	28.3	0.05	0.1		0.1	0.1		0.1		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.03	0.03	0.41	1.71	< 0.005	0.01		0.01	0.01		0.01		319	319	0.01	< 0.005		320
Dust From Material Movement							1.18	1.18		0.61	0.61							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.07	0.31	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		52.8	52.8	< 0.005	< 0.005		53
Dust From Material Movement							0.22	0.22		0.11	0.11							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.06	0.05	0.05	0.6	0	0	0.18	0.18	0	0.04	0.04		163	163	< 0.005	0.01	0.01	166
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		10.1	10.1	< 0.005	< 0.005	0.01	10.2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.67	1.67	< 0.005	< 0.005	< 0.005	1.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.29	0.29	2.04	17.8	0.03	0.06		0.06	0.06		0.06		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.03	0.03	0.2	1.75	< 0.005	0.01		0.01	0.01		0.01		292	292	0.01	< 0.005		293
Dust From Material Movement							0.7	0.7		0.34	0.34							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.04	0.32	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		48.3	48.3	< 0.005	< 0.005		48.5
Dust From Material Movement							0.13	0.13		0.06	0.06							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.05	0.04	0.04	0.52	0	0	0.15	0.15	0	0.04	0.04		140	140	< 0.005	0.01	0.01	142
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.35	2.35	< 0.005	< 0.005	< 0.005	2.38
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.24	0.23	1.97	10.4	0.02	0.05		0.05	0.05		0.05		1677	1677	0.07	0.01		1683
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.04	0.04	0.36	1.89	< 0.005	0.01		0.01	0.01		0.01		278	278	0.01	< 0.005		279
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.02	0.38	0	0	0.08	0.08	0	0.02	0.02		85.4	85.4	< 0.005	< 0.005	0.24	85.8
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		103	103	0.01	0.02	0.19	108
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.02	0.02	0.28	0	0	0.08	0.08	0	0.02	0.02		75.9	75.9	< 0.005	< 0.005	0.01	76.9
Vendor	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		103	103	0.01	0.02	< 0.005	108
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.2	0	0	0.06	0.06	0	0.01	0.01		54.5	54.5	< 0.005	< 0.005	0.07	55.2
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		72.3	72.3	< 0.005	0.01	0.06	75.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		9.02	9.02	< 0.005	< 0.005	0.01	9.14
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		12	12	< 0.005	< 0.005	0.01	12.5
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.3	0.28	2.41	12.7	0.02	0.06		0.06	0.06		0.06		2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.05	0.05	0.44	2.32	< 0.005	0.01		0.01	0.01		0.01		340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.01	0.36	0	0	0.08	0.08	0	0.02	0.02		83.9	83.9	< 0.005	< 0.005	0.21	84.3
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		99.9	99.9	0.01	0.02	0.16	105
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.27	0	0	0.08	0.08	0	0.02	0.02		74.6	74.6	< 0.005	< 0.005	0.01	75.5
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		99.9	99.9	0.01	0.02	< 0.005	105
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.02	0.23	0	0	0.07	0.07	0	0.02	0.02		65.6	65.6	< 0.005	< 0.005	0.08	65.8

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2029 max	0.62	0.61	6.78	28.9	0.05	0.1	19.8	19.9	0.1	10.1	10.2	0	404	404	0.02	0.01	0.03	406
2030 max	0.39	0.36	2.99	15.2	0.02	0.08	0.11	0.19	0.07	0.03	0.1	0	365	365	0.01	0.01	0.02	367
2031 max	0.38	0.35	2.98	15.2	0.02	0.07	0.11	0.19	0.07	0.03	0.1	0	364	364	0.01	< 0.005	0.02	366
2032 max	0.38	0.35	2.96	15.2	0.02	0.07	0.2	0.25	0.07	0.05	0.1	0	238	238	0.01	< 0.005	0.02	239

	Gasoline	Diesel
2029	13.22	393
2030	10.9	355.9
2031	10.7	355.3
2032	12.4	227.39

Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		85.6	85.6	< 0.005	0.01	0.06	89.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		10.9	10.9	< 0.005	< 0.005	0.01	10.9
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		14.2	14.2	< 0.005	< 0.005	0.01	14.9
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.3	0.28	2.41	12.7	0.02	0.06		0.06	0.06		0.06		2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.05	0.05	0.44	2.32	< 0.005	0.01		0.01	0.01		0.01		340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.01	0.34	0	0	0.08	0.08	0	0.02	0.02		82.5	82.5	< 0.005	< 0.005	0.19	82.9
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		96.2	96.2	0.01	0.01	0.14	101
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.25	0	0	0.08	0.08	0	0.02	0.02		73.4	73.4	< 0.005	< 0.005	< 0.005	74.3
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		96.2	96.2	0.01	0.01	< 0.005	101
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.22	0	0	0.07	0.07	0	0.02	0.02		64.5	64.5	< 0.005	< 0.005	0.07	64.8
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01		82.5	82.5	< 0.005	0.01	0.05	86.4
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		10.7	10.7	< 0.005	< 0.005	0.01	10.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		13.7	13.7	< 0.005	< 0.005	0.01	14.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.35	0.33	2.81	14.8	0.02	0.07		0.07	0.07		0.07		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.14	0.14	1.17	6.16	0.01	0.03		0.03	0.03		0.03		996	996	0.04	0.01		1000
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.03	0.02	0.21	1.12	< 0.005	0.01		0.01	0.01		0.01		165	165	0.01	< 0.005		166
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.01	0.32	0	0	0.08	0.08	0	0.02	0.02		81.3	81.3	< 0.005	< 0.005	0.17	81.6
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		92.6	92.6	< 0.005	0.01	0.12	97
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.24	0	0	0.08	0.08	0	0.02	0.02		72.3	72.3	< 0.005	< 0.005	< 0.005	72.5
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		92.7	92.7	< 0.005	0.01	< 0.005	96.9
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01		30.8	30.8	< 0.005	< 0.005	0.03	30.9
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		38.5	38.5	< 0.005	0.01	0.02	40.3
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		5.1	5.1	< 0.005	< 0.005	< 0.005	5.12
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.38	6.38	< 0.005	< 0.005	< 0.005	6.67
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Paving (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.23	0.21	2.14	9.35	0.01	0.05		0.05	0.05		0.05		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.05	0.05	0.47	2.08	< 0.005	0.01		0.01	0.01		0.01		300	300	0.01	< 0.005		301
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.09	0.38	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		49.6	49.6	< 0.005	< 0.005		49.8
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.06	0.03	0.8	0	0	0.2	0.2	0	0.05	0.05		200	200	< 0.005	< 0.005	0.41	201
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.01	0.01	0.01	0.13	0	0	0.04	0.04	0	0.01	0.01		40.5	40.5	< 0.005	< 0.005	0.04	40.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.71	6.71	< 0.005	< 0.005	0.01	6.73
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.15. Architectural Coating (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.02	0.02	0.65	0.96	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.02	0.02	0.65	0.96	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	< 0.005	< 0.005	0.14	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		29.6	29.6	< 0.005	< 0.005		29.7
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		4.91	4.91	< 0.005	< 0.005		4.92
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	< 0.005	< 0.005	< 0.005	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		16.3	16.3	< 0.005	< 0.005	0.03	16.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.02	0.02	0	< 0.005	< 0.005		14.5	14.5	< 0.005	< 0.005	< 0.005	14.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.29	3.29	< 0.005	< 0.005	< 0.005	3.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.54	0.54	< 0.005	< 0.005	< 0.005	0.55
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Typ	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2029	1/25/2029	6	22	
Grading	Grading	1/26/2029	3/8/2029	6	36	

Building Cc	Building Cc	3/9/2029	6/25/2032	6	1033
Paving	Paving	6/26/2032	9/28/2032	6	81
Architectu	Architectu	9/29/2032	12/31/2032	6	81

5.2. Off-Road Equipment
5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepow	Load Factor
Site Prepar	Rubber Tir	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lc	Diesel	Average	3	8	84	0.37
Grading	Rubber Tir	Diesel	Average	1	8	367	0.4
Building Cc	Cranes	Diesel	Average	1	7	367	0.29
Building Cc	Forklifts	Diesel	Average	3	8	82	0.2
Building Cc	Generator	Diesel	Average	1	8	14	0.74
Building Cc	Welders	Diesel	Average	1	8	46	0.45
Building Cc	Tractors/Lc	Diesel	Average	3	7	84	0.37
Paving	Tractors/Lc	Diesel	Average	1	8	84	0.37
Paving	Cement an	Diesel	Average	2	6	10	0.56
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Architectu	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles
5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way Trip	Miles per Tri	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Cc	Worker	7.78	14.3	LDA,LDT1,LDT2
Building Cc	Vendor	3.98	8.8	HHDT,MHDT
Building Cc	Hauling	0	20	HHDT
Building Cc	Onsite truck			HHDT
Paving				
Paving	Worker	20	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectu	Worker	1.56	14.3	LDA,LDT1,LDT2
Architectu	Vendor		8.8	HHDT,MHDT
Architectu	Hauling	0	20	HHDT
Architectu	Onsite truck			HHDT

5.4. Vehicles
5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential En	Non-Residen	Non-Reside	Parking Area Coated (sq ft)

5.6. Dust Mitigation
5.6.1. Construction Earthmoving Activities

Phase Nam	Material In	Material Exp	Acres Graded	Material Du	Acres Paved (acres)
Site Preparation			33	0	
Grading			36	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reduct	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Of	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Yr	CO2	CH4	N2O
2029	0	375	0.01	< 0.005
2030	0	375	0.01	< 0.005
2031	0	375	0.01	< 0.005
2032	0	375	0.01	< 0.005

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acres	Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report
6.1. Climate Risk Summary
Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 210

Climate Ha	Result for F	Unit
Temperatu	19.8	annual days of extreme heat
Extreme Pr	5	annual days with precipitation above 20 mm
Sea Level R	0	meters of inundation depth
Wildfire	0	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 m
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 m
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-CMS), 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-CMS), 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 Ha	Exposure S	Sensitivity Sc	Adaptive Ca	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adap
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 Ha	Exposure S	Sensitivity Sc	Adaptive Ca	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adap
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking Wa	69.9
Lead Risk fr	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Si	61.8
Groundwa	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Wast	64.4
Sensitive Population	
Asthma	24.7
Cardio-vas	32
Low Birth W	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployn	7.77

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 Pov	60.34903
Employed	0.526113
Median HI	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent h	66.67522

Voting	91.95432
Neighborhood	
Alcohol avi	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing hi	88.97729
Low-inc ho	91.58219
Low-inc re	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (ex	2.7
Asthma	28
Coronary h	1.9
Chronic Ot	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Atta	39
Mental He	52
Chronic Ki	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drinl	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ri	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acc	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroS	46
Healthy Pl	46
Project Loc No	
Project Loc No	
Project Loc No	

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

7.4. Health & Equity Measures

Measure T Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Points E Max Possible Weighted Score

7.6. Health & Equity Custom Measures

Measure T Sponsor

8. User Changes to Default Data

Screen	Justification
Constructi	Project description and 6 days a week

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 2
Constructic	1/1/2033
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.37955344542385, -121.38815261874641
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
Hospital	11	1000sqft	0.25	11000				Rehab and rescue facility
Fast Food F	0.5	1000sqft	0.01	500				food kiosk
Health Clul	1.8	1000sqft	0.04	1800				restrooms
General Of	6.4	1000sqft	0.15	6400				deserts interior exhibits
Recreation	18.6	1000sqft	0	0				freshwater interior exhibits
Day-Care C	9	1000sqft	0.21	9000				educational building
City Park	0.05	Acre	0.05	0	2100	2100		beaver
City Park	0.29	Acre	0.29	0	12700	12700		big horn sheep
City Park	0.05	Acre	0.05	0	2100	2100		bobcat
General Of	2	1000sqft	0.05	2000				California Deserts Interior
City Park	0.09	Acre	0.09	0	4000	4000		eagle and fish
City Park	0.96	Acre	0.96	0	42000	42000		elk meadow
City Park	0.83	Acre	0.83	0	36000	36000		grizzly bear
City Park	0.19	Acre	0.19	0	8300	8300		river otter
General Of	0.5	1000sqft	0.01	500				California sierra nevada mountains exhibit
Medical Of	11.5	1000sqft	0.26	11500				animal care quarters
City Park	0.1	Acre	0.1	0	5000	5000		changing exhibits

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.1	0.92	7.9	13.4	0.02	0.2	0.2	0.41	0.19	0.05	0.24		2701	2701	0.11	0.04	0.44	2717
Daily, Winter (Max)																		
Unmit.	3.17	7.52	21.2	24.9	0.05	0.86	19.8	20.7	0.79	10.1	10.9		5450	5450	0.22	0.04	0.01	5468
Average Daily (Max)																		
Unmit.	1.03	1.46	7.33	11.9	0.02	0.21	1.11	1.31	0.19	0.51	0.7		2406	2406	0.1	0.04	0.16	2420
Annual (Max)																		
Unmit.	0.19	0.27	1.34	2.17	< 0.005	0.04	0.2	0.24	0.03	0.09	0.13		398	398	0.02	0.01	0.03	401

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2033 max	3.17	2.67	21.2	24.9	0.05	0.86	19.8	20.7	0.79	10.1	10.9	0	398	398	0.02	0.01	0.03	401
2034 max	1.08	7.52	7.76	13.4	0.02	0.19	0.2	0.39	0.18	0.05	0.23	0	313	313	0.01	< 0.005	0.02	315

	Gasoline	Diesel
2033	19.1	382
2034	17.61	296.83

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2033	1.1	0.92	7.9	13.4	0.02	0.2	0.2	0.41	0.19	0.05	0.24		2701	2701	0.11	0.04	0.44	2717
2034	1.08	0.91	7.74	13.4	0.02	0.19	0.2	0.39	0.18	0.05	0.23		2693	2693	0.11	0.04	0.38	2709
Daily - Winter (Max)																		
2033	3.17	2.67	21.2	24.9	0.05	0.86	19.8	20.7	0.79	10.1	10.9		5450	5450	0.22	0.04	0.01	5468
2034	1.08	7.52	7.76	13.3	0.02	0.19	0.2	0.39	0.18	0.05	0.23		2677	2677	0.11	0.04	0.01	2693
Average Daily																		
2033	1.03	0.86	7.33	11.9	0.02	0.21	1.11	1.31	0.19	0.51	0.7		2406	2406	0.1	0.04	0.16	2420
2034	0.78	1.46	5.6	9.59	0.02	0.14	0.15	0.29	0.13	0.04	0.17		1891	1891	0.07	0.03	0.12	1901
Annual																		
2033	0.19	0.16	1.34	2.17	< 0.005	0.04	0.2	0.24	0.03	0.09	0.13		398	398	0.02	0.01	0.03	401
2034	0.14	0.27	1.02	1.75	< 0.005	0.03	0.03	0.05	0.02	0.01	0.03		313	313	0.01	< 0.005	0.02	315

3. Construction Emissions Details

3.1. Site Preparation (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	3.13	2.63	21.2	24.4	0.05	0.86		0.86	0.79		0.79		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.09	0.08	0.64	0.73	< 0.005	0.03		0.03	0.02		0.02		160	160	0.01	< 0.005		160
Dust From Material Movement							0.59	0.59		0.3	0.3							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.01	0.12	0.13	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		26.4	26.4	< 0.005	< 0.005		26.5
Dust From Material Movement							0.11	0.11		0.06	0.06							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.49	0	0	0.18	0.18	0	0.04	0.04		154	154	< 0.005	< 0.005	0.01	154
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		4.75	4.75	< 0.005	< 0.005	< 0.005	4.76
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.79	0.79	< 0.005	< 0.005	< 0.005	0.79
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	1.59	1.34	10.9	16	0.03	0.42		0.42	0.38		0.38		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.08	0.07	0.54	0.79	< 0.005	0.02		0.02	0.02		0.02		146	146	0.01	< 0.005		146
Dust From Material Movement							0.35	0.35		0.17	0.17							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.1	0.14	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		24.2	24.2	< 0.005	< 0.005		24.2
Dust From Material Movement							0.06	0.06		0.03	0.03							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.42	0	0	0.15	0.15	0	0.04	0.04		132	132	< 0.005	< 0.005	0.01	132
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.66	6.66	< 0.005	< 0.005	0.01	6.68
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.1	1.1	< 0.005	< 0.005	< 0.005	1.11
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Off-Road E	0.81	0.68	5.96	9.93	0.02	0.16		0.16	0.15		0.15	1863	1863	0.08	0.02		1869					
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Annual																						
Off-Road E	0.15	0.12	1.09	1.81	< 0.005	0.03		0.03	0.03		0.03	308	308	0.01	< 0.005		310					
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Offsite																						
Daily, Summer (Max)																						
Worker	0.04	0.04	0.02	0.56	0	0	0.15	0.15	0	0.04	0.04	146	146	< 0.005	< 0.005	0.26	147					
Vendor	0.01	0.01	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	158	158	0.01	0.02	0.18	166					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Daily, Winter (Max)																						
Worker	0.04	0.04	0.03	0.41	0	0	0.15	0.15	0	0.04	0.04	130	130	< 0.005	< 0.005	0.01	130					
Vendor	0.01	0.01	0.23	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	158	158	0.01	0.02	< 0.005	166					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Average Daily																						
Worker	0.03	0.03	0.02	0.33	0	0	0.11	0.11	0	0.03	0.03	104	104	< 0.005	< 0.005	0.09	104					
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	123	123	0.01	0.02	0.06	129					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Annual																						
Worker	0.01	0.01	< 0.005	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005	17.1	17.1	< 0.005	< 0.005	0.01	17.2					
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	20.3	20.3	< 0.005	< 0.005	0.01	21.3					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					

3.7. Building Construction (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.66	0.55	4.79	8.13	0.01	0.12		0.12	0.11		0.11		1525	1525	0.06	0.01		1531
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.12	0.1	0.87	1.48	< 0.005	0.02		0.02	0.02		0.02		253	253	0.01	< 0.005		253
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.02	0.54	0	0	0.15	0.15	0	0.04	0.04		144	144	< 0.005	< 0.005	0.23	145
Vendor	0.01	< 0.005	0.2	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		152	152	0.01	0.02	0.15	159
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.4	0	0	0.15	0.15	0	0.04	0.04		128	128	< 0.005	< 0.005	0.01	128
Vendor	0.01	< 0.005	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		152	152	0.01	0.02	< 0.005	159
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.26	0	0	0.09	0.09	0	0.02	0.02		83.6	83.6	< 0.005	< 0.005	0.06	83.9
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		96.9	96.9	< 0.005	0.01	0.04	101
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.02	0.02	0	< 0.005	< 0.005		13.8	13.8	< 0.005	< 0.005	0.01	13.9
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16	16	< 0.005	< 0.005	0.01	16.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Paving (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.65	0.54	5.29	8.74	0.01	0.15		0.15	0.14		0.14		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.65	0.54	5.29	8.74	0.01	0.15		0.15	0.14		0.14		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.07	0.06	0.58	0.96	< 0.005	0.02		0.02	0.02		0.02		148	148	0.01	< 0.005		148
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.11	0.17	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		24.5	24.5	< 0.005	< 0.005		24.6
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.05	0.03	0.73	0	0	0.2	0.2	0	0.05	0.05		195	195	< 0.005	< 0.005	0.31	196
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.05	0.04	0.54	0	0	0.2	0.2	0	0.05	0.05		173	173	< 0.005	< 0.005	0.01	174
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	< 0.005	0.06	0	0	0.02	0.02	0	0.01	0.01		19.5	19.5	< 0.005	< 0.005	0.01	19.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.22	3.22	< 0.005	< 0.005	< 0.005	3.23
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Architectural Coating (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01		134	134	0.01	< 0.005		134
Architectural Coatings		7.42																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.01	0.01	0.08	0.12	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		14.6	14.6	< 0.005	< 0.005		14.7
Architectural Coatings		0.81																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005		0.02	0.02	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.42	2.42	< 0.005	< 0.005		2.43
Architectural Coatings		0.15																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.08	0	0	0.03	0.03	0	0.01	0.01		25.6	25.6	< 0.005	< 0.005	< 0.005	25.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.88	2.88	< 0.005	< 0.005	< 0.005	2.89
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.48	0.48	< 0.005	< 0.005	< 0.005	0.48
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2033	1/13/2033	6	11	
Grading	Grading	1/14/2033	2/3/2033	6	18	
Building Co	Building Co	2/4/2033	9/28/2034	6	516	
Paving	Paving	9/29/2034	11/14/2034	6	40	
Architectur	Architectur	11/15/2034	12/30/2034	6	40	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepow	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lo	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lo	Diesel	Average	3	8	84	0.37
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator	Diesel	Average	1	8	14	0.74
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lo	Diesel	Average	3	7	84	0.37
Paving	Tractors/Lo	Diesel	Average	1	8	84	0.37
Paving	Cement an	Diesel	Average	2	6	10	0.56
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way Tri	Miles per Trip	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	15.5	14.3	LDA,LDT1,LDT2
Building Co	Vendor	7.21	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	20	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	3.1	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential E	Non-Resident	Non-Resid	Parking Area Coated (sq ft)
Architectur	0	0	66000	22000	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Exp	Acres Graded	Material D	Acres Paved (acres)
Site Preparation			16.5	0	
Grading			18	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reduc	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
Hospital	0	0
Fast Food F	0	0
Health Clul	0	0
Hotel	0	0
General Of	0	0
Recreation	0	0
Day-Care C	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
General Of	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
General Of	0	0
Medical Of	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Yr	CO2	CH4	N2O
2033	0	178	0.01	< 0.005
2034	0	163	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Ha	Result for Project Census Tract
Temperatu	19.8 annual days of extreme heat
Extreme Pr	5 annual days with precipitation above 20 mm
Sea Level R	0 meters of inundation depth
Wildfire	0 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 m

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 m

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

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

6.2. Initial Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Cap	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A		N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A		N/A
Air Quality	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Cap	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A		N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A		N/A
Air Quality	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Si	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Wast	64.4
Sensitive Population	
Asthma	24.7
Cardio-vas	32
Low Birth V	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployr	7.77

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 Pov	60.34903
Employed	0.526113
Median HI	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent ho	66.67522
Voting	91.95432
Neighborhood	
Alcohol avi	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc ren	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46

Healthy Pla 46
Project Loc No
Project Loc No
Project Loc No
a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures
Measure T Co-Benefits Achieved

7.5. Evaluation Scorecard
Category Number of Total Points Max Possible Weighted Score

7.6. Health & Equity Custom Measures
Measure T Sponsor

8. User Changes to Default Data
Screen Justification
Land Use Project description
Constructio 6 days a week, schedule timing from PD
Operations got rid of NaN

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nam	EGZ Phase 3
Constructio	1/1/2035
Lead Agency	
Land Use Sc	Project/site
Analysis Lev	County
Windspeed	3
Precipitatio	36.6
Location	38.380788679791895 76, -121.38934529264463
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Util	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versior	2022.1.1.14

1.2. Land Use Types

Land Use Su	Size	Unit	Lot Acreage	Building Are	Landscape A	Special Lan	Population	Description
General Off	10.6	1000sqft	0.24	10600	10600			

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	0.49	0.41	3.52	6.93	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1373	1373	0.06	0.02	0.12	1380
Daily, Winter (Max)																		
Unmit.	1.43	1.2	9.31	15.3	0.03	0.33	5.43	5.76	0.3	2.6	2.9		3148	3148	0.13	0.03	< 0.005	3160
Average Daily (Max)																		
Unmit.	0.44	0.47	3.13	5.99	0.01	0.09	0.47	0.56	0.08	0.21	0.29		1187	1187	0.05	0.01	0.03	1192
Annual (Max)																		
Unmit.	0.08	0.09	0.57	1.09	< 0.005	0.02	0.09	0.1	0.01	0.04	0.05		196	196	0.01	< 0.005	< 0.005	197

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2035	0.48	0.4	3.47	6.93	0.01	0.09	0.05	0.13	0.08	0.01	0.09		1373	1373	0.06	0.02	0.08	1380
2036	0.46	0.39	3.34	6.87	0.01	0.08	0.05	0.13	0.07	0.01	0.08		1372	1372	0.06	0.02	0.06	1378
2037	0.45	0.38	3.26	6.81	0.01	0.07	0.05	0.12	0.07	0.01	0.08		1370	1370	0.05	0.02	0.05	1376
2038	0.45	0.38	3.2	6.79	0.01	0.07	0.05	0.12	0.06	0.01	0.08		1369	1369	0.05	0.02	0.04	1375
2039	0.49	0.41	3.52	6.75	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1368	1368	0.05	0.02	0.12	1374
Daily - Winter (Max)																		
2035	1.43	1.2	9.31	15.3	0.03	0.33	5.43	5.76	0.3	2.6	2.9		3148	3148	0.13	0.03	< 0.005	3160
2036	0.46	0.39	3.34	6.84	0.01	0.08	0.05	0.13	0.07	0.01	0.08		1368	1368	0.06	0.02	< 0.005	1374
2037	0.45	0.38	3.26	6.78	0.01	0.07	0.05	0.12	0.07	0.01	0.08		1367	1367	0.05	0.02	< 0.005	1373
2038	0.45	0.38	3.21	6.76	0.01	0.07	0.05	0.12	0.06	0.01	0.08		1365	1365	0.05	0.02	< 0.005	1371
2039	0.49	1.16	3.52	6.72	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1364	1364	0.05	0.02	< 0.005	1370
Average Daily																		
2035	0.44	0.37	3.13	5.99	0.01	0.09	0.47	0.56	0.08	0.21	0.29		1187	1187	0.05	0.01	0.03	1192
2036	0.4	0.33	2.87	5.88	0.01	0.07	0.04	0.11	0.06	0.01	0.07		1176	1176	0.05	0.01	0.02	1182
2037	0.39	0.33	2.8	5.81	0.01	0.06	0.04	0.1	0.06	0.01	0.07		1172	1172	0.05	0.01	0.02	1177
2038	0.39	0.32	2.75	5.8	0.01	0.06	0.04	0.1	0.06	0.01	0.06		1171	1171	0.05	0.01	0.02	1176
2039	0.33	0.47	2.31	4.5	0.01	0.05	0.06	0.11	0.05	0.01	0.06		864	864	0.03	0.01	0.02	867
Annual																		
2035	0.08	0.07	0.57	1.09	< 0.005	0.02	0.09	0.1	0.01	0.04	0.05		196	196	0.01	0.005	0.005	197
2036	0.07	0.06	0.52	1.07	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		195	195	0.01	0.005	0.005	196
2037	0.07	0.06	0.51	1.06	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		194	194	0.01	0.005	0.005	195
2038	0.07	0.06	0.5	1.06	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		194	194	0.01	0.005	0.005	195
2039	0.06	0.09	0.42	0.82	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		143	143	0.01	0.005	0.005	144

3. Construction Emissions Details

3.1. Demolition (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.42	0.35	3.27	5.3	0.01	0.06		0.06	0.05		0.05		851	851	0.03	0.01		854
Demolition							0	0		0	0							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.01	0.01	0.06	0.1	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		16.3	16.3	< 0.005	< 0.005		16.4
Demolition							0	0		0	0							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.7	2.7	< 0.005	< 0.005		2.71
Demolition							0	0		0	0							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.25	0	0	0.1	0.1	0	0.02	0.02		85.6	85.6	< 0.005	< 0.005	< 0.005	85.8
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.68	1.68	< 0.005	< 0.005	< 0.005	1.69
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Site Preparation (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.38	0.32	2.37	5.55	0.01	0.09		0.09	0.09		0.09		858	858	0.03	0.01		861
Dust From Material Movement							0.53	0.53		0.06	0.06							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.01	0.01	0.09	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		32.9	32.9	< 0.005	< 0.005		33
Dust From Material Movement							0.02	0.02		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		5.45	5.45	< 0.005	< 0.005		5.47
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.13	0	0	0.05	0.05	0	0.01	0.01		42.8	42.8	< 0.005	< 0.005	< 0.005	42.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.68	1.68	< 0.005	< 0.005	< 0.005	1.69
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Grading (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.93	0.78	5.83	8.21	0.02	0.24		0.24	0.22		0.22		1714	1714	0.07	0.01		1720
Dust From Material Movement							5.31	5.31		2.57	2.57							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.07	0.06	0.45	0.63	< 0.005	0.02		0.02	0.02		0.02		131	131	0.01	< 0.005		132
Dust From Material Movement							0.41	0.41		0.2	0.2							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.01	0.01	0.08	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		21.8	21.8	< 0.005	< 0.005		21.8
Dust From Material Movement							0.07	0.07		0.04	0.04							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.02	0.02	0.01	0.19	0	0	0.08	0.08	0	0.02	0.02		64.2	64.2	< 0.005	< 0.005	< 0.005	64.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		5.05	5.05	< 0.005	< 0.005	< 0.005	5.07
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.84	0.84	< 0.005	< 0.005	< 0.005	0.84
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.46	0.39	3.41	6.78	0.01	0.09		0.09	0.08		0.08		1304	1304	0.05	0.01		1309
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.46	0.39	3.41	6.78	0.01	0.09		0.09	0.08		0.08		1304	1304	0.05	0.01		1309
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.34	0.28	2.48	4.94	0.01	0.06		0.06	0.06		0.06		949	949	0.04	0.01		953

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2035 max	1.43	1.2	9.31	15.3	0.03	0.33	5.43	5.76	0.3	2.6	2.9	0	196	196	0.01	0.005	0.005	197
2036 max	0.46	0.39	3.34	6.87	0.01	0.08	0.05	0.13	0.07	0.01	0.08	0	195	195	0.01	0.005	0.005	196
2037 max	0.45	0.38	3.26	6.81	0.01	0.07	0.05	0.12	0.07	0.01	0.08	0	194	194	0.01	0.005	0.005	195
2038 max	0.45	0.38	3.21	6.79	0.01	0.07	0.05	0.12	0.06	0.01	0.08	0	194	194	0.01	0.005	0.005	195
2039 max	0.49	1.16	3.52	6.75	0.01	0.09	0.18	0.26	0.08	0.04	0.12	0	143	143	0.01	0.005	0.005	144

	Gasoline	Diesel
2035	5	192.58
2036	4.21	191.24
2037	4.15	191.07
2038	4.12	190.91
2039	7.11	136.67

1. Basic Project Information
1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 4
Constructic	1/1/2040
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.38053334655811, -121.39012373594
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
General Of	22.5	1000sqft	0.52	22500				Wallace Line Building
Fast Food F	0.5	1000sqft	0.01	500				Food Kiosk
Health Clul	1	1000sqft	0.02	1000				restrooms
Racquet Cl	7.6	1000sqft	0.17	7600				greenhouse 1 and 2
Automobil	8.5	1000sqft	0.2	8500				maintenance shed/shops
City Park	3.8	Acre	3.8	0				event storage
City Park	0.07	Acre	0.07	0	3000	3000		Australian Aviaries
City Park	0.25	Acre	0.25	0	11000	11000		Australia/Wallaby Aviary
City Park	0.1	Acre	0.1	0	4500	4500		cassowary
General Of	3	1000sqft	0.07	3000				kimono dragon
General Of	8.3	1000sqft	0.19	8300				interior exhibits
City Park	0.13	Acre	0.13	0	5500	5500		Asian Aviaries
City Park	0	Acre	0	0	200	200		blood python
City Park	0.16	Acre	0.16	0	7000	7000		clouded leopard
City Park	0.87	Acre	0.87	0	38000	38000		Tiger
City Park	0.07	Acre	0.07	0	3000	3000		Red Panda
City Park	0.76	Acre	0.76	0	33000	33000		Asian Apes
Medical Of	18	1000sqft	0.41	18000				Animal Care Quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary
2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.38	1.16	8.58	14.9	0.03	0.28	7.23	7.51	0.26	3.46	3.72		3097	3097	0.12	0.05	0.2	3108
Daily, Winter (Max)																		
Unmit.	2.61	7.76	16	20.2	0.05	0.58	19.8	20.4	0.53	10.1	10.7		5439	5439	0.22	0.05	0.01	5458
Average Daily (Max)																		
Unmit.	1.07	1.85	7.04	12.1	0.02	0.18	3.12	3.3	0.17	1.5	1.67		2676	2676	0.1	0.04	0.06	2691
Annual (Max)																		
Unmit.	0.2	0.34	1.28	2.21	< 0.005	0.03	0.57	0.6	0.03	0.27	0.31		443	443	0.02	0.01	0.01	446

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2040	1.38	1.16	8.58	14.9	0.03	0.28	7.23	7.51	0.26	3.46	3.72		3097	3097	0.12	0.05	0.2	3108
2041	1.01	0.84	6.91	13.2	0.03	0.14	0.32	0.46	0.13	0.08	0.21		2810	2810	0.11	0.05	0.16	2828
2042	1.01	0.84	6.86	13.1	0.03	0.14	0.32	0.45	0.13	0.08	0.2		2804	2804	0.11	0.05	0.13	2823
Daily - Winter (Max)																		
2040	2.61	2.2	16	20.2	0.05	0.58	19.8	20.4	0.53	10.1	10.7		5439	5439	0.22	0.05	0.01	5458
2041	1.01	0.84	6.94	13	0.03	0.14	0.32	0.46	0.13	0.08	0.21		2786	2786	0.11	0.05	< 0.005	2804
2042	1	7.76	6.89	12.9	0.03	0.14	0.32	0.45	0.13	0.08	0.2		2781	2781	0.11	0.05	< 0.005	2799
Average Daily																		
2040	1.07	0.89	7.04	12.1	0.02	0.18	3.12	3.3	0.17	1.5	1.67		2676	2676	0.1	0.04	0.06	2691
2041	0.87	0.72	5.94	11.1	0.02	0.12	0.27	0.39	0.11	0.07	0.18		2392	2392	0.09	0.04	0.06	2408
2042	0.64	1.85	4.54	8.57	0.02	0.09	0.19	0.28	0.08	0.05	0.13		1740	1740	0.07	0.03	0.04	1751
Annual																		
2040	0.2	0.16	1.28	2.21	< 0.005	0.03	0.57	0.6	0.03	0.27	0.31		443	443	0.02	0.01	0.01	446
2041	0.16	0.13	1.08	2.03	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03		396	396	0.02	0.01	0.01	399
2042	0.12	0.34	0.83	1.56	< 0.005	0.02	0.04	0.05	0.01	0.01	0.02		288	288	0.01	0.005	0.01	290

3. Construction Emissions Details
3.1. Site Preparation (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	2.58	2.17	15.9	19.8	0.05	0.58		0.58	0.53		0.53		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.22	0.18	1.35	1.69	< 0.005	0.05		0.05	0.05		0.05		450	450	0.02	< 0.005		451
Dust From Material Movement							1.67	1.67		0.86	0.86							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.04	0.03	0.25	0.31	< 0.005	0.01		0.01	0.01		0.01		74.5	74.5	< 0.005	< 0.005		74.7
Dust From Material Movement							0.3	0.3		0.16	0.16							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.03	0.03	0.38	0	0	0.18	0.18	0	0.04	0.04		143	143	< 0.005	< 0.005	< 0.005	144
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		12.5	12.5	< 0.005	< 0.005	< 0.005	12.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.07	2.07	< 0.005	< 0.005	< 0.005	2.08
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.35	1.13	8.57	14.4	0.03	0.28		0.28	0.26		0.26		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.35	1.13	8.57	14.4	0.03	0.28		0.28	0.26		0.26		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.23	0.2	1.48	2.49	< 0.005	0.05		0.05	0.04		0.04		511	511	0.02	< 0.005		512
Dust From Material Movement							1.22	1.22		0.59	0.59							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.04	0.04	0.27	0.45	< 0.005	0.01		0.01	0.01		0.01		84.6	84.6	< 0.005	< 0.005		84.8
Dust From Material Movement							0.22	0.22		0.11	0.11							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.02	0.45	0	0	0.15	0.15	0	0.04	0.04		138	138	< 0.005	< 0.005	0.09	139
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.03	0.02	0.32	0	0	0.15	0.15	0	0.04	0.04		123	123	< 0.005	< 0.005	< 0.005	123
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.03	0.03	0	0.01	0.01		21.8	21.8	< 0.005	< 0.005	0.01	21.8
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.6	3.6	< 0.005	< 0.005	< 0.005	3.62
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2040 max	2.61	2.2	16	20.2	0.05	0.58	19.8	20.4	0.53	10.1	10.7	0	443	443	0.02	0.01	0.01	446
2041 max	1.01	0.84	6.94	13.2	0.03	0.14	0.32	0.46	0.13	0.08	0.21	0	396	396	0.02	0.01	0.01	399
2042 max	1.01	7.76	6.89	13.1	0.03	0.14	0.32	0.45	0.13	0.08	0.2	0	288	288	0.01	0.005	0.01	290

	Gas	Diesel
2040	25.1	420
2041	27.5	370.8
2042	21.02	269.03

3.5. Building Construction (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.96	0.8	6.71	12.4	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.96	0.8	6.71	12.4	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.57	0.48	4.03	7.45	0.01	0.09		0.09	0.08		0.08		1441	1441	0.06	0.01		1446
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.1	0.09	0.74	1.36	< 0.005	0.02		0.02	0.01		0.01		239	239	0.01	< 0.005		239
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.7	0	0	0.23	0.23	0	0.05	0.05		213	213	< 0.005	< 0.005	0.14	214
Vendor	0.01	0.01	0.25	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		205	205	0.01	0.03	0.07	216
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.5	0	0	0.23	0.23	0	0.05	0.05		189	189	< 0.005	< 0.005	< 0.005	190
Vendor	0.01	0.01	0.27	0.14	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		206	206	0.01	0.03	< 0.005	216
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.03	0.02	0.01	0.31	0	0	0.14	0.14	0	0.03	0.03		117	117	< 0.005	< 0.005	0.04	117
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		124	124	< 0.005	0.02	0.02	130
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.03	0.03	0	0.01	0.01		19.4	19.4	< 0.005	< 0.005	0.01	19.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		20.5	20.5	< 0.005	< 0.005	< 0.005	21.5
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2041) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.95	0.8	6.65	12.3	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.95	0.8	6.65	12.3	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.81	0.68	5.7	10.6	0.02	0.12		0.12	0.11		0.11		2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.15	0.12	1.04	1.93	< 0.005	0.02		0.02	0.02		0.02		340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.69	0	0	0.23	0.23	0	0.05	0.05		212	212	< 0.005	< 0.005	0.11	213
Vendor	0.01	0.01	0.24	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		201	201	0.01	0.03	0.05	210
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.49	0	0	0.23	0.23	0	0.05	0.05		188	188	< 0.005	< 0.005	< 0.005	189
Vendor	0.01	0.01	0.26	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		201	201	0.01	0.03	< 0.005	210
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.04	0.03	0.02	0.43	0	0	0.2	0.2	0	0.05	0.05		166	166	< 0.005	< 0.005	0.04	166
Vendor	0.01	0.01	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02		172	172	0.01	0.03	0.02	180
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	< 0.005	0.08	0	0	0.04	0.04	0	0.01	0.01		27.4	27.4	< 0.005	< 0.005	0.01	27.5
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		28.5	28.5	< 0.005	< 0.005	< 0.005	29.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.95	0.79	6.6	12.3	0.02	0.13		0.13	0.12		0.12		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.95	0.79	6.6	12.3	0.02	0.13		0.13	0.12		0.12		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.49	0.41	3.4	6.34	0.01	0.07		0.07	0.06		0.06		1233	1233	0.05	0.01		1237
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.09	0.07	0.62	1.16	< 0.005	0.01		0.01	0.01		0.01		204	204	0.01	< 0.005		205
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.67	0	0	0.23	0.23	0	0.05	0.05		211	211	< 0.005	< 0.005	0.09	211
Vendor	0.01	0.01	0.23	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		197	197	0.01	0.03	0.04	206
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.47	0	0	0.23	0.23	0	0.05	0.05		187	187	< 0.005	< 0.005	< 0.005	188
Vendor	0.01	0.01	0.25	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		197	197	0.01	0.03	< 0.005	206
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.25	0	0	0.12	0.12	0	0.03	0.03		98.9	98.9	< 0.005	< 0.005	0.02	99.2
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		101	101	< 0.005	0.02	0.01	106
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.02	0.02	0	0.01	0.01		16.4	16.4	< 0.005	< 0.005	< 0.005	16.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16.8	16.8	< 0.005	< 0.005	< 0.005	17.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Paving (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.56	0.47	5.16	9.73	0.01	0.1		0.1	0.09		0.09		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.56	0.47	5.16	9.73	0.01	0.1		0.1	0.09		0.09		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.1	0.08	0.88	1.65	< 0.005	0.02		0.02	0.02		0.02		257	257	0.01	< 0.005		257
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.01	0.16	0.3	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		42.5	42.5	< 0.005	< 0.005		42.6
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.02	0.02	0.43	0	0	0.15	0.15	0	0.04	0.04		137	137	< 0.005	< 0.005	0.06	137
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.02	0.02	0.31	0	0	0.15	0.15	0	0.04	0.04		122	122	< 0.005	< 0.005	< 0.005	122
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.03	0.03	0	0.01	0.01		21.2	21.2	< 0.005	< 0.005	< 0.005	21.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.51	3.51	< 0.005	< 0.005	< 0.005	3.52
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Architectural Coating (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.11	0.09	0.74	1.09	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Architectural Coatings		7.66																

Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.02	0.02	0.13	0.19	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		23	23	< 0.005	< 0.005		23.1
Architectural Coatings		1.32																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.82	3.82	< 0.005	< 0.005		3.83
Architectural Coatings		0.24																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.09	0	0	0.05	0.05	0	0.01	0.01		37.5	37.5	< 0.005	< 0.005	< 0.005	37.6
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.64	6.64	< 0.005	< 0.005	< 0.005	6.66
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.1	1.1	< 0.005	< 0.005	< 0.005	1.1
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2040	2/6/2040	6	31	
Grading	Grading	2/7/2040	4/19/2040	6	63	
Building Cc	Building Cc	4/20/2040	8/7/2042	6	720	
Paving	Paving	8/8/2042	10/18/2042	6	62	
Architectui	Architectui	10/19/2042	12/31/2042	6	63	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepowe	Load Factor
Site Prepar	Rubber Tir	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lc	Diesel	Average	3	8	84	0.37
Grading	Rubber Tir	Diesel	Average	1	8	367	0.4
Building Cc	Forklifts	Diesel	Average	3	8	82	0.2
Building Cc	Generator	Diesel	Average	1	8	14	0.74
Building Cc	Cranes	Diesel	Average	1	7	367	0.29
Building Cc	Welders	Diesel	Average	1	8	46	0.45
Building Cc	Tractors/Lc	Diesel	Average	3	7	84	0.37
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectui	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way Trip	Miles per Trip	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Cc	Worker	23.1	14.3	LDA,LDT1,LDT2
Building Cc	Vendor	11.4	8.8	HHDT,MHDT
Building Cc	Hauling	0	20	HHDT
Building Cc	Onsite truck			HHDT
Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectui	Worker	4.62	14.3	LDA,LDT1,LDT2
Architectui	Vendor		8.8	HHDT,MHDT
Architectui	Hauling	0	20	HHDT
Architectui	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redi	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential E	Non-Residen	Non-Reside	Parking Area Coated (sq ft)
Architectui	0	0	104100	34700	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material In	Material Exp	Acres Gradec	Material D	Acres Paved (acres)
Site Preparation			46.5	0	
Grading			63	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str Frequency PM10 Reduct PM2.5 Reduction

5.7. Construction Paving
Land Use Area Paved % Asphalt
General Of 0 0
Fast Food F 0 0
Health Clul 0 0
Racquet Cl 0 0
Automobile 0 0
City Park 0 0
City Park 0 0
City Park 0 0
City Park 0 0
General Of 0 0
General Of 0 0
City Park 0 0
City Park 0 0
City Park 0 0
City Park 0 0
City Park 0 0
City Park 0 0
Medical Of 0 0

5.8. Construction Electricity Consumption and Emissions Factors
Year kWh per Yr CO2 CH4 N2O
2040 0 375 0.01 < 0.005
2041 0 375 0.01 < 0.005
2042 0 375 0.01 < 0.005

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated
Vegetation Vegetation Initial Acres Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated
Biomass Cc Initial Acre Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated
Tree Type Number Electricity Sa Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report
6.1. Climate Risk Summary
Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100
Climate Ha Result for FUnit
Temperatu 19.8 annual days of extreme heat
Extreme Pr 5 annual days with precipitation above 20 mm
Sea Level R 0 meters of inundation depth
Wildfire 0 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 m
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 m
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 (MIROCS). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164
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 (MIROCS). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.

6.2. Initial Climate Risk Scores
Climate Ha Exposure S Sensitivity Sc Adaptive Cag Vulnerability Score
Temperatu 1 0 0 N/A
Extreme Pr 2 0 0 N/A
Sea Level R N/A N/A N/A N/A
Wildfire 1 0 0 N/A
Flooding 0 0 0 N/A
Drought 0 0 0 N/A
Snowpack N/A N/A N/A N/A
Air Quality 0 0 0 N/A
The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores
Climate Ha Exposure S Sensitivity Sc Adaptive Cag Vulnerability Score
Temperatu 1 1 1 2
Extreme Pr 2 1 1 3
Sea Level R N/A N/A N/A N/A
Wildfire 1 1 1 2
Flooding 1 1 1 2
Drought 1 1 1 2
Snowpack N/A N/A N/A N/A
Air Quality 1 1 1 2
The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state
Indicator Result for Project Census Tract
Exposure Indicators
AQ-Ozone
AQ-PM
AQ-DPM
Drinking Water
Lead Risk Housing
Pesticides
Toxic Releases
Traffic
Effect Indicators
CleanUp Sites
Groundwater
Haz Waste Facilities/Generators
Impaired Water Bodies
Solid Waste
Sensitive Population
Asthma
Cardio-vascular
Low Birth Weights
Socioeconomic Factor Indicators
Education
Housing
Linguistic
Poverty
Unemployment

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
Employed
Median HI
Education
Bachelor's or higher
High school enrollment
Preschool enrollment
Transportation
Auto Access
Active commuting
Social
2-parent households
Voting
Neighborhood
Alcohol availability
Park access
Retail density
Supermarket access
Tree canopy
Housing
Homeownership
Housing habitability
Low-inc homeowner severe housing cost burden
Low-inc renter severe housing cost burden
Uncrowded housing
Health Outcomes

Insured adults
Arthritis
Asthma ER Admissions
High Blood Pressure
Cancer (excluding skin)
Asthma
Coronary Heart Disease
Chronic Obstructive Pulmonary Disease
Diagnosed Diabetes
Life Expectancy at Birth
Cognitively Disabled
Physically Disabled
Heart Attack ER Admissions
Mental Health Not Good
Chronic Kidney Disease
Obesity
Pedestrian Injuries
Physical Health Not Good
Stroke
Health Risk Behaviors
Binge Drinking
Current Smoker
No Leisure Time for Physical Activity
Climate Change Exposures
Wildfire Risk
SLR Inundation Area
Children
Elderly
English Speaking
Foreign-born
Outdoor Workers
Climate Change Adaptive Capacity
Impervious Surface Cover
Traffic Density
Traffic Access
Other Indices
Hardship
Other Decision Support
2016 Voting

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	
Healthy Places Index Score for Project Location (b)	
Project Loc No	
Project Loc No	
Project Loc No	

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

7.4. Health & Equity Measures

Measure T Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Points I Max Possible Weighted Score

7.6. Health & Equity Custom Measures

Measure T Sponsor

8. User Changes to Default Data

Screen	Justification
Constructi	6 days a week

Year	Gasoline (workers)	Diesel (offroad eq, vendor)	Phases	
2025	24.84	951.45	1A, 1B	
2026	54.4	802.24	1A, 1B	
2027	53.45	797.46	1A, 1B	
2028	14.58	413.49	1A, 1B	
2029	13.22	393	1C	
2030	10.9	355.9	1C	
2031	10.7	355.3	1C	
2032	12.4	227.39	1C	
2033	19.1	382		2
2034	17.61	296.83		2
2035	5	192.58		3
2036	4.21	191.24		3
2037	4.15	191.07		3
2038	4.12	190.91		3
2039	7.11	136.67		3
2040	25.1	420		4
2041	27.5	370.8		4
2042	21.02	269.03		4
Total	329.41	6937.36		

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e	Phases
2025		6	5	48	47	0	2	27	29	2	14	16	0	520	520	0.03	0.02	0.09	524	1A, 1B
2026		3	2	21	26	0	1	1	1	1	0	1	0	845	845	0.04	0.04	0.28	858	1A, 1B
2027		3	2	20	26	0	1	1	1	1	0	1	0	839	839	0.04	0.03	0.25	851	1A, 1B
2028		3	53	19	25	0	1	1	1	1	0	1	0	420.2	420.2	#VALUE!	#VALUE!	0.12	428	1A, 1B
2029		4	3	26	29	0	1	20	21	1	10	11	0	404	404	0.02	0.01	0.03	406	1B, 1C
2030		1	1	9	13	0	0	0	0	0	0	0	0	365	365	0.01	0.01	0.02	367	1C
2031		1	1	8	13	0	0	0	0	0	0	0	0	364	364	0.01	< 0.005	0.02	366	1C
2032		1	1	8	13	0	0	0	0	0	0	0	0	238	238	0.01	< 0.005	0.02	239	1C
2033		3	3	21	25	0	1	20	21	1	10	11	0	398	398	0.02	0.01	0.03	401	1C, 2
2034		1	8	8	13	0	0	0	0	0	0	0	0	313	313	0.01	< 0.005	0.02	315	2
2035		1	1	9	15	0	0	5	6	0	3	3	0	196	196	0.01	0.005	0.005	197	3
2036		0	0	3	7	0	0	0	0	0	0	0	0	195	195	0.01	0.005	0.005	196	3
2037		0	0	3	7	0	0	0	0	0	0	0	0	194	194	0.01	0.005	0.005	195	3
2038		0	0	3	7	0	0	0	0	0	0	0	0	194	194	0.01	0.005	0.005	195	3
2039		0	1	4	7	0	0	0	0	0	0	0	0	143	143	0.01	0.005	0.005	144	3
2040		3	2	16	20	0	1	20	20	1	10	11	0	443	443	0.02	0.01	0.01	446	4
2041		1	1	7	13	0	0	0	0	0	0	0	0	396	396	0.02	0.01	0.01	399	4
2042		1	8	7	13	0	0	0	0	0	0	0	0	288	288	0.01	0.005	0.01	290	4
MAX		**6**	**53**	**48**	**47**	**0**	**2**	**27**	**29**	**2**	**14**	**16**	**0**	**845**	**845**	**#VALUE!**	**#VALUE!**	**0.28**	**858**	
Total		**21.71**	**83.42**	**151.52**	**220.72**	**0.42**	**4.92**	**67.27**	**72.11**	**4.52**	**33.5**	**38.05**	**0**	**4551.2**	**4551.2**	**#VALUE!**	**#VALUE!**	**0.315**	**4583.9**	
SMAQMD Threshold		**None**		**65**	**85**	**None**	**None**	**None**	**None**		**80**			**82**					**1100**	
Exceeds?		**NA**		**NO**	**NO**				**NO**			**NO**						**NO**		

NOTE: All values in lb/day except for CO2e which is in MT/year

Per Appendix G of the CEQA Guidelines and SMAQMD recommendations, the project's impact to air quality is considered significant if it would do any of the following:

Conflict with or obstruct implementation of the applicable air quality plan;

Construction-generated criteria air pollutant or precursor emissions to exceed SMAQMD-recommended thresholds of 85 lb/day for NO*x*, 0 lb/day of PM*10* , and 0 lb/day of PM*2.5* . As noted in SMAQMD's recommended significance thresholds, if all feasible "Best Management Practices" (BMPs), as defined by SMAQMD, for controlling construction emissions are applied, the applicable threshold would be 80 lb/day and 14.6 tons/year for PM*10* , and 82 lb/day and 15 tons/year for PM*2.5* ;

A net increase in long-term operational criteria air pollutant or precursor emissions that exceed the SMAQMD-recommended thresholds of 65 lb/day for ROG and NO*x*, 0 lb/day of PM*10* , and 0 lb/day of PM*2.5* . If all feasible BMPs, as defined by SMAQMD, for controlling operational phase emissions are applied, the applicable threshold would be 80 lb/day and 14.6 tons/year for PM*10* , and 82 lb/day and 15 tons/year for PM*2.5* ;

Expose sensitive receptors to a substantial pollutant concentrations, which could include an incremental increase in TAC emissions that exceed 10 in one million for carcinogenic risk (i.e., the risk of contracting cancer) and/or a noncarcinogenic hazard index of 1.0 or greater; and/or

Create objectionable odors affecting a substantial number of people

AQ Report Table

Year	ROG	NOx	CO	SOx	PM10	PM2.5
2025	5	48	47	0	29	16
2026	2	21	26	0	1	1
2027	2	20	26	0	1	1
2028	53	19	25	0	1	1
2029	3	26	29	0	21	11
2030	1	9	13	0	0	0
2031	1	8	13	0	0	0
2032	1	8	13	0	0	0
2033	3	21	25	0	21	11
2034	8	8	13	0	0	0
2035	1	9	15	0	6	3
2036	0	3	7	0	0	0
2037	0	3	7	0	0	0
2038	0	3	7	0	0	0
2039	1	4	7	0	0	0
2040	2	16	20	0	20	11
2041	1	7	13	0	0	0
2042	8	7	13	0	0	0
MAX	**53.06**	**47.5**	**46.8**	**0.09**	**29.28**	**15.52**
Threshold	**65**	**85**	**None**	**None**	**80**	**82**
Exceeds?	**NO**	**NO**	-	-	**NO**	**NO**

Mitigated tc	38.05
Unmitigatec	38.05

9656
8316
7737
5546
10827

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Na	Elk Grove Zoo Phase 1
Constructic	6/1/2025
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	8675 Kammerer Rd, Elk Grove, CA 95757, USA
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
General Of	4.7	1000sqft	0.11	4700				guest services/ticketing
Free-Stand	10	1000sqft	0.23	10000				retail building
Health Clul	0.5	1000sqft	0.01	500				educational entry restroom
High Turno	12	1000sqft	0.28	12000				giraffe cafe
Other Non-	4.8	1000sqft	0.11	0				concrete pad
City Park	0.01	Acre	0.01	0				dwarf mongoose
City Park	0.06	Acre	0.06	0				giraffe feeding shelter
City Park	0.04	Acre	0.04	0				carousel shelter
Free-Stand	1	1000sqft	0.02	1000				train station and tickets
Health Clul	1	1000sqft	0.02	1000				multipurpose room 1
City Park	0.2	Acre	0.2	0				flamingo aviary
City Park	0.53	Acre	0.53	0				gelada
City Park	0.06	Acre	0.06	0				thick billed parrot
City Park	0.28	Acre	0.28	0				okapi
Medical Of	9	1000sqft	0.21	9000				animal care quaters
Day-Care C	1	1000sqft	0.02	1000				educational building 1
Day-Care C	1	1000sqft	0.02	1000				educational building 2
Day-Care C	1	1000sqft	0.02	1000				educational building 3
Health Clul	0.8	1000sqft	0.02	800				restrooms
City Park	0.01	Acre	0.01	0				hay, Browse, Fodder storage
Fast Food F	0.25	1000sqft	0.01	250				beer garden 1
Fast Food F	0.25	1000sqft	0.01	250				beer gardon 2
City Park	0.51	Acre	0.51	0				Lion
City Park	1.2	Acre	1.2	0				Savanna West
City Park	1.81	Acre	1.81	0				Savanna East
City Park	0.65	Acre	0.65	0				Rhino
City Park	0.34	Acre	0.34	0				Cheetah
City Park	0.01	Acre	0.01	0				African Small Mammal
Medical Of	25.5	1000sqft	0.59	25500				Animal Care Quarters
High Turno	3.2	1000sqft	0.07	3200				Gelada Cafe
Hospital	21	1000sqft	0.48	21000				Animal Care Center
City Park	0.07	Acre	0.07	0				viewing area
Automobil	8.7	1000sqft	0.2	8700				maintenance shed/shops
Parking Lot	500	Space	4.5	0				north lot
Parking Lot	700	Space	6.3	0				south lot
Health Clul	1	1000sqft	0.02	1000				multipurpose room 2
Health Clul	1	1000sqft	0.02	1000				multipurpose room 3
City Park	0.03	Acre	0.03	0				Meerkat
Health Clul	1	1000sqft	0.02	1000				Guest Restrooms

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	4.02		52.1	31.7	31.2	0.06	1.37	19.8	21.2	1.26	10.1	11.4		6826	6826	0.27	0.11	2.83	6852
Daily, Winter (Max)																			
Unmit.	1.55		1.31	11.5	15	0.03	0.44	0.49	0.93	0.4	0.12	0.52		3249	3249	0.14	0.11	0.07	3285
Average Daily (Max)																			
Unmit.	1.43		7.28	10.9	12.7	0.02	0.45	3.32	3.77	0.41	1.44	1.85		2778	2778	0.12	0.09	0.95	2809
Annual (Max)																			
Unmit.	0.26		1.33	1.99	2.31	< 0.005	0.08	0.61	0.69	0.08	0.26	0.34		460	460	0.02	0.02	0.16	465

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2025	4.02	3.38	31.7	31.2	0.06	1.37	19.8	21.2	1.26	10.1	11.4		6826	6826	0.27	0.11	2.83	6852
2026	1.49	1.23	10.8	15.3	0.03	0.39	0.49	0.87	0.35	0.12	0.47		3277	3277	0.13	0.11	2.58	3314
2027	1.42	1.19	10.3	15.1	0.03	0.34	0.49	0.83	0.32	0.12	0.44		3258	3258	0.13	0.1	2.33	3294
2028	0.87	52.1	6.66	10.7	0.01	0.26	0.15	0.41	0.24	0.04	0.27		1672	1672	0.06	0.01	0.49	1678
Daily - Winter (Max)																		
2025	1.55	1.28	11.5	15	0.03	0.44	0.49	0.93	0.4	0.12	0.52		3249	3249	0.14	0.11	0.07	3285
2026	1.46	1.22	10.9	14.8	0.03	0.39	0.49	0.87	0.36	0.12	0.47		3232	3232	0.14	0.11	0.07	3267
2027	1.41	1.16	10.3	14.6	0.03	0.34	0.49	0.83	0.32	0.12	0.44		3215	3215	0.13	0.1	0.06	3249
2028	1.35	1.31	9.81	14.5	0.03	0.31	0.49	0.8	0.28	0.12	0.4		3196	3196	0.13	0.1	0.05	3230
Average Daily																		
2025	1.43	1.19	10.9	11.5	0.02	0.45	3.32	3.77	0.41	1.44	1.85		2504	2504	0.1	0.04	0.38	2519
2026	1.25	1.04	9.29	12.7	0.02	0.33	0.41	0.74	0.3	0.1	0.4		2778	2778	0.12	0.09	0.95	2809
2027	1.21	0.99	8.84	12.6	0.02	0.29	0.41	0.7	0.27	0.1	0.37		2763	2763	0.11	0.09	0.86	2793
2028	0.26	7.28	1.93	2.96	< 0.005		0.07	0.07	0.14	0.06	0.02	0.08		551	551	0.02	0.01	0.13	555
Annual																		
2025	0.26	0.22	1.99	2.1	< 0.005		0.08	0.61	0.69	0.08	0.26	0.34		415	415	0.02	0.01	0.06	417
2026	0.23	0.19	1.7	2.31	< 0.005		0.06	0.07	0.14	0.06	0.02	0.07		460	460	0.02	0.02	0.16	465
2027	0.22	0.18	1.61	2.29	< 0.005		0.05	0.07	0.13	0.05	0.02	0.07		457	457	0.02	0.01	0.14	462
2028	0.05	1.33	0.35	0.54	< 0.005		0.01	0.01	0.03	0.01	< 0.005	0.01		91.2	91.2	< 0.005	< 0.005	0.02	91.9

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2025 max	4.02	3.38	31.7	31.2	0.06	1.37	19.8	21.2	1.26	10.1	11.4	0	415	415	0.02	0.01	0.06	417
2026 max	1.49	1.23	10.9	15.3	0.03	0.39	0.49	0.87	0.36	0.12	0.47	0	460	460	0.02	0.02	0.16	465
2027 max	1.42	1.19	10.3	15.1	0.03	0.34	0.49	0.83	0.32	0.12	0.44	0	457	457	0.02	0.01	0.14	462
2028 max	1.35	52.1	9.81	14.5	0.03	0.31	0.49	0.8	0.28	0.12	0.4	0	91.2	91.2	< 0.005	< 0.005	0.02	91.9

	Gasoline	Diesel
2025	23.25	845.68
2026	52	412.7
2027	51.1	411
2028	10.35	81.56

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	2.86	2.4	22.2	19.9	0.03	0.92		0.92	0.84		0.84		3425	3425	0.14	0.03		3437
Demolition							0	0		0	0							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.02	0.02	0.18	0.16	< 0.005		0.01		0.01	0.01		0.01	28.2	28.2	< 0.005	< 0.005		28.2
Demolition								0	0		0	0						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005		0.03	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	4.66	4.66	< 0.005	< 0.005		4.68
Demolition								0	0		0	0						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.07	0.06	0.04	0.9	0	0	0.15	0.15	0	0.04	0.04		170	170	< 0.005		0.01	0.65	173
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	1.28	1.28	< 0.005	< 0.005	< 0.005	1.29
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005	0.21	0.21	< 0.005	< 0.005	< 0.005	0.21
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.3. Site Preparation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	3.94	3.31	31.6	30.2	0.05	1.37		1.37	1.26		1.26		5295	5295	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.26	0.22	2.08	1.98	< 0.005		0.09		0.09	0.08		0.08	348	348	0.01	< 0.005		349
Dust From Material Movement								1.29	1.29		0.66	0.66						
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.05	0.04	0.38	0.36	< 0.005		0.02		0.02	0.02		0.02	57.6	57.6	< 0.005	< 0.005		57.8

Dust From Material Movement									0.24	0.24		0.12	0.12										
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Offsite																							
Daily, Summer (Max)																							
Worker	0.08	0.07	0.05	1.05	0	0	0.18	0.18	0	0.04	0.04		199	199	< 0.005		0.01	0.76	202				
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0				
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0				
Daily, Winter (Max)																							
Average Daily																							
Worker	< 0.005	< 0.005	< 0.005		0.05	0	0	0.01	0.01		0 < 0.005	< 0.005		11.9	11.9	< 0.005	< 0.005		0.02	12.1			
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Annual																							
Worker	< 0.005	< 0.005	< 0.005		0.01	0	0	< 0.005	< 0.005		0 < 0.005	< 0.005		1.97	1.97	< 0.005	< 0.005	< 0.005		2			
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				

3.5. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	3.8	3.2	29.7	28.3	0.06	1.23		1.23	1.14		1.14		6599	6599	0.27	0.05		6622
Dust From Material Movement							9.2	9.2		3.65	3.65							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.77	0.65	6.02	5.74	0.01	0.25		0.25	0.23		0.23		1338	1338	0.05	0.01		1342
Dust From Material Movement							1.87	1.87		0.74	0.74							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.14	0.12	1.1	1.05	< 0.005	0.05		0.05	0.04		0.04		221	221	0.01	< 0.005		222
Dust From Material Movement							0.34	0.34		0.14	0.14							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.09	0.08	0.06	1.21	0	0	0.2	0.2	0	0.05	0.05		227	227	< 0.005		0.01	0.87	230
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	0.02	0.02	0.01	0.18	0	0	0.04	0.04	0	0.01	0.01		41.9	41.9	< 0.005	< 0.005		0.08	42.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005		0.03	0	0	0.01	0.01		0 < 0.005	< 0.005		6.94	6.94	< 0.005	< 0.005		0.01	7.04		
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

3.7. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.35	1.13	10.4	13	0.02	0.43		0.43	0.4		0.4		2398	2398	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.3	0.25	2.35	2.94	0.01	0.1		0.1	0.09		0.09		541	541	0.02	< 0.005		542
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.06	0.05	0.43	0.54	< 0.005		0.02		0.02	0.02		0.02	89.5	89.5	< 0.005	< 0.005		89.8	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.16	0.15	0.1	2.15	0	0	0.36	0.36	0	0.08	0.08		405	405	0.01	0.01	1.55	411
Vendor	0.05	0.02	0.89	0.33	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		493	493	0.03	0.07	1.28	516
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.15	0.13	0.13	1.58	0	0	0.36	0.36	0	0.08	0.08		359	359	0.01	0.01	0.04	364
Vendor	0.05	0.02	0.95	0.34	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		492	492	0.03	0.07	0.03	515
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.03	0.03	0.03	0.36	0	0	0.08	0.08	0	0.02	0.02		83.1	83.1	< 0.005	< 0.005	0.15	84.3
Vendor	0.01	< 0.005	0.21	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		111	111	0.01	0.02	0.12	116
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	< 0.005		0.07	0	0	0.01	0.01		0 < 0.005	< 0.005		13.8	13.8	< 0.005	< 0.005		0.03	14		
Vendor	< 0.005	< 0.005		0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		18.4	18.4	< 0.005	< 0.005		0.02	19.2		
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.9. Building Construction (2026) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.28	1.07	9.85	13	0.02	0.38		0.38	0.35		0.35		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	1.1	0.92	8.45	11.1	0.02	0.32		0.32	0.3		0.3		2055	2055	0.08	0.02		2062
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.2	0.17	1.54	2.03	< 0.005		0.06		0.06	0.05		0.05	340	340	0.01	< 0.005		341	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.16	0.14	0.09	2.01	0	0	0.36	0.36	0	0.08	0.08		397	397	0.01	0.01	1.42	402
Vendor	0.05	0.02	0.83	0.32	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		483	483	0.03	0.07	1.16	506
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.13	0.13	0.12	1.48	0	0	0.36	0.36	0	0.08	0.08		352	352	0.01	0.01	0.04	357
Vendor	0.05	0.02	0.89	0.32	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		482	482	0.03	0.07	0.03	505
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.11	0.11	0.09	1.29	0	0	0.3	0.3	0	0.07	0.07		310	310	0.01	0.01	0.52	314
Vendor	0.04	0.01	0.75	0.28	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		414	414	0.03	0.06	0.43	433
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.02	0.24	0	0	0.06	0.06	0	0.01	0.01		51.3	51.3	< 0.005	< 0.005	0.09	52
Vendor	0.01	< 0.005	0.14	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		68.5	68.5	< 0.005	0.01	0.07	71.7
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Building Construction (2027) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.23	1.03	9.39	12.9	0.02	0.34		0.34	0.31		0.31		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	1.05	0.88	8.05	11.1	0.02	0.29		0.29	0.27		0.27		2055	2055	0.08	0.02		2062
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.19	0.16	1.47	2.02	< 0.005		0.05		0.05	0.05		0.05	340	340	0.01	< 0.005		341	
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.14	0.14	0.09	1.89	0	0	0.36	0.36	0	0.08	0.08		390	390	0.01	0.01	1.29	395
Vendor	0.05	0.02	0.78	0.31	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		472	472	0.03	0.07	1.04	494
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.13	0.11	0.12	1.39	0	0	0.36	0.36	0	0.08	0.08		346	346	0.01	0.01	0.03	351
Vendor	0.05	0.02	0.84	0.31	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		472	472	0.03	0.07	0.03	493
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.11	0.1	0.09	1.22	0	0	0.3	0.3	0	0.07	0.07		304	304	0.01	0.01	0.48	309
Vendor	0.04	0.01	0.7	0.26	< 0.005	0.01	0.11	0.11	0.01	0.03	0.03		404	404	0.02	0.06	0.39	423
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.02	0.02	0.02	0.22	0	0	0.06	0.06	0	0.01	0.01		50.4	50.4	< 0.005	< 0.005	0.08	51.1

Vendor	0.01	< 0.005	0.13	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		66.9	66.9	< 0.005	0.01	0.06	70
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Building Construction (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	1.18	0.99	8.92	12.9	0.02	0.3		0.3	0.28		0.28		2397	2397	0.1	0.02		2406
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.11	0.09	0.84	1.22	< 0.005	0.03		0.03	0.03		0.03		225	225	0.01	< 0.005		226
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.02	0.15	0.22	< 0.005	0.01		0.01	< 0.005		< 0.005		37.3	37.3	< 0.005	< 0.005		37.4
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.12	0.11	0.1	1.31	0	0	0.36	0.36	0	0.08	0.08		339	339	0.01	0.01	0.03	344
Vendor	0.05	0.02	0.78	0.3	< 0.005	0.01	0.13	0.14	0.01	0.03	0.04		459	459	0.03	0.07	0.02	480
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.13	0	0	0.03	0.03	0	0.01	0.01		32.7	32.7	< 0.005	< 0.005	0.05	33.1
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		43.1	43.1	< 0.005	0.01	0.04	45.2
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		5.41	5.41	< 0.005	< 0.005	0.01	5.48
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		7.14	7.14	< 0.005	< 0.005	0.01	7.48
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.15. Paving (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.82	0.69	6.63	9.91	0.01	0.26		0.26	0.24		0.24		1511	1511	0.06	0.01		1516
Paving		0.58																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.82	0.69	6.63	9.91	0.01	0.26		0.26	0.24		0.24		1511	1511	0.06	0.01		1516
Paving		0.58																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.11	0.09	0.89	1.33	< 0.005	0.03		0.03	0.03		0.03		203	203	0.01	< 0.005		204
Paving		0.08																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.02	0.16	0.24	< 0.005	0.01		0.01	0.01		0.01		33.6	33.6	< 0.005	< 0.005		33.7
Paving		0.01																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.05	0.03	0.75	0	0	0.15	0.15	0	0.04	0.04		161	161	< 0.005	< 0.005	0.49	161
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.05	0.04	0.55	0	0	0.15	0.15	0	0.04	0.04		143	143	< 0.005	0.01	0.01	145
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	0.01	0.08	0	0	0.02	0.02	0	< 0.005	< 0.005		19.7	19.7	< 0.005	< 0.005	0.03	19.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.25	3.25	< 0.005	< 0.005	< 0.005	3.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.17. Architectural Coating (2028) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.13	0.11	0.81	1.12	< 0.005	0.02		0.02	0.01		0.01		134	134	0.01	< 0.005		134
Architectural Coatings		52																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.02	0.01	0.11	0.15	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		17.9	17.9	< 0.005	< 0.005		18
Architectural Coatings		6.98																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.97	2.97	< 0.005	< 0.005		2.98
Architectural Coatings		1.27																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.02	0.02	0.36	0	0	0.07	0.07	0	0.02	0.02		76.3	76.3	< 0.005	< 0.005	0.23	76.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		9.34	9.34	< 0.005	< 0.005	0.01	9.47
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.55	1.55	< 0.005	< 0.005	< 0.005	1.57
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Demolition	Demolition	6/1/2025	6/4/2025	6	3	
Site Prepar	Site Prepar	6/5/2025	7/2/2025	6	24	
Grading	Grading	7/3/2025	9/26/2025	6	74	
Building Co	Building Co	9/27/2025	2/9/2028	6	742	
Paving	Paving	2/10/2028	4/6/2028	6	49	
Architectur	Architectur	4/7/2028	6/2/2028	6	49	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepowe	Load Factor
Demolition	Rubber Tir	Diesel	Average	2	8	367	0.4
Demolition	Excavators	Diesel	Average	3	8	36	0.38
Demolition	Concrete/I	Diesel	Average	1	8	33	0.73
Site Prepar	Rubber Tir	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lo	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	2	8	36	0.38
Grading	Tractors/Lo	Diesel	Average	2	8	84	0.37
Grading	Scrapers	Diesel	Average	2	8	423	0.48
Grading	Rubber Tir	Diesel	Average	1	8	367	0.4
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator	Diesel	Average	1	8	14	0.74
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lo	Diesel	Average	3	7	84	0.37
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way Tri	Miles per Trip	Vehicle Mix
Demolition				
Demolition	Worker	15	14.3	LDA,LDT1,LDT2
Demolition	Vendor		8.8	HHDT,MHDT
Demolition	Hauling	0	20	HHDT
Demolition	Onsite truck			HHDT
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	20	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	28.5	14.3	LDA,LDT1,LDT2
Building Co	Vendor	14.1	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	5.7	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential E	Non-Residenti	Non-Reside	Parking Area Coated (sq ft)
Architectur	0	0	505448	168483	28743

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material In	Material Exp	Acres Graded	Material Dr	Acres Paved (acres)
Demolition	0	0	0		
Site Preparation			36	0	
Grading			222	0	
Paving	0	0	0	0	11

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reduc	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
General Of	0	0
Free-Stand	0	0
Health Clul	0	0
High Turno	0	0
Other Non-	0.2	0
City Park	0	0
City Park	0	0
City Park	0	0
Free-Stand	0	0
Health Clul	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Of	0	0
Day-Care C	0	0
Day-Care C	0	0
Day-Care C	0	0
Health Clul	0	0
City Park	0	0
Fast Food F	0	0
Fast Food F	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Of	0	0
High Turno	0	0
Hospital	0	0
City Park	0	0
Automobili	0	0
Health Clul	0	0
Parking Lot	4.5	100
Parking Lot	6.3	100

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Yr	CO2	CH4	N2O
2025	0	295	0.01	< 0.005
2026	0	279	0.01	< 0.005
2027	0	267	0.01	< 0.005
2028	0	253	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Ha	Result for ITJnit
Temperatu	21.2 annual days of extreme heat
Extreme Pr	4.1 annual days with precipitation above 20 mm
Sea Level R	0 meters of inundation depth
Wildfire	0 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 m

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 m

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 (MIROCS). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164

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 (MIROCS). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7

6.2. Initial Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Caps	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	1	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Caps	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	1	1	1	2
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Si	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Waste	64.4
Sensitive Population	
Asthma	24.7
Cardio-vasc	32
Low Birth V	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployr	7.77

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 Pov	60.34903
Employed	0.526113
Median HI	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent ho	66.67522
Voting	91.95432
Neighborhood	
Alcohol avi	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc ren	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46
Healthy Pla	46
Project Loc	No
Project Loc	No
Project Loc	No

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

7.4. Health & Equity Measures

Measure T	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Points	Max Possible I	Weighted Score

7.6. Health & Equity Custom Measures

Measure T	Sponsor

8. User Changes to Default Data

Screen	Justification
Land Use	project description
	6 days per week, 36 month buildout
Constructio	
Operations	3,554,820 Gallons/year for the exhibits
Operations	3,554,820 Gallons/year for the exhibits

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 1B
Constructic	########
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.37848728111305, -121.38836479575[illegible]
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
City Park	0.06	Acre	0.06	0	2500	2500		Alligator
City Park	0.05	Acre	0.05	0	3100	3100		Squirrel Monkey
City Park	0.12	Acre	0.12	0	5100	5100		Lemur
City Park	0.34	Acre	0.34	0	15000	15000		Africa Aviary (birds)
City Park	0.25	Acre	0.25	0	7500	7500		Africa Aviary (okapi area)
City Park	0.08	Acre	0.08	0	3200	3200		Colobus Monkey
City Park	0.13	Acre	0.13	0	5800	5800		Giant Tortoise
Medical Of	7.8	1000sqft	0.18	5130				Animal Care Quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.33	1.05	10.1	10.7	0.03	0.31	0.36	0.57	0.29	0.09	0.35		2716	2716	0.16	0.16	1.9	2769
Daily, Winter (Max)																		
Unmit.	1.95	1.57	15.8	15.6	0.03	0.66	7.42	8.08	0.61	3.51	4.12		3449	3449	0.19	0.17	0.06	3503
Average Daily (Max)																		
Unmit.	1.14	0.9	8.76	9.13	0.02	0.27	0.56	0.66	0.24	0.26	0.35		2326	2326	0.13	0.14	0.7	2371
Annual (Max)																		
Unmit.	0.21	0.16	1.6	1.67	< 0.005	0.05	0.1	0.12	0.04	0.05	0.06		385	385	0.02	0.02	0.12	393

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2026	1.33		1.05	10.1	10.7	0.03	0.31	0.26	0.57	0.29	0.07	0.35	2716	2716	0.16	0.16	1.89	2769
2027	1.27		1	9.74	10.6	0.03	0.28	0.26	0.54	0.26	0.07	0.32	2694	2694	0.15	0.15	1.74	2745
2028	1.22		0.96	9.29	10.5	0.03	0.25	0.36	0.52	0.23	0.09	0.3	2670	2670	0.14	0.15	1.9	2719
Daily - Winter (Max)																		
2025	1.95		1.57	15.8	15.6	0.03	0.66	7.42	8.08	0.61	3.51	4.12	3449	3449	0.19	0.17	0.06	3503
2026	1.33		1.04	10.3	10.6	0.03	0.31	0.26	0.57	0.29	0.07	0.35	2713	2713	0.16	0.16	0.05	2765
2027	1.27		1	9.85	10.6	0.03	0.28	0.26	0.54	0.26	0.07	0.32	2692	2692	0.15	0.15	0.05	2741
2028	1.22		0.96	9.4	10.5	0.03	0.25	0.36	0.52	0.23	0.09	0.3	2668	2668	0.14	0.15	0.05	2716
Average Daily																		
2025	0.34		0.27	2.65	2.63	0.01	0.1	0.56	0.66	0.09	0.26	0.35	637	637	0.04	0.04	0.2	648
2026	1.14		0.9	8.76	9.13	0.02	0.27	0.22	0.48	0.24	0.06	0.3	2326	2326	0.13	0.14	0.7	2371
2027	1.09		0.86	8.42	9.07	0.02	0.24	0.22	0.46	0.22	0.06	0.28	2308	2308	0.13	0.13	0.64	2351
2028	0.85		0.76	6.69	7.57	0.02	0.17	0.23	0.4	0.16	0.06	0.22	1988	1988	0.11	0.13	0.6	2028
Annual																		
2025	0.06		0.05	0.48	0.48	< 0.005		0.02	0.1	0.12	0.02	0.05	0.06	105	105	0.01	0.01	0.03	107
2026	0.21		0.16	1.6	1.67	< 0.005		0.05	0.04	0.09	0.04	0.01	0.06	385	385	0.02	0.02	0.12	393
2027	0.2		0.16	1.54	1.65	< 0.005		0.04	0.04	0.08	0.04	0.01	0.05	382	382	0.02	0.02	0.11	389
2028	0.16		0.14	1.22	1.38	< 0.005		0.03	0.04	0.07	0.03	0.01	0.04	329	329	0.02	0.02	0.1	336

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2025 max	1.95	1.57	15.8	15.6	0.03	0.66	7.42	8.08	0.61	3.51	4.12	0	105	105	0.01	0.01	0.03	107
2026 max	1.33	1.05	10.3	10.7	0.03	0.31	0.26	0.57	0.29	0.07	0.35	0	385	385	0.02	0.02	0.12	393
2027 max	1.27	1	9.85	10.6	0.03	0.28	0.26	0.54	0.26	0.07	0.32	0	382	382	0.02	0.02	0.11	389
2028 max	1.22	0.96	9.4	10.5	0.03	0.25	0.36	0.52	0.23	0.09	0.3	0	329	329	0.02	0.02	0.1	336

	Gasoline	Diesel
2025	1.59	105.77
2026	2.4	389.54
2027	2.35	386.46
2028	4.23	331.93

3. Construction Emissions Details

3.1. Site Preparation (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	1.56		1.31	12.1	12.1	0.02	0.56		0.56	0.52		0.52	2065	2065	0.08	0.02		2072
Dust From Material Movement								6.27	6.27		3	3						
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.04		0.03	0.3	0.3	< 0.005		0.01		0.01	0.01		50.9	50.9	< 0.005	< 0.005		51.1
Dust From Material Movement								0.15	0.15		0.07	0.07						
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.01		0.01	0.05	0.05	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	8.43	8.43	< 0.005	< 0.005		8.46
Dust From Material Movement								0.03	0.03		0.01	0.01						
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.03		0.03	0.03	0.33	0	0	0.08	0.08	0	0.02	0.02	75.6	75.6	< 0.005	< 0.005	0.01	76.5
Vendor	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.11		0.02	1.74	0.63	0.01	0.02	0.23	0.25	0.02	0.06	0.08	897	897	0.09	0.14	0.05	942
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005		0.01	0	0	< 0.005	< 0.005		0	< 0.005	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005		0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.1	22.1	< 0.005	< 0.005	0.02	23.2
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005		0	0	< 0.005	< 0.005		0	< 0.005	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005		0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.66	3.66	< 0.005	< 0.005	< 0.005	3.85

3.3. Grading (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	1.8		1.51	14.1	14.5	0.02	0.64		0.64	0.59		0.59	2455	2455	0.1	0.02		2463
Dust From Material Movement								7.09	7.09		3.43	3.43						
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.09		0.07	0.69	0.72	< 0.005		0.03		0.03	0.03		121	121	< 0.005	< 0.005		121
Dust From Material Movement								0.35	0.35		0.17	0.17						
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.02		0.01	0.13	0.13	< 0.005		0.01		0.01	0.01		20	20	< 0.005	< 0.005		20.1
Dust From Material Movement								0.06	0.06		0.03	0.03						
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04		0.04	0.04	0.44	0	0	0.1	0.1	0	0.02	0.02	101	101	< 0.005	< 0.005	0.01	102
Vendor	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.11		0.02	1.73	0.63	0.01	0.02	0.23	0.25	0.02	0.06	0.08	893	893	0.09	0.14	0.05	937
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005		0.02	0	0	< 0.005	< 0.005		0	< 0.005	5.1	5.1	< 0.005	< 0.005	0.01	5.17
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0.01	< 0.005		0.08	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	44	44	< 0.005	0.01	0.04	46.3
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005		0	0	< 0.005	< 0.005		0	< 0.005	0.84	0.84	< 0.005	< 0.005	< 0.005	0.86
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	< 0.005	< 0.005		0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	7.29	7.29	< 0.005	< 0.005	0.01	7.66

3.5. Building Construction (2025) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	1.28		1.07	8.95	10	0.02	0.33		0.33	0.3		0.3	1801	1801	0.07	0.01		1807
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.18		0.15	1.28	1.44	< 0.005		0.05		0.05	0.04		0.04	258	258	0.01	< 0.005		259
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	0.03		0.03	0.23	0.26	< 0.005		0.01		0.01	0.01		0.01	42.7	42.7	< 0.005	< 0.005		42.9
Onsite truc	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01		0.01	0.01	0.07	0	0	0.02	0.02	0	< 0.005	< 0.005	16.5	16.5	< 0.005	< 0.005	< 0.005	16.8
Vendor	< 0.005	< 0.005		0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	24.3	24.3	< 0.005	< 0.005	< 0.005	25.4
Hauling	0.11		0.02	1.73	0.62	0.01	0.02	0.23	0.24	0.02	0.06	0.08	892	892	0.09	0.14	0.05	936
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005		0.01	0	0	< 0.005	< 0.005		0	< 0.005	2.43	2.43	< 0.005	< 0.005	< 0.005	2.47
Vendor	< 0.005	< 0.005		0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.48	3.48	< 0.005	< 0.005	< 0.005	3.65
Hauling	0.02	< 0.005		0.24	0.09	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	128	128	0.01	0.02	0.12	134
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005		0	0	< 0.005	< 0.005		0	< 0.005	0.4	0.4	< 0.005	< 0.005	< 0.005	0.41
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.58	0.58	< 0.005	< 0.005	< 0.005	0.6
Hauling	< 0.005	< 0.005		0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	21.1	21.1	< 0.005	< 0.005	0.02	22.2

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 1C
Constructic	1/1/2029
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.378268508056266, -121.38767164800085
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
City Park	1.17	Acre	1.17	0	45500	45500		Savanna North
City Park	0.55	Acre	0.55	0	25000	25000		Wild Dog
City Park	0.56	Acre	0.56	0	24500	24500		Hippo
City Park	0.99	Acre	0.99	0	41000	41000		African Ape
Medical Of	20	1000sqft	0.46	20000	20000			Animal Care Quarters
Hotel	4	Room	0.13	4100				Guest suites, 3 @ 900 sf, 1 @ 1400

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.19	0.99	8.76	13.3	0.02	0.28	0.2	0.39	0.26	0.05	0.28		2586	2586	0.1	0.04	0.43	2599
Daily, Winter (Max)																		
Unmit.	3.59	3.02	26	28.7	0.05	1.09	19.8	20.9	1	10.1	11.1		5459	5459	0.22	0.05	0.01	5480
Average Daily (Max)																		
Unmit.	1.23	1.03	8.99	12.8	0.02	0.31	1.98	2.3	0.29	0.97	1.26		2439	2439	0.1	0.03	0.16	2452
Annual (Max)																		
Unmit.	0.22	0.19	1.64	2.33	< 0.005	0.06	0.36	0.42	0.05	0.18	0.23		404	404	0.02	0.01	0.03	406

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2029	1.19	0.99	8.76	13.3	0.02	0.28	0.11	0.39	0.26	0.03	0.28		2586	2586	0.1	0.04	0.43	2599
2030	1.16	0.97	8.56	13.3	0.02	0.26	0.11	0.37	0.24	0.03	0.27		2581	2581	0.1	0.04	0.38	2594
2031	1.13	0.95	8.27	13.2	0.02	0.24	0.11	0.36	0.22	0.03	0.25		2576	2576	0.1	0.03	0.33	2589
2032	1.1	0.92	8.01	13.2	0.02	0.22	0.2	0.37	0.21	0.05	0.23		2571	2571	0.1	0.03	0.41	2584
Daily - Winter (Max)																		
2029	3.59	3.02	26	28.7	0.05	1.09	19.8	20.9	1	10.1	11.1		5459	5459	0.22	0.05	0.01	5480
2030	1.16	0.97	8.57	13.2	0.02	0.26	0.11	0.37	0.24	0.03	0.27		2571	2571	0.1	0.04	0.01	2585
2031	1.13	0.94	8.28	13.2	0.02	0.24	0.11	0.36	0.22	0.03	0.25		2566	2566	0.1	0.04	0.01	2580
2032	1.1	0.92	8.03	13.1	0.02	0.22	0.11	0.34	0.21	0.03	0.23		2562	2562	0.1	0.03	0.01	2574
Average Daily																		
2029	1.23	1.03	8.99	12.8	0.02	0.31	1.98	2.3	0.29	0.97	1.26		2439	2439	0.1	0.03	0.16	2452
2030	0.99	0.83	7.34	11.3	0.02	0.22	0.09	0.32	0.21	0.02	0.23		2206	2206	0.09	0.03	0.14	2217
2031	0.97	0.81	7.1	11.3	0.02	0.21	0.09	0.3	0.19	0.02	0.22		2201	2201	0.09	0.03	0.12	2213
2032	0.65	0.54	4.71	7.78	0.01	0.13	0.09	0.23	0.12	0.02	0.14		1439	1439	0.06	0.02	0.09	1445
Annual																		
2029	0.22	0.19	1.64	2.33	< 0.005	0.06	0.36	0.42	0.05	0.18	0.23		404	404	0.02	0.01	0.03	406
2030	0.18	0.15	1.34	2.07	< 0.005	0.04	0.02	0.06	0.04	< 0.005	0.04		365	365	0.01	0.01	0.02	367
2031	0.18	0.15	1.3	2.06	< 0.005	0.04	0.02	0.06	0.04	< 0.005	0.04		364	364	0.01	< 0.005	0.02	366
2032	0.12	0.1	0.86	1.42	< 0.005	0.02	0.02	0.04	0.02	< 0.005	0.03		238	238	0.01	< 0.005	0.02	239

3. Construction Emissions Details

3.1. Site Preparation (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	3.53	2.97	25.9	28.1	0.05	1.09		1.09	1		1		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.21	0.18	1.56	1.69	< 0.005	0.07		0.07	0.06		0.06		319	319	0.01	< 0.005		320
Dust From Material Movement							1.18	1.18		0.61	0.61							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.04	0.03	0.29	0.31	< 0.005	0.01		0.01	0.01		0.01		52.8	52.8	< 0.005	< 0.005		53
Dust From Material Movement							0.22	0.22		0.11	0.11							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.06	0.05	0.05	0.6	0	0	0.18	0.18	0	0.04	0.04		163	163	< 0.005	0.01	0.01	166
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		10.1	10.1	< 0.005	< 0.005	0.01	10.2
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.67	1.67	< 0.005	< 0.005	< 0.005	1.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	1.8	1.52	13	17.2	0.03	0.53		0.53	0.49		0.49		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.18	0.15	1.28	1.7	< 0.005	0.05		0.05	0.05		0.05		292	292	0.01	< 0.005		293
Dust From Material Movement							0.7	0.7		0.34	0.34							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.03	0.03	0.23	0.31	< 0.005	0.01		0.01	0.01		0.01		48.3	48.3	< 0.005	< 0.005		48.5
Dust From Material Movement							0.13	0.13		0.06	0.06							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.05	0.04	0.04	0.52	0	0	0.15	0.15	0	0.04	0.04		140	140	< 0.005	0.01	0.01	142
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.01	0.01	0	< 0.005	< 0.005		14.2	14.2	< 0.005	< 0.005	0.02	14.4
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.35	2.35	< 0.005	< 0.005	< 0.005	2.38
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2029) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.15	0.97	8.58	12.9	0.02	0.28		0.28	0.25		0.25		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.81	0.68	6.01	9.03	0.02	0.19		0.19	0.18		0.18		1677	1677	0.07	0.01		1683
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.15	0.12	1.1	1.65	< 0.005	0.04		0.04	0.03		0.03		278	278	0.01	< 0.005		279

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2029 max	3.59	3.02	26	28.7	0.05	1.09	19.8	20.9	1	10.1	11.1	0	404	404	0.02	0.01	0.03	406
2030 max	1.16	0.97	8.57	13.3	0.02	0.26	0.11	0.37	0.24	0.03	0.27	0	365	365	0.01	0.01	0.02	367
2031 max	1.13	0.95	8.28	13.2	0.02	0.24	0.11	0.36	0.22	0.03	0.25	0	364	364	0.01	< 0.005	0.02	366
2032 max	1.1	0.92	8.03	13.2	0.02	0.22	0.2	0.37	0.21	0.05	0.23	0	238	238	0.01	< 0.005	0.02	239

	Gasoline	Diesel
2029	13.22	393
2030	10.9	355.9
2031	10.7	355.3
2032	12.4	227.39

Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																						
Daily, Summer (Max)																						
Worker	0.03	0.03	0.02	0.38	0	0	0.08	0.08	0	0.02	0.02		85.4	85.4	< 0.005	< 0.005		0.24	85.8			
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		103	103	0.01	0.02		0.19	108			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Daily, Winter (Max)																						
Worker	0.03	0.02	0.02	0.28	0	0	0.08	0.08	0	0.02	0.02		75.9	75.9	< 0.005	< 0.005		0.01	76.9			
Vendor	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		103	103	0.01	0.02	< 0.005		108			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Average Daily																						
Worker	0.02	0.02	0.01	0.2	0	0	0.06	0.06	0	0.01	0.01		54.5	54.5	< 0.005	< 0.005		0.07	55.2			
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		72.3	72.3	< 0.005	0.01		0.06	75.7			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Annual																						
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		9.02	9.02	< 0.005	< 0.005		0.01	9.14			
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		12	12	< 0.005	< 0.005		0.01	12.5			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			

3.7. Building Construction (2030) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.12	0.94	8.39	12.9	0.02	0.26		0.26	0.24		0.24		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.96	0.81	7.19	11	0.02	0.22		0.22	0.21		0.21		2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.18	0.15	1.31	2.02	< 0.005		0.04		0.04	0.04		0.04	340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.01	0.36	0	0	0.08	0.08	0	0.02	0.02		83.9	83.9	< 0.005	< 0.005		0.21	84.3			
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		99.9	99.9	0.01	0.02		0.16	105			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.27	0	0	0.08	0.08	0	0.02	0.02		74.6	74.6	< 0.005	< 0.005		0.01	75.5			
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		99.9	99.9	0.01	0.02	< 0.005		105			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Average Daily																		
Worker	0.02	0.02	0.02	0.23	0	0	0.07	0.07	0	0.02	0.02		65.6	65.6	< 0.005	< 0.005		0.08	65.8			
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		85.6	85.6	< 0.005	0.01		0.06	89.7			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		10.9	10.9	< 0.005	< 0.005		0.01	10.9			
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		14.2	14.2	< 0.005	< 0.005		0.01	14.9			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			

3.9. Building Construction (2031) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.1	0.92	8.12	12.8	0.02	0.24		0.24	0.22		0.22		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.94	0.79	6.96	11	0.02	0.21		0.21	0.19		0.19		2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.17	0.14	1.27	2.01	< 0.005		0.04		0.04	0.04		0.04	340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.01	0.34	0	0	0.08	0.08	0	0.02	0.02		82.5	82.5	< 0.005	< 0.005		0.19	82.9			
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		96.2	96.2	0.01	0.01		0.14	101			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.25	0	0	0.08	0.08	0	0.02	0.02		73.4	73.4	< 0.005	< 0.005	< 0.005		74.3			
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		96.2	96.2	0.01	0.01	< 0.005		101			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Average Daily																		
Worker	0.02	0.02	0.01	0.22	0	0	0.07	0.07	0	0.02	0.02		64.5	64.5	< 0.005	< 0.005		0.07	64.8			
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01		82.5	82.5	< 0.005	0.01		0.05	86.4			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.04	0	0	0.01	0.01	0	< 0.005	< 0.005		10.7	10.7	< 0.005	< 0.005		0.01	10.7			
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		13.7	13.7	< 0.005	< 0.005		0.01	14.3			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			

3.11. Building Construction (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.07	0.9	7.87	12.8	0.02	0.22		0.22	0.21		0.21		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.44	0.37	3.27	5.32	0.01	0.09		0.09	0.09		0.09		996	996	0.04	0.01		1000
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.08	0.07	0.6	0.97	< 0.005		0.02		0.02	0.02		0.02	165	165	0.01	< 0.005		166
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.02	0.02	0.01	0.32	0	0	0.08	0.08	0	0.02	0.02		81.3	81.3	< 0.005	< 0.005		0.17	81.6			
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		92.6	92.6	< 0.005	0.01		0.12	97			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.24	0	0	0.08	0.08	0	0.02	0.02		72.3	72.3	< 0.005	< 0.005	< 0.005		72.5			
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		92.7	92.7	< 0.005	0.01	< 0.005		96.9			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Average Daily																		
Worker	0.01	0.01	0.01	0.1	0	0	0.03	0.03	0	0.01	0.01		30.8	30.8	< 0.005	< 0.005		0.03	30.9			
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005			38.5	38.5	< 0.005	0.01		0.02	40.3			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		5.1	5.1	< 0.005	< 0.005	< 0.005		5.12			
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		6.38	6.38	< 0.005	< 0.005	< 0.005		6.67			
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0		0	0			

3.13. Paving (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.68	0.57	5.4	8.77	0.01	0.17		0.17	0.15		0.15		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Average Daily																		
Off-Road E	0.15	0.13	1.2	1.95	< 0.005		0.04		0.04	0.03		0.03	300	300	0.01	< 0.005		301
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.03	0.02	0.22	0.35	< 0.005		0.01		0.01	0.01		0.01	49.6	49.6	< 0.005	< 0.005		49.8
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.06	0.06	0.03	0.8	0	0	0.2	0.2	0	0.05	0.05		200	200	< 0.005	< 0.005		0.41	201			
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0				
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0				
Daily, Winter (Max)																		
Average Daily																		
Worker	0.01	0.01	0.01	0.13	0	0	0.04	0.04	0	0.01	0.01		40.5	40.5	< 0.005	< 0.005		0.04	40.7			
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0				
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0				

Annual

Worker	< 0.005	< 0.005	< 0.005		0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.71	6.71	< 0.005	< 0.005		0.01	6.73
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

3.15. Architectural Coating (2032) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.11	0.09	0.77	1.1	< 0.005	0.01		0.01	0.01		0.01	134	134	0.01	< 0.005			134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.11	0.09	0.77	1.1	< 0.005	0.01		0.01	0.01		0.01	134	134	0.01	< 0.005			134
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Off-Road E	0.02	0.02	0.17	0.24	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	29.6	29.6	< 0.005	< 0.005			29.7
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	4.91	4.91	< 0.005	< 0.005			4.92
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	< 0.005	< 0.005	< 0.005		0.06	0	0	0.02	0.02	0	< 0.005	< 0.005		16.3	16.3	< 0.005	< 0.005		0.03	16.3
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	< 0.005	< 0.005	< 0.005		0.05	0	0	0.02	0.02	0	< 0.005	< 0.005		14.5	14.5	< 0.005	< 0.005	< 0.005		14.5
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005		0.01	0	0	< 0.005	< 0.005		0	< 0.005	< 0.005		3.29	3.29	< 0.005	< 0.005	< 0.005		3.3
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																				
Worker	< 0.005	< 0.005	< 0.005	< 0.005		0	0	< 0.005	< 0.005		0	< 0.005	< 0.005		0.54	0.54	< 0.005	< 0.005	< 0.005		0.55
Vendor	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2029	1/25/2029	6	22	
Grading	Grading	1/26/2029	3/8/2029	6	36	
Building Co	Building Co	3/9/2029	6/25/2032	6	1033	
Paving	Paving	6/26/2032	9/28/2032	6	81	
Architectur	Architectur	9/29/2032	12/31/2032	6	81	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepow	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lc	Diesel	Average	3	8	84	0.37
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator	Diesel	Average	1	8	14	0.74
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lc	Diesel	Average	3	7	84	0.37
Paving	Tractors/Lc	Diesel	Average	1	8	84	0.37
Paving	Cement an	Diesel	Average	2	6	10	0.56
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way Trip	Miles per Tri	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	7.78	14.3	LDA,LDT1,LDT2
Building Co	Vendor	3.98	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	20	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	1.56	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles
5.4.1. Construction Vehicle Control Strategies
Control Str PM10 Red PM2.5 Reduction

5.5. Architectural Coatings
Phase Nam Residential Residential Ex Non-Residen Non-Residi Parking Area Coated (sq ft)

5.6. Dust Mitigation
5.6.1. Construction Earthmoving Activities
Phase Nam Material Im Material Exp Acres Grader Material D Acres Paved (acres)
Site Preparation 33 0
Grading 36 0
Paving 0 0 0 0 0 0

5.6.2. Construction Earthmoving Control Strategies
Control Str Frequency PM10 Reduct PM2.5 Reduction

5.7. Construction Paving
Land Use Area Paved % Asphalt
City Park 0 0
City Park 0 0
City Park 0 0
City Park 0 0
Medical Of 0 0

5.8. Construction Electricity Consumption and Emissions Factors
Year kWh per Y CO2 CH4 N2O
2029 0 375 0.01 < 0.005
2030 0 375 0.01 < 0.005
2031 0 375 0.01 < 0.005
2032 0 375 0.01 < 0.005

5.18. Vegetation
5.18.1. Land Use Change
5.18.1.1. Unmitigated
Vegetation Vegetation Initial Acres Final Acres

5.18.1. Biomass Cover Type
5.18.1.1. Unmitigated
Biomass Cc Initial Acre Final Acres

5.18.2. Sequestration
5.18.2.1. Unmitigated
Tree Type Number Electricity Sav Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report
6.1. Climate Risk Summary
Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100
Climate Ha Result for P Unit
Temperatu 19.8 annual days of extreme heat
Extreme Pr 5 annual days with precipitation above 20 mm
Sea Level R 0 meters of inundation depth
Wildfire 0 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 m
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 m
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 (MIROCS). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164
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 (MIROCS). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7

6.2. Initial Climate Risk Scores
Climate Ha Exposure S Sensitivity Sc Adaptive Cap Vulnerability Score
Temperatu 1 0 0 N/A
Extreme Pr 2 0 0 N/A
Sea Level R N/A N/A N/A N/A
Wildfire 1 0 0 N/A
Flooding 0 0 0 N/A
Drought 0 0 0 N/A
Snowpack N/A N/A N/A N/A
Air Quality 0 0 0 N/A
The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores
Climate Ha Exposure S Sensitivity Sc Adaptive Cap Vulnerability Score
Temperatu 1 1 1 2
Extreme Pr 2 1 1 3
Sea Level R N/A N/A N/A N/A
Wildfire 1 1 1 2
Flooding 1 1 1 2
Drought 1 1 1 2
Snowpack N/A N/A N/A N/A
Air Quality 1 1 1 2
The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures
7. Health and Equity Details
7.1. CalEnviroScreen 4.0 Scores
The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state
Indicator Result for Project Census Tract
Exposure Indicators
AQ-Ozone 45.1
AQ-PM 37.5
AQ-DPM 24.8
Drinking W 69.9
Lead Risk H 5.61
Pesticides 76.5
Toxic Relea 13.1
Traffic 58.7
Effect Indicators
CleanUp Si 61.8
Groundwat 82.1
Haz Waste 67.6
Impaired W 94.6
Solid Waste 64.4
Sensitive Population
Asthma 24.7
Cardio-vasc 32
Low Birth W 77.8
Socioeconomic Factor Indicators
Education 41.6
Housing 42.8
Linguistic 26.4
Poverty 13
Unemployr 7.77

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 Pov 60.34903
Employed 0.526113
Median HI 67.31682
Education
Bachelor's 51.50776
High schoo 19.24804
Preschool e 95.7141
Transportation
Auto Acces 43.3081
Active com 34.86462
Social
2-parent ho 66.67522
Voting 91.95432
Neighborhood
Alcohol avi 90.56846
Park access 6.351854
Retail dens 9.162069
Supermark 36.13499
Tree canop 25.22777
Housing
Homeowne 70.21686
Housing ha 88.97729
Low-inc ho 91.58219

Low-inc rer	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (ex	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46
Healthy Pla	46
Project Loc No	
Project Loc No	
Project Loc No	

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

7.4. Health & Equity Measures

Measure T	Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Points E	Max Possible	Weighted Score

7.6. Health & Equity Custom Measures

Measure T	Sponsor

8. User Changes to Default Data

Screen	Justification
Constructic	Project description and 6 days a week

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 2
Constructic	1/1/2033
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.37955344542385, -121.38815261874641
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
Hospital	11	1000sqft	0.25	11000				Rehab and rescue facility
Fast Food F	0.5	1000sqft	0.01	500				food kiosk
Health Clul	1.8	1000sqft	0.04	1800				restrooms
General Of	6.4	1000sqft	0.15	6400				deserts interior exhibits
Recreation	18.6	1000sqft	0	0				freshwater interior exhibits
Day-Care C	9	1000sqft	0.21	9000				educational building
City Park	0.05	Acre	0.05	0	2100	2100		beaver
City Park	0.29	Acre	0.29	0	12700	12700		big horn sheep
City Park	0.05	Acre	0.05	0	2100	2100		bobcat
General Of	2	1000sqft	0.05	2000				California Deserts Interior
City Park	0.09	Acre	0.09	0	4000	4000		eagle and fish
City Park	0.96	Acre	0.96	0	42000	42000		elk meadow
City Park	0.83	Acre	0.83	0	36000	36000		grizzly bear
City Park	0.19	Acre	0.19	0	8300	8300		river otter
General Of	0.5	1000sqft	0.01	500				California sierra nevada mountains exhibit
Medical Of	11.5	1000sqft	0.26	11500				animal care quarters
City Park	0.1	Acre	0.1	0	5000	5000		changing exhibits

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.1	0.92	7.9	13.4	0.02	0.2	0.2	0.41	0.19	0.05	0.24		2701	2701	0.11	0.04	0.44	2717
Daily, Winter (Max)																		
Unmit.	3.17	7.52	21.2	24.9	0.05	0.86	19.8	20.7	0.79	10.1	10.9		5450	5450	0.22	0.04	0.01	5468
Average Daily (Max)																		
Unmit.	1.03	1.46	7.33	11.9	0.02	0.21	1.11	1.31	0.19	0.51	0.7		2406	2406	0.1	0.04	0.16	2420
Annual (Max)																		
Unmit.	0.19	0.27	1.34	2.17	< 0.005	0.04	0.2	0.24	0.03	0.09	0.13		398	398	0.02	0.01	0.03	401

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2033 max	3.17	2.67	21.2	24.9	0.05	0.86	19.8	20.7	0.79	10.1	10.9	0	398	398	0.02	0.01	0.03	401
2034 max	1.08	7.52	7.76	13.4	0.02	0.19	0.2	0.39	0.18	0.05	0.23	0	313	313	0.01	< 0.005	0.02	315

	Gasoline	Diesel
2033	19.1	382
2034	17.61	296.83

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2033	1.1	0.92	7.9	13.4	0.02	0.2	0.2	0.41	0.19	0.05	0.24		2701	2701	0.11	0.04	0.44	2717
2034	1.08	0.91	7.74	13.4	0.02	0.19	0.2	0.39	0.18	0.05	0.23		2693	2693	0.11	0.04	0.38	2709
Daily - Winter (Max)																		
2033	3.17	2.67	21.2	24.9	0.05	0.86	19.8	20.7	0.79	10.1	10.9		5450	5450	0.22	0.04	0.01	5468
2034	1.08	7.52	7.76	13.3	0.02	0.19	0.2	0.39	0.18	0.05	0.23		2677	2677	0.11	0.04	0.01	2693
Average Daily																		
2033	1.03	0.86	7.33	11.9	0.02	0.21	1.11	1.31	0.19	0.51	0.7		2406	2406	0.1	0.04	0.16	2420
2034	0.78	1.46	5.6	9.59	0.02	0.14	0.15	0.29	0.13	0.04	0.17		1891	1891	0.07	0.03	0.12	1901
Annual																		
2033	0.19	0.16	1.34	2.17	< 0.005	0.04	0.2	0.24	0.03	0.09	0.13		398	398	0.02	0.01	0.03	401
2034	0.14	0.27	1.02	1.75	< 0.005	0.03	0.03	0.05	0.02	0.01	0.03		313	313	0.01	< 0.005	0.02	315

3. Construction Emissions Details

3.1. Site Preparation (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	3.13	2.63	21.2	24.4	0.05	0.86		0.86	0.79		0.79		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.09	0.08	0.64	0.73	< 0.005	0.03		0.03	0.02		0.02		160	160	0.01	< 0.005		160
Dust From Material Movement							0.59	0.59		0.3	0.3							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.01	0.12	0.13	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		26.4	26.4	< 0.005	< 0.005		26.5
Dust From Material Movement							0.11	0.11		0.06	0.06							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.49	0	0	0.18	0.18	0	0.04	0.04		154	154	< 0.005	< 0.005	0.01	154
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		4.75	4.75	< 0.005	< 0.005	< 0.005	4.76
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.79	0.79	< 0.005	< 0.005	< 0.005	0.79
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	1.59	1.34	10.9	16	0.03	0.42		0.42	0.38		0.38		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.08	0.07	0.54	0.79	< 0.005	0.02		0.02	0.02		0.02		146	146	0.01	< 0.005		146
Dust From Material Movement							0.35	0.35		0.17	0.17							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.1	0.14	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		24.2	24.2	< 0.005	< 0.005		24.2
Dust From Material Movement							0.06	0.06		0.03	0.03							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.42	0	0	0.15	0.15	0	0.04	0.04		132	132	< 0.005	< 0.005	0.01	132
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.66	6.66	< 0.005	< 0.005	0.01	6.68
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.1	1.1	< 0.005	< 0.005	< 0.005	1.11
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Building Construction (2033) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.05	0.88	7.67	12.8	0.02	0.2		0.2	0.19		0.19		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		

Off-Road E	0.81	0.68	5.96	9.93	0.02	0.16		0.16	0.15		0.15	1863	1863	0.08	0.02		1869					
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Annual																						
Off-Road E	0.15	0.12	1.09	1.81	< 0.005	0.03		0.03	0.03		0.03	308	308	0.01	< 0.005		310					
Onsite truc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Offsite																						
Daily, Summer (Max)																						
Worker	0.04	0.04	0.02	0.56	0	0	0.15	0.15	0	0.04	0.04	146	146	< 0.005	< 0.005	0.26	147					
Vendor	0.01	0.01	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	158	158	0.01	0.02	0.18	166					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Daily, Winter (Max)																						
Worker	0.04	0.04	0.03	0.41	0	0	0.15	0.15	0	0.04	0.04	130	130	< 0.005	< 0.005	0.01	130					
Vendor	0.01	0.01	0.23	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	158	158	0.01	0.02	< 0.005	166					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Average Daily																						
Worker	0.03	0.03	0.02	0.33	0	0	0.11	0.11	0	0.03	0.03	104	104	< 0.005	< 0.005	0.09	104					
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	123	123	0.01	0.02	0.06	129					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Annual																						
Worker	0.01	0.01	< 0.005	0.06	0	0	0.02	0.02	0	< 0.005	< 0.005	17.1	17.1	< 0.005	< 0.005	0.01	17.2					
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	20.3	20.3	< 0.005	< 0.005	0.01	21.3					
Hauling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					

3.7. Building Construction (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.03	0.86	7.52	12.8	0.02	0.19		0.19	0.18		0.18		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.66	0.55	4.79	8.13	0.01	0.12		0.12	0.11		0.11		1525	1525	0.06	0.01		1531
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.12	0.1	0.87	1.48	< 0.005	0.02		0.02	0.02		0.02		253	253	0.01	< 0.005		253
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.04	0.04	0.02	0.54	0	0	0.15	0.15	0	0.04	0.04		144	144	< 0.005	< 0.005	0.23	145
Vendor	0.01	< 0.005	0.2	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		152	152	0.01	0.02	0.15	159
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.4	0	0	0.15	0.15	0	0.04	0.04		128	128	< 0.005	< 0.005	0.01	128
Vendor	0.01	< 0.005	0.22	0.1	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		152	152	0.01	0.02	< 0.005	159
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.26	0	0	0.09	0.09	0	0.02	0.02		83.6	83.6	< 0.005	< 0.005	0.06	83.9
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01		96.9	96.9	< 0.005	0.01	0.04	101
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.02	0.02	0	< 0.005	< 0.005		13.8	13.8	< 0.005	< 0.005	0.01	13.9
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16	16	< 0.005	< 0.005	0.01	16.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Paving (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.65	0.54	5.29	8.74	0.01	0.15		0.15	0.14		0.14		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.65	0.54	5.29	8.74	0.01	0.15		0.15	0.14		0.14		1350	1350	0.05	0.01		1354
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.07	0.06	0.58	0.96	< 0.005	0.02		0.02	0.02		0.02		148	148	0.01	< 0.005		148
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.01	0.01	0.11	0.17	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		24.5	24.5	< 0.005	< 0.005		24.6
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.05	0.03	0.73	0	0	0.2	0.2	0	0.05	0.05		195	195	< 0.005	< 0.005	0.31	196
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.05	0.04	0.54	0	0	0.2	0.2	0	0.05	0.05		173	173	< 0.005	< 0.005	0.01	174
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	0.01	< 0.005	0.06	0	0	0.02	0.02	0	0.01	0.01		19.5	19.5	< 0.005	< 0.005	0.01	19.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.22	3.22	< 0.005	< 0.005	< 0.005	3.23
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Architectural Coating (2034) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.11	0.09	0.76	1.1	< 0.005	0.01		0.01	0.01		0.01		134	134	0.01	< 0.005		134
Architectural Coatings		7.42																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.01	0.01	0.08	0.12	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		14.6	14.6	< 0.005	< 0.005		14.7
Architectural Coatings		0.81																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005		0.02	0.02	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.42	2.42	< 0.005	< 0.005		2.43
Architectural Coatings		0.15																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.08	0	0	0.03	0.03	0	0.01	0.01		25.6	25.6	< 0.005	< 0.005	< 0.005	25.7
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.88	2.88	< 0.005	< 0.005	< 0.005	2.89
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.48	0.48	< 0.005	< 0.005	< 0.005	0.48
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2033	1/13/2033	6	11	
Grading	Grading	1/14/2033	2/3/2033	6	18	
Building Co	Building Co	2/4/2033	9/28/2034	6	516	
Paving	Paving	9/29/2034	11/14/2034	6	40	
Architectur	Architectur	11/15/2034	12/30/2034	6	40	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per D	Horsepow	Load Factor
Site Prepar	Rubber Tire	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lo	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lo	Diesel	Average	3	8	84	0.37
Grading	Rubber Tire	Diesel	Average	1	8	367	0.4
Building Co	Cranes	Diesel	Average	1	7	367	0.29
Building Co	Forklifts	Diesel	Average	3	8	82	0.2
Building Co	Generator	Diesel	Average	1	8	14	0.74
Building Co	Welders	Diesel	Average	1	8	46	0.45
Building Co	Tractors/Lo	Diesel	Average	3	7	84	0.37
Paving	Tractors/Lo	Diesel	Average	1	8	84	0.37
Paving	Cement an	Diesel	Average	2	6	10	0.56
Paving	Pavers	Diesel	Average	1	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	6	89	0.36
Paving	Rollers	Diesel	Average	2	6	36	0.38
Architectur	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way Tri	Miles per Trip	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Co	Worker	15.5	14.3	LDA,LDT1,LDT2
Building Co	Vendor	7.21	8.8	HHDT,MHDT
Building Co	Hauling	0	20	HHDT
Building Co	Onsite truck			HHDT
Paving				
Paving	Worker	20	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectur	Worker	3.1	14.3	LDA,LDT1,LDT2
Architectur	Vendor		8.8	HHDT,MHDT
Architectur	Hauling	0	20	HHDT
Architectur	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redu	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential E	Non-Resident	Non-Resid	Parking Area Coated (sq ft)
Architectur	0	0	66000	22000	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material Im	Material Exp	Acres Graded	Material D	Acres Paved (acres)
Site Preparation			16.5	0	
Grading			18	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str	Frequency	PM10 Reduc	PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
Hospital	0	0
Fast Food F	0	0
Health Clul	0	0
Hotel	0	0
General Of	0	0
Recreation	0	0
Day-Care C	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
General Of	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
General Of	0	0
Medical Of	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Yr	CO2	CH4	N2O
2033	0	178	0.01	< 0.005
2034	0	163	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Ha	Result for Project Census Tract
Temperatu	19.8 annual days of extreme heat
Extreme Pr	5 annual days with precipitation above 20 mm
Sea Level R	0 meters of inundation depth
Wildfire	0 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 m

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 m

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

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

6.2. Initial Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Cap	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A		N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A		N/A
Air Quality	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Cap	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A		N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A		N/A
Air Quality	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	45.1
AQ-PM	37.5
AQ-DPM	24.8
Drinking W	69.9
Lead Risk H	5.61
Pesticides	76.5
Toxic Relea	13.1
Traffic	58.7
Effect Indicators	
CleanUp Si	61.8
Groundwat	82.1
Haz Waste	67.6
Impaired W	94.6
Solid Wast	64.4
Sensitive Population	
Asthma	24.7
Cardio-vas	32
Low Birth V	77.8
Socioeconomic Factor Indicators	
Education	41.6
Housing	42.8
Linguistic	26.4
Poverty	13
Unemployr	7.77

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 Pov	60.34903
Employed	0.526113
Median HI	67.31682
Education	
Bachelor's	51.50776
High schoo	19.24804
Preschool e	95.7141
Transportation	
Auto Acces	43.3081
Active com	34.86462
Social	
2-parent ho	66.67522
Voting	91.95432
Neighborhood	
Alcohol avi	90.56846
Park access	6.351854
Retail dens	9.162069
Supermark	36.13499
Tree canop	25.22777
Housing	
Homeowne	70.21686
Housing ha	88.97729
Low-inc ho	91.58219
Low-inc ren	88.61799
Uncrowdec	66.91903
Health Outcomes	
Insured ad	87.8609
Arthritis	1.2
Asthma ER	54
High Blood	2.1
Cancer (exc	2.7
Asthma	28
Coronary H	1.9
Chronic Ob	3.4
Diagnosed	9.5
Life Expect	46
Cognitively	16
Physically	31
Heart Attac	39
Mental Hea	52
Chronic Kid	2.1
Obesity	52
Pedestrian	71
Physical He	28
Stroke	4.4
Health Risk Behaviors	
Binge Drink	98
Current Sm	42
No Leisure	36
Climate Change Exposures	
Wildfire Ris	0
SLR Inunda	0
Children	60
Elderly	20
English Spe	78
Foreign-bo	43
Outdoor W	43
Climate Change Adaptive Capacity	
Impervious	95
Traffic Den	45
Traffic Acce	23
Other Indices	
Hardship	53
Other Decision Support	
2016 Votin	77

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroSc	46

Healthy Pla 46
Project Loc No
Project Loc No
Project Loc No
a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures
Measure T Co-Benefits Achieved

7.5. Evaluation Scorecard
Category Number of Total Points Max Possible Weighted Score

7.6. Health & Equity Custom Measures
Measure T Sponsor

8. User Changes to Default Data
Screen Justification
Land Use Project description
Constructio 6 days a week, schedule timing from PD
Operations got rid of NaN

1. Basic Project Information
1.1. Basic Project Information

Data Field	Value
Project Nam	EGZ Phase 3
Constructio	1/1/2035
Lead Agency	
Land Use Sc	Project/site
Analysis Lev	County
Windspeed	3
Precipitatio	36.6
Location	38.38078867918957 6, -121.38934529264463
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Util	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Su	Size	Unit	Lot Acreage	Building Are	Landscape A	Special Lan	Population	Description
General Off	10.6	1000sqft	0.24	10600	10600			

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary
2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	0.49	0.41	3.52	6.93	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1373	1373	0.06	0.02	0.12	1380
Daily, Winter (Max)																		
Unmit.	1.43	1.2	9.31	15.3	0.03	0.33	5.43	5.76	0.3	2.6	2.9		3148	3148	0.13	0.03	< 0.005	3160
Average Daily (Max)																		
Unmit.	0.44	0.47	3.13	5.99	0.01	0.09	0.47	0.56	0.08	0.21	0.29		1187	1187	0.05	0.01	0.03	1192
Annual (Max)																		
Unmit.	0.08	0.09	0.57	1.09	< 0.005	0.02	0.09	0.1	0.01	0.04	0.05		196	196	0.01	< 0.005	< 0.005	197

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2035	0.48	0.4	3.47	6.93	0.01	0.09	0.05	0.13	0.08	0.01	0.09		1373	1373	0.06	0.02	0.08	1380
2036	0.46	0.39	3.34	6.87	0.01	0.08	0.05	0.13	0.07	0.01	0.08		1372	1372	0.06	0.02	0.06	1378
2037	0.45	0.38	3.26	6.81	0.01	0.07	0.05	0.12	0.07	0.01	0.08		1370	1370	0.05	0.02	0.05	1376
2038	0.45	0.38	3.2	6.79	0.01	0.07	0.05	0.12	0.06	0.01	0.08		1369	1369	0.05	0.02	0.04	1375
2039	0.49	0.41	3.52	6.75	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1368	1368	0.05	0.02	0.12	1374
Daily - Winter (Max)																		
2035	1.43	1.2	9.31	15.3	0.03	0.33	5.43	5.76	0.3	2.6	2.9		3148	3148	0.13	0.03	< 0.005	3160
2036	0.46	0.39	3.34	6.84	0.01	0.08	0.05	0.13	0.07	0.01	0.08		1368	1368	0.06	0.02	< 0.005	1374
2037	0.45	0.38	3.26	6.78	0.01	0.07	0.05	0.12	0.07	0.01	0.08		1367	1367	0.05	0.02	< 0.005	1373
2038	0.45	0.38	3.21	6.76	0.01	0.07	0.05	0.12	0.06	0.01	0.08		1365	1365	0.05	0.02	< 0.005	1371
2039	0.49	1.16	3.52	6.72	0.01	0.09	0.18	0.26	0.08	0.04	0.12		1364	1364	0.05	0.02	< 0.005	1370
Average Daily																		
2035	0.44	0.37	3.13	5.99	0.01	0.09	0.47	0.56	0.08	0.21	0.29		1187	1187	0.05	0.01	0.03	1192
2036	0.4	0.33	2.87	5.88	0.01	0.07	0.04	0.11	0.06	0.01	0.07		1176	1176	0.05	0.01	0.02	1182
2037	0.39	0.33	2.8	5.81	0.01	0.06	0.04	0.1	0.06	0.01	0.07		1172	1172	0.05	0.01	0.02	1177
2038	0.39	0.32	2.75	5.8	0.01	0.06	0.04	0.1	0.06	0.01	0.06		1171	1171	0.05	0.01	0.02	1176
2039	0.33	0.47	2.31	4.5	0.01	0.05	0.06	0.11	0.05	0.01	0.06		864	864	0.03	0.01	0.02	867
Annual																		
2035	0.08	0.07	0.57	1.09	< 0.005	0.02	0.09	0.1	0.01	0.04	0.05		196	196	0.01	0.005	0.005	197
2036	0.07	0.06	0.52	1.07	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		195	195	0.01	0.005	0.005	196
2037	0.07	0.06	0.51	1.06	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		194	194	0.01	0.005	0.005	195
2038	0.07	0.06	0.5	1.06	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		194	194	0.01	0.005	0.005	195
2039	0.06	0.09	0.42	0.82	< 0.005	0.01	0.01	0.02	0.01	< 0.005	0.01		143	143	0.01	0.005	0.005	144

3. Construction Emissions Details
3.1. Demolition (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.42	0.35	3.27	5.3	0.01	0.06		0.06	0.05		0.05		851	851	0.03	0.01		854
Demolition							0	0		0	0							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.01	0.01	0.06	0.1	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		16.3	16.3	< 0.005	< 0.005		16.4
Demolition							0	0		0	0							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.7	2.7	< 0.005	< 0.005		2.71
Demolition							0	0		0	0							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.02	0.02	0.02	0.25	0	0	0.1	0.1	0	0.02	0.02		85.6	85.6	< 0.005	< 0.005	< 0.005	85.8
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.68	1.68	< 0.005	< 0.005	< 0.005	1.69
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Site Preparation (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.38	0.32	2.37	5.55	0.01	0.09		0.09	0.09		0.09		858	858	0.03	0.01		861
Dust From Material Movement							0.53	0.53		0.06	0.06							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.01	0.01	0.09	0.21	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		32.9	32.9	< 0.005	< 0.005		33
Dust From Material Movement							0.02	0.02		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		5.45	5.45	< 0.005	< 0.005		5.47
Dust From Material Movement							< 0.005	< 0.005		< 0.005	< 0.005							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.13	0	0	0.05	0.05	0	0.01	0.01		42.8	42.8	< 0.005	< 0.005	< 0.005	42.9
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.68	1.68	< 0.005	< 0.005	< 0.005	1.69
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.28	0.28	< 0.005	< 0.005	< 0.005	0.28
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.5. Grading (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road Eq	0.93	0.78	5.83	8.21	0.02	0.24		0.24	0.22		0.22		1714	1714	0.07	0.01		1720
Dust From Material Movement							5.31	5.31		2.57	2.57							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.07	0.06	0.45	0.63	< 0.005	0.02		0.02	0.02		0.02		131	131	0.01	< 0.005		132
Dust From Material Movement							0.41	0.41		0.2	0.2							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road Eq	0.01	0.01	0.08	0.11	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		21.8	21.8	< 0.005	< 0.005		21.8
Dust From Material Movement							0.07	0.07		0.04	0.04							
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.02	0.02	0.01	0.19	0	0	0.08	0.08	0	0.02	0.02		64.2	64.2	< 0.005	< 0.005	< 0.005	64.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		5.05	5.05	< 0.005	< 0.005	< 0.005	5.07
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		0.84	0.84	< 0.005	< 0.005	< 0.005	0.84
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2035) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road Eq	0.46	0.39	3.41	6.78	0.01	0.09		0.09	0.08		0.08		1304	1304	0.05	0.01		1309
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road Eq	0.46	0.39	3.41	6.78	0.01	0.09		0.09	0.08		0.08		1304	1304	0.05	0.01		1309
Onsite truck	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road Eq	0.34	0.28	2.48	4.94	0.01	0.06		0.06	0.06		0.06		949	949	0.04	0.01		953

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2035 max	1.43	1.2	9.31	15.3	0.03	0.33	5.43	5.76	0.3	2.6	2.9	0	196	196	0.01	0.005	0.005	197
2036 max	0.46	0.39	3.34	6.87	0.01	0.08	0.05	0.13	0.07	0.01	0.08	0	195	195	0.01	0.005	0.005	196
2037 max	0.45	0.38	3.26	6.81	0.01	0.07	0.05	0.12	0.07	0.01	0.08	0	194	194	0.01	0.005	0.005	195
2038 max	0.45	0.38	3.21	6.79	0.01	0.07	0.05	0.12	0.06	0.01	0.08	0	194	194	0.01	0.005	0.005	195
2039 max	0.49	1.16	3.52	6.75	0.01	0.09	0.18	0.26	0.08	0.04	0.12	0	143	143	0.01	0.005	0.005	144

	Gasoline	Diesel
2035	5	192.58
2036	4.21	191.24
2037	4.15	191.07
2038	4.12	190.91
2039	7.11	136.67

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Nar	EGZ Phase 4
Constructic	1/1/2040
Lead Agency	
Land Use S	Project/site
Analysis Le	County
Windspeed	3
Precipitatic	36.6
Location	38.38053334655811, -121.39012373594[5]
County	Sacramento
City	Elk Grove
Air District	Sacramento Metropolitan AQMD
Air Basin	Sacramento Valley
TAZ	712
EDFZ	13
Electric Uti	Sacramento Municipal Utility District
Gas Utility	Pacific Gas & Electric
App Versio	2022.1.1.14

1.2. Land Use Types

Land Use S	Size	Unit	Lot Acreage	Building Ar	Landscape	Special Lan	Population	Description
General Of	22.5	1000sqft	0.52	22500				Wallace Line Building
Fast Food F	0.5	1000sqft	0.01	500				Food Kiosk
Health Clul	1	1000sqft	0.02	1000				restrooms
Racquet Cl	7.6	1000sqft	0.17	7600				greenhouse 1 and 2
Automobil	8.5	1000sqft	0.2	8500				maintenance shed/shops
City Park	3.8	Acre	3.8	0				event storage
City Park	0.07	Acre	0.07	0	3000	3000		Australian Aviaries
City Park	0.25	Acre	0.25	0	11000	11000		Australia/Wallaby Aviary
City Park	0.1	Acre	0.1	0	4500	4500		cassowary
General Of	3	1000sqft	0.07	3000				kimono dragon
General Of	8.3	1000sqft	0.19	8300				interior exhibits
City Park	0.13	Acre	0.13	0	5500	5500		Asian Aviaries
City Park	0	Acre	0	0	200	200		blood python
City Park	0.16	Acre	0.16	0	7000	7000		clouded leopard
City Park	0.87	Acre	0.87	0	38000	38000		Tiger
City Park	0.07	Acre	0.07	0	3000	3000		Red Panda
City Park	0.76	Acre	0.76	0	33000	33000		Asian Apes
Medical Of	18	1000sqft	0.41	18000				Animal Care Quarters

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Unmit.	1.38	1.16	8.58	14.9	0.03	0.28	7.23	7.51	0.26	3.46	3.72		3097	3097	0.12	0.05	0.2	3108
Daily, Winter (Max)																		
Unmit.	2.61	7.76	16	20.2	0.05	0.58	19.8	20.4	0.53	10.1	10.7		5439	5439	0.22	0.05	0.01	5458
Average Daily (Max)																		
Unmit.	1.07	1.85	7.04	12.1	0.02	0.18	3.12	3.3	0.17	1.5	1.67		2676	2676	0.1	0.04	0.06	2691
Annual (Max)																		
Unmit.	0.2	0.34	1.28	2.21	< 0.005	0.03	0.57	0.6	0.03	0.27	0.31		443	443	0.02	0.01	0.01	446

2.2. Construction Emissions by Year, Unmitigated

Year	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily - Summer (Max)																		
2040	1.38	1.16	8.58	14.9	0.03	0.28	7.23	7.51	0.26	3.46	3.72		3097	3097	0.12	0.05	0.2	3108
2041	1.01	0.84	6.91	13.2	0.03	0.14	0.32	0.46	0.13	0.08	0.21		2810	2810	0.11	0.05	0.16	2828
2042	1.01	0.84	6.86	13.1	0.03	0.14	0.32	0.45	0.13	0.08	0.2		2804	2804	0.11	0.05	0.13	2823
Daily - Winter (Max)																		
2040	2.61	2.2	16	20.2	0.05	0.58	19.8	20.4	0.53	10.1	10.7		5439	5439	0.22	0.05	0.01	5458
2041	1.01	0.84	6.94	13	0.03	0.14	0.32	0.46	0.13	0.08	0.21		2786	2786	0.11	0.05	< 0.005	2804
2042	1	7.76	6.89	12.9	0.03	0.14	0.32	0.45	0.13	0.08	0.2		2781	2781	0.11	0.05	< 0.005	2799
Average Daily																		
2040	1.07	0.89	7.04	12.1	0.02	0.18	3.12	3.3	0.17	1.5	1.67		2676	2676	0.1	0.04	0.06	2691
2041	0.87	0.72	5.94	11.1	0.02	0.12	0.27	0.39	0.11	0.07	0.18		2392	2392	0.09	0.04	0.06	2408
2042	0.64	1.85	4.54	8.57	0.02	0.09	0.19	0.28	0.08	0.05	0.13		1740	1740	0.07	0.03	0.04	1751
Annual																		
2040	0.2	0.16	1.28	2.21	< 0.005	0.03	0.57	0.6	0.03	0.27	0.31		443	443	0.02	0.01	0.01	446
2041	0.16	0.13	1.08	2.03	< 0.005	0.02	0.05	0.07	0.02	0.01	0.03		396	396	0.02	0.01	0.01	399
2042	0.12	0.34	0.83	1.56	< 0.005	0.02	0.04	0.05	0.01	0.01	0.02		288	288	0.01	0.005	0.01	290

3. Construction Emissions Details

3.1. Site Preparation (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	2.58	2.17	15.9	19.8	0.05	0.58		0.58	0.53		0.53		5296	5296	0.21	0.04		5314
Dust From Material Movement							19.7	19.7		10.1	10.1							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.22	0.18	1.35	1.69	< 0.005	0.05		0.05	0.05		0.05		450	450	0.02	< 0.005		451
Dust From Material Movement							1.67	1.67		0.86	0.86							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.04	0.03	0.25	0.31	< 0.005	0.01		0.01	0.01		0.01		74.5	74.5	< 0.005	< 0.005		74.7
Dust From Material Movement							0.3	0.3		0.16	0.16							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.04	0.03	0.03	0.38	0	0	0.18	0.18	0	0.04	0.04		143	143	< 0.005	< 0.005	< 0.005	144
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.03	0	0	0.01	0.01	0	< 0.005	< 0.005		12.5	12.5	< 0.005	< 0.005	< 0.005	12.5
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		2.07	2.07	< 0.005	< 0.005	< 0.005	2.08
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.3. Grading (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	1.35	1.13	8.57	14.4	0.03	0.28		0.28	0.26		0.26		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	1.35	1.13	8.57	14.4	0.03	0.28		0.28	0.26		0.26		2959	2959	0.12	0.02		2969
Dust From Material Movement							7.08	7.08		3.42	3.42							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.23	0.2	1.48	2.49	< 0.005	0.05		0.05	0.04		0.04		511	511	0.02	< 0.005		512
Dust From Material Movement							1.22	1.22		0.59	0.59							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.04	0.04	0.27	0.45	< 0.005	0.01		0.01	0.01		0.01		84.6	84.6	< 0.005	< 0.005		84.8
Dust From Material Movement							0.22	0.22		0.11	0.11							
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.03	0.02	0.45	0	0	0.15	0.15	0	0.04	0.04		138	138	< 0.005	< 0.005	0.09	139
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.03	0.02	0.32	0	0	0.15	0.15	0	0.04	0.04		123	123	< 0.005	< 0.005	< 0.005	123
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.03	0.03	0	0.01	0.01		21.8	21.8	< 0.005	< 0.005	0.01	21.8
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.6	3.6	< 0.005	< 0.005	< 0.005	3.62
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
2040 max	2.61	2.2	16	20.2	0.05	0.58	19.8	20.4	0.53	10.1	10.7	0	443	443	0.02	0.01	0.01	446
2041 max	1.01	0.84	6.94	13.2	0.03	0.14	0.32	0.46	0.13	0.08	0.21	0	396	396	0.02	0.01	0.01	399
2042 max	1.01	7.76	6.89	13.1	0.03	0.14	0.32	0.45	0.13	0.08	0.2	0	288	288	0.01	0.005	0.01	290

	Gas	Diesel
2040	25.1	420
2041	27.5	370.8
2042	21.02	269.03

3.5. Building Construction (2040) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.96	0.8	6.71	12.4	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.96	0.8	6.71	12.4	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.57	0.48	4.03	7.45	0.01	0.09		0.09	0.08		0.08		1441	1441	0.06	0.01		1446
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.1	0.09	0.74	1.36	< 0.005	0.02		0.02	0.01		0.01		239	239	0.01	< 0.005		239
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.7	0	0	0.23	0.23	0	0.05	0.05		213	213	< 0.005	< 0.005	0.14	214
Vendor	0.01	0.01	0.25	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		205	205	0.01	0.03	0.07	216
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.5	0	0	0.23	0.23	0	0.05	0.05		189	189	< 0.005	< 0.005	< 0.005	190
Vendor	0.01	0.01	0.27	0.14	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		206	206	0.01	0.03	< 0.005	216
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.03	0.02	0.01	0.31	0	0	0.14	0.14	0	0.03	0.03		117	117	< 0.005	< 0.005	0.04	117
Vendor	0.01	< 0.005	0.16	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02		124	124	< 0.005	0.02	0.02	130
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	< 0.005	< 0.005	0.06	0	0	0.03	0.03	0	0.01	0.01		19.4	19.4	< 0.005	< 0.005	0.01	19.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		20.5	20.5	< 0.005	< 0.005	< 0.005	21.5
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.7. Building Construction (2041) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.95	0.8	6.65	12.3	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.95	0.8	6.65	12.3	0.02	0.14		0.14	0.13		0.13		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.81	0.68	5.7	10.6	0.02	0.12		0.12	0.11		0.11		2054	2054	0.08	0.02		2061
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.15	0.12	1.04	1.93	< 0.005	0.02		0.02	0.02		0.02		340	340	0.01	< 0.005		341
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.69	0	0	0.23	0.23	0	0.05	0.05		212	212	< 0.005	< 0.005	0.11	213
Vendor	0.01	0.01	0.24	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		201	201	0.01	0.03	0.05	210
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.05	0.04	0.03	0.49	0	0	0.23	0.23	0	0.05	0.05		188	188	< 0.005	< 0.005	< 0.005	189
Vendor	0.01	0.01	0.26	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		201	201	0.01	0.03	< 0.005	210
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.04	0.03	0.02	0.43	0	0	0.2	0.2	0	0.05	0.05		166	166	< 0.005	< 0.005	0.04	166
Vendor	0.01	0.01	0.22	0.11	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02		172	172	0.01	0.03	0.02	180
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	0.01	0.01	< 0.005	0.08	0	0	0.04	0.04	0	0.01	0.01		27.4	27.4	< 0.005	< 0.005	0.01	27.5
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		28.5	28.5	< 0.005	< 0.005	< 0.005	29.8
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.9. Building Construction (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.95	0.79	6.6	12.3	0.02	0.13		0.13	0.12		0.12		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.95	0.79	6.6	12.3	0.02	0.13		0.13	0.12		0.12		2397	2397	0.1	0.02		2405
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.49	0.41	3.4	6.34	0.01	0.07		0.07	0.06		0.06		1233	1233	0.05	0.01		1237
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.09	0.07	0.62	1.16	< 0.005	0.01		0.01	0.01		0.01		204	204	0.01	< 0.005		205
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.05	0.04	0.02	0.67	0	0	0.23	0.23	0	0.05	0.05		211	211	< 0.005	< 0.005	0.09	211
Vendor	0.01	0.01	0.23	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		197	197	0.01	0.03	0.04	206
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.04	0.04	0.03	0.47	0	0	0.23	0.23	0	0.05	0.05		187	187	< 0.005	< 0.005	< 0.005	188
Vendor	0.01	0.01	0.25	0.13	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03		197	197	0.01	0.03	< 0.005	206
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	0.02	0.02	0.01	0.25	0	0	0.12	0.12	0	0.03	0.03		98.9	98.9	< 0.005	< 0.005	0.02	99.2
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01		101	101	< 0.005	0.02	0.01	106
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.02	0.02	0	0.01	0.01		16.4	16.4	< 0.005	< 0.005	< 0.005	16.4
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		16.8	16.8	< 0.005	< 0.005	< 0.005	17.6
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.11. Paving (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Off-Road E	0.56	0.47	5.16	9.73	0.01	0.1		0.1	0.09		0.09		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Off-Road E	0.56	0.47	5.16	9.73	0.01	0.1		0.1	0.09		0.09		1511	1511	0.06	0.01		1516
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.1	0.08	0.88	1.65	< 0.005	0.02		0.02	0.02		0.02		257	257	0.01	< 0.005		257
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	0.02	0.01	0.16	0.3	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		42.5	42.5	< 0.005	< 0.005		42.6
Paving		0																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Worker	0.03	0.02	0.02	0.43	0	0	0.15	0.15	0	0.04	0.04		137	137	< 0.005	< 0.005	0.06	137
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Daily, Winter (Max)																		
Worker	0.03	0.02	0.02	0.31	0	0	0.15	0.15	0	0.04	0.04		122	122	< 0.005	< 0.005	< 0.005	122
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.05	0	0	0.03	0.03	0	0.01	0.01		21.2	21.2	< 0.005	< 0.005	< 0.005	21.3
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	0.01	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		3.51	3.51	< 0.005	< 0.005	< 0.005	3.52
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

3.13. Architectural Coating (2042) - Unmitigated

Location	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Onsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Off-Road E	0.11	0.09	0.74	1.09	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		134	134	0.01	< 0.005		134
Architectural Coatings		7.66																

Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Off-Road E	0.02	0.02	0.13	0.19	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		23	23	< 0.005	< 0.005		23.1
Architectural Coatings		1.32																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Off-Road E	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		3.82	3.82	< 0.005	< 0.005		3.83
Architectural Coatings		0.24																
Onsite truc	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Offsite																		
Daily, Summer (Max)																		
Daily, Winter (Max)																		
Worker	0.01	0.01	0.01	0.09	0	0	0.05	0.05	0	0.01	0.01		37.5	37.5	< 0.005	< 0.005	< 0.005	37.6
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Average Daily																		
Worker	< 0.005	< 0.005	< 0.005	0.02	0	0	0.01	0.01	0	< 0.005	< 0.005		6.64	6.64	< 0.005	< 0.005	< 0.005	6.66
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Annual																		
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0	0	< 0.005	< 0.005	0	< 0.005	< 0.005		1.1	1.1	< 0.005	< 0.005	< 0.005	1.1
Vendor	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0
Hauling	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Vegetation	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

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

Land Use	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Total																		
Daily, Winter (Max)																		
Total																		
Annual																		
Total																		

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	CO	SO_2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO_2	$NBCO_2$	CO_2T	CH_4	N_2O	R	CO_2e
Daily, Summer (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Daily, Winter (Max)																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		
Annual																		
Avoided																		
Subtotal																		
Sequestered																		
Subtotal																		
Removed																		
Subtotal																		

5. Activity Data

5.1. Construction Schedule

Phase Nam	Phase Type	Start Date	End Date	Days Per W	Work Days	Phase Description
Site Prepar	Site Prepar	1/1/2040	2/6/2040	6	31	
Grading	Grading	2/7/2040	4/19/2040	6	63	
Building Cc	Building Cc	4/20/2040	8/7/2042	6	720	
Paving	Paving	8/8/2042	10/18/2042	6	62	
Architectui	Architectui	10/19/2042	12/31/2042	6	63	

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Nam	Equipment	Fuel Type	Engine Tier	Number pe	Hours Per I	Horsepow	Load Factor
Site Prepar	Rubber Tiri	Diesel	Average	3	8	367	0.4
Site Prepar	Tractors/Lc	Diesel	Average	4	8	84	0.37
Grading	Graders	Diesel	Average	1	8	148	0.41
Grading	Excavators	Diesel	Average	1	8	36	0.38
Grading	Tractors/Lc	Diesel	Average	3	8	84	0.37
Grading	Rubber Tiri	Diesel	Average	1	8	367	0.4
Building Cc	Forklifts	Diesel	Average	3	8	82	0.2
Building Cc	Generator	Diesel	Average	1	8	14	0.74
Building Cc	Cranes	Diesel	Average	1	7	367	0.29
Building Cc	Welders	Diesel	Average	1	8	46	0.45
Building Cc	Tractors/Lc	Diesel	Average	3	7	84	0.37
Paving	Pavers	Diesel	Average	2	8	81	0.42
Paving	Paving Equ	Diesel	Average	2	8	89	0.36
Paving	Rollers	Diesel	Average	2	8	36	0.38
Architectui	Air Compre	Diesel	Average	1	6	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Nam	Trip Type	One-Way Tri	Miles per Tri	Vehicle Mix
Site Preparation				
Site Prepar	Worker	17.5	14.3	LDA,LDT1,LDT2
Site Prepar	Vendor		8.8	HHDT,MHDT
Site Prepar	Hauling	0	20	HHDT
Site Prepar	Onsite truck			HHDT
Grading				
Grading	Worker	15	14.3	LDA,LDT1,LDT2
Grading	Vendor		8.8	HHDT,MHDT
Grading	Hauling	0	20	HHDT
Grading	Onsite truck			HHDT
Building Construction				
Building Cc	Worker	23.1	14.3	LDA,LDT1,LDT2
Building Cc	Vendor	11.4	8.8	HHDT,MHDT
Building Cc	Hauling	0	20	HHDT
Building Cc	Onsite truck			HHDT
Paving				
Paving	Worker	15	14.3	LDA,LDT1,LDT2
Paving	Vendor		8.8	HHDT,MHDT
Paving	Hauling	0	20	HHDT
Paving	Onsite truck			HHDT
Architectural Coating				
Architectui	Worker	4.62	14.3	LDA,LDT1,LDT2
Architectui	Vendor		8.8	HHDT,MHDT
Architectui	Hauling	0	20	HHDT
Architectui	Onsite truck			HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Str	PM10 Redi	PM2.5 Reduction

5.5. Architectural Coatings

Phase Nam	Residential	Residential E	Non-Residen	Non-Resid	Parking Area Coated (sq ft)
Architectui	0	0	104100	34700	

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Nam	Material In	Material Exp	Acres Grade	Material D	Acres Paved (acres)
Site Preparation			46.5	0	
Grading			63	0	
Paving	0	0	0	0	0

5.6.2. Construction Earthmoving Control Strategies

Control Str Frequency PM10 Reduc PM2.5 Reduction

5.7. Construction Paving

Land Use	Area Paved	% Asphalt
General Of	0	0
Fast Food F	0	0
Health Clul	0	0
Racquet Cl	0	0
Automobile	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
General Of	0	0
General Of	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
City Park	0	0
Medical Of	0	0

5.8. Construction Electricity Consumption and Emissions Factors

Year	kWh per Yr	CO2	CH4	N2O
2040	0	375	0.01	< 0.005
2041	0	375	0.01	< 0.005
2042	0	375	0.01	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation	Vegetation	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cc	Initial Acre	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Ha	Result for FUnit
Temperatu	19.8 annual days of extreme heat
Extreme Pr	5 annual days with precipitation above 20 mm
Sea Level R	0 meters of inundation depth
Wildfire	0 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 m

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 m

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 (MIROCS). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164

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 (MIROCS). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.

6.2. Initial Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Cap	Vulnerability Score
Temperatu	1	0	0	N/A
Extreme Pr	2	0	0	N/A
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	0	0	0	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Ha	Exposure S	Sensitivity Sc	Adaptive Cap	Vulnerability Score
Temperatu	1	1	1	2
Extreme Pr	2	1	1	3
Sea Level R	N/A	N/A	N/A	N/A
Wildfire	1	1	1	2
Flooding	1	1	1	2
Drought	1	1	1	2
Snowpack	N/A	N/A	N/A	N/A
Air Quality	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	
AQ-PM	
AQ-DPM	
Drinking Water	
Lead Risk Housing	
Pesticides	
Toxic Releases	
Traffic	
Effect Indicators	
CleanUp Sites	
Groundwater	
Haz Waste Facilities/Generators	
Impaired Water Bodies	
Solid Waste	
Sensitive Population	
Asthma	
Cardio-vascular	
Low Birth Weights	
Socioeconomic Factor Indicators	
Education	
Housing	
Linguistic	
Poverty	
Unemployment	

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	
Employed	
Median HI	
Education	
Bachelor's or higher	
High school enrollment	
Preschool enrollment	
Transportation	
Auto Access	
Active commuting	
Social	
2-parent households	
Voting	
Neighborhood	
Alcohol availability	
Park access	
Retail density	
Supermarket access	
Tree canopy	
Housing	
Homeownership	
Housing habitability	
Low-inc homeowner severe housing cost burden	
Low-inc renter severe housing cost burden	
Uncrowded housing	
Health Outcomes	

Insured adults
Arthritis
Asthma ER Admissions
High Blood Pressure
Cancer (excluding skin)
Asthma
Coronary Heart Disease
Chronic Obstructive Pulmonary Disease
Diagnosed Diabetes
Life Expectancy at Birth
Cognitively Disabled
Physically Disabled
Heart Attack ER Admissions
Mental Health Not Good
Chronic Kidney Disease
Obesity
Pedestrian Injuries
Physical Health Not Good
Stroke
Health Risk Behaviors
Binge Drinking
Current Smoker
No Leisure Time for Physical Activity
Climate Change Exposures
Wildfire Risk
SLR Inundation Area
Children
Elderly
English Speaking
Foreign-born
Outdoor Workers
Climate Change Adaptive Capacity
Impervious Surface Cover
Traffic Density
Traffic Access
Other Indices
Hardship
Other Decision Support
2016 Voting

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	
Healthy Places Index Score for Project Location (b)	
Project Loc No	
Project Loc No	
Project Loc No	

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

7.4. Health & Equity Measures

Measure T Co-Benefits Achieved

7.5. Evaluation Scorecard

Category	Number of Total Points IMax Possible Weighted Score

7.6. Health & Equity Custom Measures

Measure T Sponsor

8. User Changes to Default Data

Screen	Justification
Constructi	6 days a week

Year	Gasoline (workers)	Diesel (offroad eq, hauling, vendors)	Phases	
2025	24.84	951	1A, 1B	
2026	54.4	802	1A, 1B	
2027	53.45	797	1A, 1B	
2028	14.58	413	1A, 1B	
2029	13.22	393	1C	
2030	10.9	356	1C	
2031	10.7	355	1C	
2032	12.4	227	1C	
2033	19.1	382		2
2034	17.61	297		2
2035	5	193		3
2036	4.21	191		3
2037	4.15	191		3
2038	4.12	191		3
2039	7.11	137		3
2040	25.1	420		4
2041	27.5	371		4
2042	21.02	269		4
Total	329.41	6937		

VMT CALCS

Source: Kimley Horn Elk Grove Zoo Traffic Study

Existing Daily VMT	14171
Final Buildout VMT	15339
Days per Year	365
Existing Yearly VMT	5172415
Final Buildout Yearly VMT	5598735
Daily Difference	1168
Yearly Difference	426320
Existing Daily Trips	1222
Final Buildout Daily Trips	1223
Existing Annual Trips	446030
Final Buildout Annual Trips	446395
Daily Difference in Trips	**1**
Annual Difference in Trips	365
Existing Average Trip Length	11.59656
Final Buildout Average Trip Length	12.54211
Average Trip Length	**1168**
Net Annual VMT	**426320**
Annual Trips	**1**

WATER CALCS

Phase 1A and 1B

	gpd	AFY	gpy
Potable water demand no LSS recovery	45852	51	16735980
Potable water demand LSS recovery	45852	51	16735980
Reclained water	91040	102	33229600
Total (AFY)		**153**	

Total (AFY)	Estimation gpd	conver	gpy
Potable water demand no LSS recovery	51	45822	16724904
Potable water demand LSS recovery	51	45822	16724904
Reclained water	102	90980	33207608

WSA Demand (AFY)	AFY	GPD	GPY
2030 (Phase 1)	170	151666	55358009
2035	240	214116	78152484
2040	240	214116	78152484
2045 (full build)	240	214116	78152484

Note: 1 gpd = 0.00112088568 AFY (google.com)

EV SPACES INFO

	total	%
EV ready	87	7%
EV Capable	240	20%
Total EV	327	27%
Total Spaces	1200	100%

Tier 2 EV

Charging Spaces		
EV Capable	45%	540
EVSE of EV Cape	33%	178.2
Total Spaces	1200	1200

2021 California Natural Gas Consumption

	million cub	% of total
Total	2092612	100.00%
Lease Fuel	35254	1.68%
Plant Fuel	2,128	0.10%
Pipeline &	21,449	1.02%
Residentia	2,033,781	97.19%
Commercia	449,311	21.47%
Industrial	240,019	11.47%
Vehicle Fue	681,620	32.57%
Electric Po	25,449	1.22%

Retail building = 20kW array, office buildings = 14 kW array, total solar output = 54,174 kWh/year (in mitigation section) applied retail output to free standing discount and office building to general office building

	Size	Daily VMT	Actual Dail	Multiplier	Daily Trips	daily VMT	yearly VMT	VMT/year
General office building	57.5	455954	166.8571	115	1.450932	1694.688	618561.2	53290
Free Standing discount store	18.1	66713	166.8571	36.2	4.609313	5383.678	1965042	53290
day-care center	2.7	31852	166.8571	5.4	30.89947	36090.58	13173062	53290
fast food	19.65	134053	166.8571	39.3	4.245729	4959.011	1810039	53290
city park	5.72	37620	166.8571	11.44	14.58541	17035.76	6218054	53290
hotel	0	0	0	0	0	0	0	0
other asphalt	8.6	21569	166.8571	17.2	9.700997	11330.76	4135729	53290
parking lot	1200	3009600	166.8571	2400	0.069524	81.20381	29639.39	53290
			1168					

	needed ye	daily vmt	Factor	Trip length	daily trips	daily trips per unit
General office building	53290	146	115	1168	0.125	0.001087
Free Standing discount store	53290	146	36.2	1168	0.125	0.003453
day-care center	53290	146	5.4	1168	0.125	0.023148
fast food	53290	146	39.3	1168	0.125	0.003181
city park	53290	146	11.44	1168	0.125	0.010927
hotel	0	0	0	1168	0	#DIV/0!
other asphalt	53290	146	17.2	1168	0.125	0.007267
parking lot	53290	146	2400	1168	0.125	5.21E-05

VMT CALCS

Source: Kimley Horn Elk Grove Zoo Traffic Study

Existing Daily VMT	14171
Final Buildout VMT	44211
Days per Year	365
Existing Yearly VMT	5172415
Final Buildout Yearly VMT	16137015
Daily Difference	30040
Yearly Difference	10964600
Existing Daily Trips	1222
Final Buildout Daily Trips	3513
Existing Annual Trips	446030
Final Buildout Annual Trips	1282245
Daily Difference in Trips	**2291**
Annual Difference in Trips	836215
Existing Average Trip Length	11.59656
Final Buildout Average Trip Length	12.58497
Average Trip Length	**13.11218**
Net Annual VMT	**10964600**
Annual Trips	**2291**

WATER CALCS

Phase 1A and 1B

	gpd	AFY	gpy
Potable water demand no LSS recovery	45852	51	16735980
Potable water demand LSS recovery	45852	51	16735980
Reclained water	91040	102	33229600
Total (AFY)		**153**	

Phase 1C, 2-4

	gpd	AFY	gpy
Potable water demand no LSS recovery	127921	143	46691165
Potable water demand LSS recovery	40167	45	14660955
Reclained water	58193	65	21240445
Total (AFY)		**208**	

Total (AFY)	Estimation	gpd conver	gpy
Potable water demand no LSS recovery	195	173658	63385168
Potable water demand LSS recovery	96	85962	31376156
Reclained water	167	149134	54433996

WSA Demand (AFY)	AFY	GPD	GPY
2030 (Phase 1)	170	151666	55358009
2035	240	214116	78152484
2040	240	214116	78152484
2045 (full build)	240	214116	78152484

Note: 1 gpd = 0.00112088568 AFY (google.com)

EV SPACES INFO

	total	%
EV ready	87	7%
EV Capable	240	20%
Total EV	327	27%
Total Spaces	1200	100%

Tier 2 EV Charging Spaces		
EV Capable	45%	540
EVSE of EV Cape	33%	178.2
Total Spaces	1200	1200

2021 California Natural Gas Consumption

	million cub	% of total
Total	2092612	100.00%
Lease Fuel	35254	1.68%
Plant Fuel	2,128	0.10%
Pipeline &	21,449	1.02%
Residential	2,033,781	97.19%
Commercia	449,311	21.47%
Industrial	240,019	11.47%
Vehicle Fue	681,620	32.57%
Electric Po	25,449	1.22%

	Size	Daily VMT	Actual Daily	Multiplier	Daily Trips	daily VMT	yearly VMT	VMT/year
General office building	181.8	455954	3755	363.6	10.32728	135.4132	49425.81	1370575
Free Standing discount store	26.6	66713	3755	53.2	70.58271	925.493	337805	1370575
day-care center	12.7	31852	3755	25.4	147.8346	1938.434	707528.5	1370575
fast food	53.45	134053	3755	106.9	35.12629	460.5821	168112.5	1370575
city park	15	37620	3755	30	125.1667	1641.208	599040.8	1370575
hotel	10	25080	3755	20	187.75	2461.811	898561.2	1370575
other asphalt	8.6	21569	3755	17.2	218.314	2862.571	1044839	1370575
parking lot	1200	3009600	3755	2400	1.564583	20.5151	7488.01	1370575
			30040					

	needed yea	daily vmt	Factor	Trip length	daily trips	daily trips per unit
General office building	1370575	3755	363.6	13.11217809	286.375	0.78761
Free Standing discount store	1370575	3755	53.2	13.11217809	286.375	5.382989
day-care center	1370575	3755	25.4	13.11217809	286.375	11.27461
fast food	1370575	3755	106.9	13.11217809	286.375	2.678906
city park	1370575	3755	30	13.11217809	286.375	9.545833
hotel	1370575	3755	20	13.11217809	286.375	14.31875
other asphalt	1370575	3755	17.2	13.11217809	286.375	16.64971
parking lot	1370575	3755	2400	13.11217809	286.375	0.119323

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The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

The energy output range is based on analysis of 30 years of historical weather data, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

31,869 kWh/Year*

System output may range from 31,129 to 32,519 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)
January	2.87	1,442
February	4.28	1,918
March	5.07	2,464
April	6.57	3,040
May	7.09	3,323
June	8.02	3,589
July	8.08	3,690
August	7.85	3,590
September	6.99	3,126
October	5.62	2,677
November	3.74	1,772
December	2.49	1,238
Annual	**5.72**	**31,869**

Location and Station Identification

Requested Location	8655 kammerer
Weather Data Source	Lat, Lng: 38.37, -121.38 0.2 mi
Latitude	38.37° N
Longitude	121.38° W

PV System Specifications

DC System Size	20 kW
Module Type	Standard
Array Type	Fixed (open rack)
System Losses	14.08%
Array Tilt	20°
Array Azimuth	180°
DC to AC Size Ratio	1.2
Inverter Efficiency	96%
Ground Coverage Ratio	0.4
Albedo	*From weather file*
Bifacial	No (0)
Monthly Irradiance Loss	Jan 0% Feb 0% Mar 0% Apr 0% May 0% June 0% July 0% Aug 0% Sept 0% Oct 0% Nov 0% Dec 0%

Performance Metrics	
DC Capacity Factor	18.2%

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The energy output range is based on analysis of 30 years of historical weather data, and is intended to provide an indication of the possible interannual variability in generation for a Fixed (open rack) PV system at this location.

RESULTS

22,309 kWh/Year*

System output may range from 21,792 to 22,764 kWh per year near this location.

Month	Solar Radiation (kWh / m^2 / day)	AC Energy (kWh)
January	2.87	1,009
February	4.28	1,342
March	5.07	1,725
April	6.57	2,128
May	7.09	2,326
June	8.02	2,512
July	8.09	2,583
August	7.85	2,513
September	6.99	2,188
October	5.62	1,874
November	3.74	1,241
December	2.49	866
Annual	**5.72**	**22,307**

Location and Station Identification

Requested Location	8655 kammerer
Weather Data Source	Lat, Lng: 38.37, -121.38 0.2 mi
Latitude	38.37° N
Longitude	121.38° W

PV System Specifications

DC System Size	14 kW
Module Type	Standard
Array Type	Fixed (open rack)
System Losses	14.08%
Array Tilt	20°
Array Azimuth	180°
DC to AC Size Ratio	1.2
Inverter Efficiency	96%
Ground Coverage Ratio	0.4
Albedo	*From weather file*
Bifacial	No (0)
Monthly Irradiance Loss	Jan 0% Feb 0% Mar 0% Apr 0% May 0% June 0% July 0% Aug 0% Sept 0% Oct 0% Nov 0% Dec 0%

Performance Metrics	
DC Capacity Factor	18.2%