

A P P E N D I X B

AIR QUALITY AND GREENHOUSE GAS MODELING DATA

CalEEMod Inputs - Bancroft Parking Structure Replacement Project Construction Asumptions

Name:	Bancroft Parking Structure Replacement Project
Project Number:	UCB-01.5
Project Location:	2356 Bancroft Way, Berkeley, CA 94704
County/Air Basin:	Berkeley
Climate Zone:	5
Land Use Setting:	Urban
Gas Utility Company:	PG&E
Electric Utility Company:	PG&E
Air Basin:	San Francisco Bay Area
Air District:	Bay Area AQMD (BAAQMD)

Project Site Acreage	1.24
Disturbed Site Acreage	1.29

Project Components				
Demolition	Building SQFT	Tons		
Building Demolition ¹	38,400	6,500		
Asphalt Demolition	15,432	229		
Construction	Number of Units	SQFT	Building Footprint	Acres
Parking Garage	640	227,528	29,818	0.68
Hardscaping	-	15,552	15,552	0.36
Landscaping	-	10,798	10,798	0.25
TOTAL	-	253,878	56,168	1.29

Notes: 1. While the existing building includes two stories, each approximately 38,400 square feet, the top floor with the tennis courts contains no walls or roof. Therefore, using 38,400 square feet for the existing building estimates remains representative of anticipated demolition activities.

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Building Square Feet	Landscape Area Square Feet	Special Landscape Area Square Feet
Parking	Enclosed Parking With Elevator	640	Space	0.93	227,528	10,798	0
Parking	Other asphalt surfaces	15.55	1000SQFT	0.36	15,552	0	0
				1.29			

Demolition Haul¹

Construction Activities	Amount to be Demolished (Tons) ¹	Haul Truck Capacity (Tons) ²	Haul Distance (miles) ²	Total Trip Ends	Total Days	Trip Ends/Day
Asphalt Demolition	229	20	20	24	23	2
Building Demolition	6,500	20	20	650	23	28
	6,729					30

Notes
¹ Provided by Applicant.
² CalEEMod Defaults.

Soil Haul

Construction Activities	Volume (CY) ¹	Haul Truck Capacity (CY) ²	Haul Distance (miles) ²	Total Trip Ends	Total Days	Trip Ends/Day
Rough Grading (export)	2,209	16	20	278	23	12
						12

Notes

¹ Provided by Applicant.

² CalEEMod Defaults.

Architectural Coating

Percent Painted

Interior Painted:	86%
Exterior Painted:	13%

BAAQMD Regulation 8, Rule 3

Interior Paint VOC content:	100	grams per liter
Exterior Paint VOC content:	150	grams per liter

Structures	Land Use Square Feet	CalEEMod Factor ²	Total Paintable Surface Area (Parking Area)
Parking			
Parking Garage	227,528	6%	13,652

Notes

¹ CalEEMod methodology calculates the paintable parking areareas by multiplying the total paintable surface area by 6 percent, respectively.

BAAQMD Construction BMPs

Water Exposed Surfaces	Frequency per day:	2	
	PM10:	61	% Reduction
	PM2.5:	61	% Reduction
Limit Vehicle Speeds on Unpaved Roads	Miles per hour speed limit:	25	
	PM10:	44	% Reduction
	PM25:	44	% Reduction
Sweep Paved Roads	PM10:	9	% Reduction
	PM25:	9	% Reduction

Construction Activities and Schedule Assumptions

Default Construction Schedule				
Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Asphalt & Building Demolition	Demolition	11/15/2024	12/13/2024	20
Site Preparation	Site Preparation	12/14/2024	12/28/2024	10
Grading	Grading	12/29/2024	1/26/2025	20
Building Construction	Building Construction	1/27/2025	12/15/2025	230
Paving	Paving	11/18/2025	12/15/2025	20
Architectural Coating	Architectural Coating	11/18/2025	12/15/2025	20

Normalization Calculations				
CalEEMod Defaults Construction Duration		Assumed Construction Duration		
395	days of construction	11/15/2024	2/14/2026	
1.08	years of construction	456	days	
13	months of construction	15	months	
Normalization Factor:				1.15

New CalEEMod Construction Schedule				
Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Asphalt & Building Demolition	Demolition	11/15/2024	12/17/2024	23
Site Preparation	Site Preparation	12/18/2024	1/2/2025	12
Grading	Grading	1/3/2025	2/4/2025	23
Building Construction	Building Construction	2/5/2025	2/11/2026	266
Paving	Paving	1/10/2026	2/11/2026	23
Architectural Coating	Architectural Coating	1/10/2026	2/11/2026	23

Overlapping Construction Schedule			
Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)
Asphalt & Building Demolition	11/15/2024	12/17/2024	23
Site Preparation	12/18/2024	1/2/2025	12
Grading	1/3/2025	2/4/2025	23
Building Construction	2/5/2025	1/9/2026	242
Building Construction, Paving, & Architectural Coating	1/10/2026	2/11/2026	23

CalEEMod Construction Off-Road Equipment Inputs

Water Truck Capacity (gallons) ²
4,000

Based on data provided in Guidance for Application for Dust Control Permit
Maricopa County Air Quality Department. 2005, June. Guidance for Application of Dust Control Permit.
https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf

Based on standard water truck capacity:

McLellan Industries. 2022, January (access). Water Trucks. <https://www.mclellanindustries.com/trucks/water-trucks/>

Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.

Construction Equipment Details						On-Site Water Truck Travel Distance (miles/day)
CalEEMod Equipment	# of Equipment	hr/day	hp	load factor	total trips per day	
Demolition						
Concrete/Industrial Saws	1	8	33	0.73		
Rubber Tired Dozers	1	8	367	0.40		
Tractors/Loaders/Backhoes	3	8	84	0.37		
Worker Trips					13	
Vendor Trips (water trucks - offsite activity)					5	
Hauling Trips					30	
Onsite Trucks (water trucks - onsite activity)		Acres Disturbed:	2.00		1	0.83
Site Preparation						
Rubber Tired Dozers	1	8	367	0.40		
Tractors/Loaders/Backhoes	1	8	84	0.37		
Graders	1	8	148	0.41		
Worker Trips					8	
Vendor Trips (water trucks - offsite activity)					4	
Hauling Trips					4	
Onsite Trucks (water trucks - onsite activity)		Acres Disturbed:	1.50		1	1.24
Grading						
Graders	1	8	148	0.41		
Rubber Tired Dozers	1	8	367	0.40		
Tractors/Loaders/Backhoes	2	7	84	0.37		
Worker Trips					10	
Vendor Trips (water trucks - offsite activity)					5	
Hauling Trips					12	
Onsite Trucks (water trucks - onsite activity)		Acres Disturbed:	1.88		1	0.77
Building Construction						
Cranes	1	6	367	0.29		
Forklifts	1	6	82	0.20		
Generator Sets	1	8	14	0.74		
Tractors / Loaders / Backhoes	1	6	84	0.37		
Welders	1	8	46	0.45		
Worker Trips					96	
Vendor Trips					38	
Hauling Trips					0	
Paving						
Pavers	1	6	81	0.42		
Paving Equipment	1	8	89	0.36		
Rollers	1	7	36	0.38		
Tractors / Loaders / Backhoes	1	8	84	0.37		
Cement and Mortar Mixers	1	6	10	0.56		
Worker Trips					13	
Vendor Trips					0	
Hauling Trips					0	
Architectural Coating						
Air Compressors	1	6	37	0.48		
Worker Trips					20	
Vendor Trips					0	
Hauling Trips					0	

CalEEMod Inputs - Bancroft Parking Structure Replacement Project Operational Assumptions

Name: Bancroft Parking Structure Replacement Project
Project Number: UCB-01.5
Project Location: 2356 Bancroft Way, Berkeley, CA 94704
County/Air Basin: Berkeley
Climate Zone: 5
Land Use Setting: Urban
Gas Utility Company: PG&E
Electric Utility Company: PG&E
Air Basin: San Francisco Bay Area
Air District: Bay Area AQMD (BAAQMD)

Project Site Acreage 1.24
Disturbed Site Acreage 1.29

Existing Conditions	Number of Units	SQFT	Building Footprint	Acres
Parking Garage	130	38,400	38,400	0.88
Tennis Courts	6	38,400	0	0.00
TOTAL	-	76,800	38,400	0.88
Project Components	Number of Units	SQFT	Building Footprint	Acres
Parking Garage	640	227,528	29,818	0.68
Hardscaping	-	15,552	15,552	0.36
Landscaping	-	10,798	10,798	0.25
TOTAL	-	253,878	56,168	1.29

EV Charging Stations

EV Spaces	Number of Spaces	Battery Size (kWh)	Daily Battery Charges	Annual Electricity Demand (kWh)	Annual Electricity Demand (MWh)
Total Parking Spaces	640	-	-	-	-
EV Capable	128	-	-	-	-
EV Charging Stations	64	69.5	64	1,623,520.00	1,623.52

Electricity (Buildings)

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)	Total Annual Natural Gas Consumption (kBtu/year)	Title-24 Electricity Energy Intensity (kWhr/size/year)	Title-24 Natural Gas Energy Intensity (kBtu/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Nontitle-24 Natural Gas Energy Intensity (kBtu/size/year)
Enclosed Parking Garage	839,904.04	0.00	796,673.72	0.00	43,230.32	0.00
EV Charging Stations	1,623,520.00	0.00	2,536.75	0.00	0.00	0.00
Totals:	2,463,424.04	0.00	799,210.47	0.00	43,230.32	0.00

Carbon Intensity Factors

UCB Campus		
Cogeneration Factors ¹		
CO ₂ :	936.964	lbs/MWh
CH ₄ :	0.033	lbs/MWh
N ₂ O:	0.004	lbs/MWh

Notes:

¹ Provided by Applicant.

Regional Construction Emissions Worksheet:

3.1. Demolition (2024) - Unmitigated											
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer									
	Off-Road Equipment	-	-	-	-	-	-	-	-	-	-
	Demolition	-	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite											
	Worker	-	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter									
	Off-Road Equipment	1.61	15.58	16.03	0.02	0.67		0.67	0.62		0.62
	Demolition						4.23	4.23		0.64	0.64
	Onsite truck	0.00	0.01	0.01	0.00	0.00	0.23	0.23	0.00	0.02	0.02
	Total	1.61	15.59	16.04	0.02	0.67	4.47	5.14	0.62	0.66	1.28
Offsite											
	Worker	0.04	0.04	0.48	0.00	0.00	0.44	0.44	0.00	0.11	0.11
	Vendor	0.00	0.18	0.08	0.00	0.00	0.13	0.13	0.00	0.03	0.03
	Hauling	0.04	2.77	1.06	0.01	0.04	1.88	1.92	0.04	0.48	0.52
	Total	0.09	2.99	1.61	0.01	0.04	2.45	2.49	0.04	0.62	0.67
TOTAL		1.71	18.58	17.65	0.04	0.71	6.92	7.63	0.66	1.29	1.95
Onsite		MAX									
	Off-Road Equipment	1.61	15.58	16.03	0.02	0.67	0.00	0.67	0.62	0.00	0.62
	Demolition	0.00	0.00	0.00	0.00	0.00	4.23	4.23	0.00	0.64	0.64
	Onsite truck	0.00	0.01	0.01	0.00	0.00	0.23	0.23	0.00	0.02	0.02
	Total	1.61	15.59	16.04	0.02	0.67	4.47	5.14	0.62	0.66	1.28
Offsite											
	Worker	0.04	0.04	0.48	0.00	0.00	0.44	0.44	0.00	0.11	0.11
	Vendor	0.00	0.18	0.08	0.00	0.00	0.13	0.13	0.00	0.03	0.03
	Hauling	0.04	2.77	1.06	0.01	0.04	1.88	1.92	0.04	0.48	0.52
	Total	0.09	2.99	1.61	0.01	0.04	2.45	2.49	0.04	0.62	0.67
TOTAL		1.71	18.58	17.65	0.04	0.71	6.92	7.63	0.66	1.29	1.95
3.3. Site Preparation (2024) - Unmitigated											
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer									
	Off-Road Equipment	-	-	-	-	-	-	-	-	-	-
	Dust From Material Movement	-	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite											
	Worker	-	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter									
	Off-Road Equipment	1.43	13.69	12.93	0.02	0.65		0.65	0.59		0.59
	Dust From Material Movement						2.44	2.44		1.17	1.17
	Onsite truck	0.00	0.02	0.01	0.00	0.00	0.46	0.46	0.00	0.05	0.05
	Total	1.43	13.71	12.94	0.02	0.65	2.90	3.55	0.59	1.22	1.81
Offsite											
	Worker	0.03	0.03	0.29	0.00	0.00	0.27	0.27	0.00	0.07	0.07
	Vendor	0.00	0.14	0.06	0.00	0.00	0.10	0.10	0.00	0.03	0.03
	Hauling	0.01	0.37	0.14	0.00	0.01	0.25	0.26	0.01	0.06	0.07
	Total	0.04	0.54	0.49	0.00	0.01	0.62	0.63	0.01	0.16	0.16
TOTAL		1.47	14.24	13.43	0.02	0.65	3.53	4.18	0.60	1.38	1.98
Onsite		MAX									
	Off-Road Equipment	1.43	13.69	12.93	0.02	0.65	0.00	0.65	0.59	0.00	0.59
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	2.44	2.44	0.00	1.17	1.17
	Onsite truck	0.00	0.02	0.01	0.00	0.00	0.46	0.46	0.00	0.05	0.05
	Total	1.43	13.71	12.94	0.02	0.65	2.90	3.55	0.59	1.22	1.81
Offsite											
	Worker	0.03	0.03	0.29	0.00	0.00	0.27	0.27	0.00	0.07	0.07
	Vendor	0.00	0.14	0.06	0.00	0.00	0.10	0.10	0.00	0.03	0.03
	Hauling	0.01	0.37	0.14	0.00	0.01	0.25	0.26	0.01	0.06	0.07
	Total	0.04	0.54	0.49	0.00	0.01	0.62	0.63	0.01	0.16	0.16
TOTAL		1.47	14.24	13.43	0.02	0.65	3.53	4.18	0.60	1.38	1.98

3.5. Site Preparation (2025) - Unmitigated											
	ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total	
Onsite	Summer										
	Off-Road Equipment	-	-	-	-	-	-	-	-	-	
	Dust From Material Movement	-	-	-	-	-	-	-	-	-	
	Onsite truck	-	-	-	-	-	-	-	-	-	
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite											
	Worker	-	-	-	-	-	-	-	-	-	
	Vendor	-	-	-	-	-	-	-	-	-	
	Hauling	-	-	-	-	-	-	-	-	-	
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Onsite	Winter										
	Off-Road Equipment	1.31	12.10	12.14	0.02	0.56	0.56	0.52		0.52	
	Dust From Material Movement					2.44	2.44		1.17	1.17	
	Onsite truck	0.00	0.02	0.01	0.00	0.46	0.46	0.00	0.05	0.05	
	Total	1.31	12.12	12.15	0.02	0.56	2.90	0.52	1.22	1.73	
Offsite											
	Worker	0.03	0.02	0.27	0.00	0.00	0.27	0.00	0.07	0.07	
	Vendor	0.00	0.14	0.06	0.00	0.00	0.10	0.00	0.03	0.03	
	Hauling	0.01	0.36	0.14	0.00	0.01	0.25	0.01	0.06	0.07	
	Total	0.04	0.52	0.47	0.00	0.01	0.62	0.01	0.16	0.16	
TOTAL	1.35	12.64	12.62	0.02	0.57	3.53	4.10	0.52	1.38	1.90	
Onsite	MAX										
	Off-Road Equipment	1.31	12.10	12.14	0.02	0.56	0.56	0.52	0.00	0.52	
	Dust From Material Movement	0.00	0.00	0.00	0.00	2.44	2.44	0.00	1.17	1.17	
	Onsite truck	0.00	0.02	0.01	0.00	0.46	0.46	0.00	0.05	0.05	
	Total	1.31	12.12	12.15	0.02	0.56	2.90	0.52	1.22	1.73	
Offsite											
	Worker	0.03	0.02	0.27	0.00	0.00	0.27	0.00	0.07	0.07	
	Vendor	0.00	0.14	0.06	0.00	0.00	0.10	0.00	0.03	0.03	
	Hauling	0.01	0.36	0.14	0.00	0.01	0.25	0.01	0.06	0.07	
	Total	0.04	0.52	0.47	0.00	0.01	0.62	0.01	0.16	0.16	
TOTAL	1.35	12.64	12.62	0.02	0.57	3.53	4.10	0.52	1.38	1.90	
3.7. Grading (2025) - Unmitigated											
	ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total	
Onsite	Summer										
	Off-Road Equipment	-	-	-	-	-	-	-	-	-	
	Dust From Material Movement	-	-	-	-	-	-	-	-	-	
	Onsite truck	-	-	-	-	-	-	-	-	-	
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Offsite											
	Worker	-	-	-	-	-	-	-	-	-	
	Vendor	-	-	-	-	-	-	-	-	-	
	Hauling	-	-	-	-	-	-	-	-	-	
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Onsite	Winter										
	Off-Road Equipment	1.51	14.07	14.51	0.02	0.64	0.64	0.59		0.59	
	Dust From Material Movement					2.77	2.77		1.34	1.34	
	Onsite truck	0.00	0.02	0.01	0.00	0.29	0.29	0.00	0.03	0.03	
	Total	1.51	14.08	14.52	0.02	0.64	3.05	0.59	1.36	1.96	
Offsite											
	Worker	0.03	0.03	0.34	0.00	0.00	0.34	0.00	0.08	0.08	
	Vendor	0.00	0.17	0.07	0.00	0.00	0.13	0.00	0.03	0.03	
	Hauling	0.02	1.07	0.41	0.01	0.02	0.75	0.02	0.19	0.21	
	Total	0.05	1.28	0.83	0.01	0.02	1.22	0.02	0.31	0.33	
TOTAL	1.57	15.36	15.35	0.03	0.66	4.27	4.93	0.61	1.67	2.28	
Onsite	MAX										
	Off-Road Equipment	1.51	14.07	14.51	0.02	0.64	0.64	0.59	0.00	0.59	
	Dust From Material Movement	0.00	0.00	0.00	0.00	2.77	2.77	0.00	1.34	1.34	
	Onsite truck	0.00	0.02	0.01	0.00	0.29	0.29	0.00	0.03	0.03	
	Total	1.51	14.08	14.52	0.02	0.64	3.05	0.59	1.36	1.96	
Offsite											
	Worker	0.03	0.03	0.34	0.00	0.00	0.34	0.00	0.08	0.08	
	Vendor	0.00	0.17	0.07	0.00	0.00	0.13	0.00	0.03	0.03	
	Hauling	0.02	1.07	0.41	0.01	0.02	0.75	0.02	0.19	0.21	
	Total	0.05	1.28	0.83	0.01	0.02	1.22	0.02	0.31	0.33	
TOTAL	1.57	15.36	15.35	0.03	0.66	4.27	4.93	0.61	1.67	2.28	

3.9. Building Construction (2025) - Unmitigated

		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer									
	Off-Road Equipment	1.07	8.95	10.03	0.02	0.33		0.33	0.30		0.30
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.07	8.95	10.03	0.02	0.33	0.00	0.33	0.30	0.00	0.30
Offsite											
	Worker	0.33	0.21	3.69	0.00	0.00	3.27	3.27	0.00	0.80	0.80
	Vendor	0.03	1.24	0.54	0.01	0.01	0.97	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.36	1.45	4.23	0.01	0.01	4.24	4.25	0.01	1.05	1.07
TOTAL		1.42	10.40	14.27	0.03	0.34	4.24	4.58	0.32	1.05	1.37
Onsite		Winter									
	Off-Road Equipment	1.07	8.95	10.03	0.02	0.33		0.33	0.30		0.30
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.07	8.95	10.03	0.02	0.33	0.00	0.33	0.30	0.00	0.30
Offsite											
	Worker	0.31	0.30	3.27	0.00	0.00	3.27	3.27	0.00	0.80	0.80
	Vendor	0.03	1.31	0.56	0.01	0.01	0.97	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.34	1.61	3.82	0.01	0.01	4.24	4.25	0.01	1.05	1.07
TOTAL		1.41	10.55	13.86	0.03	0.34	4.24	4.58	0.32	1.05	1.37
Onsite		MAX									
	Off-Road Equipment	1.07	8.95	10.03	0.02	0.33	0.00	0.33	0.30	0.00	0.30
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.07	8.95	10.03	0.02	0.33	0.00	0.33	0.30	0.00	0.30
Offsite											
	Worker	0.33	0.30	3.69	0.00	0.00	3.27	3.27	0.00	0.80	0.80
	Vendor	0.03	1.31	0.56	0.01	0.01	0.97	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.36	1.61	4.23	0.01	0.01	4.24	4.25	0.01	1.05	1.07
TOTAL		1.42	10.55	14.27	0.03	0.34	4.24	4.58	0.32	1.05	1.37

3.11. Building Construction (2026) - Unmitigated

		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer									
	Off-Road Equipment	-	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite											
	Worker	-	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter									
	Off-Road Equipment	1.01	8.57	9.96	0.02	0.29		0.29	0.27		0.27
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.01	8.57	9.96	0.02	0.29	0.00	0.29	0.27	0.00	0.27
Offsite											
	Worker	0.28	0.27	3.05	0.00	0.00	3.27	3.27	0.00	0.80	0.80
	Vendor	0.03	1.26	0.54	0.01	0.01	0.97	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.31	1.53	3.59	0.01	0.01	4.24	4.25	0.01	1.05	1.07
TOTAL		1.32	10.09	13.54	0.03	0.31	4.24	4.55	0.28	1.05	1.34
Onsite		MAX									
	Off-Road Equipment	1.01	8.57	9.96	0.02	0.29	0.00	0.29	0.27	0.00	0.27
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	1.01	8.57	9.96	0.02	0.29	0.00	0.29	0.27	0.00	0.27
Offsite											
	Worker	0.28	0.27	3.05	0.00	0.00	3.27	3.27	0.00	0.80	0.80
	Vendor	0.03	1.26	0.54	0.01	0.01	0.97	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.31	1.53	3.59	0.01	0.01	4.24	4.25	0.01	1.05	1.07
TOTAL		1.32	10.09	13.54	0.03	0.31	4.24	4.55	0.28	1.05	1.34

3.13. Paving (2026) - Unmitigated											
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer									
	Off-Road Equipment	-	-	-	-	-	-	-	-	-	-
	Paving	-	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite											
	Worker	-	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter									
	Off-Road Equipment	0.47	4.41	6.48	0.01	0.18		0.18	0.17		0.17
	Paving	0.11									
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.58	4.41	6.48	0.01	0.18	0.00	0.18	0.17	0.00	0.17
Offsite											
	Worker	0.04	0.04	0.41	0.00	0.00	0.44	0.44	0.00	0.11	0.11
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.04	0.41	0.00	0.00	0.44	0.44	0.00	0.11	0.11
TOTAL		0.61	4.45	6.89	0.01	0.18	0.44	0.63	0.17	0.11	0.28
Onsite		MAX									
	Off-Road Equipment	0.47	4.41	6.48	0.01	0.18	0.00	0.18	0.17	0.00	0.17
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.58	4.41	6.48	0.01	0.18	0.00	0.18	0.17	0.00	0.17
Offsite											
	Worker	0.04	0.04	0.41	0.00	0.00	0.44	0.44	0.00	0.11	0.11
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.04	0.41	0.00	0.00	0.44	0.44	0.00	0.11	0.11
TOTAL		0.61	4.45	6.89	0.01	0.18	0.44	0.63	0.17	0.11	0.28
3.15. Architectural Coating (2026) - Unmitigated											
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer									
	Off-Road Equipment	-	-	-	-	-	-	-	-	-	-
	Architectural Coatings	-	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite											
	Worker	-	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter									
	Off-Road Equipment	0.12	0.86	1.13	0.00	0.02		0.02	0.02		0.02
	Architectural Coatings	2.75									
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2.87	0.86	1.13	0.00	0.02	0.00	0.02	0.02	0.00	0.02
Offsite											
	Worker	0.06	0.06	0.64	0.00	0.00	0.68	0.68	0.00	0.17	0.17
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.06	0.06	0.64	0.00	0.00	0.68	0.68	0.00	0.17	0.17
TOTAL		2.93	0.91	1.77	0.00	0.02	0.68	0.70	0.02	0.17	0.19
Onsite		MAX									
	Off-Road Equipment	0.12	0.86	1.13	0.00	0.02	0.00	0.02	0.02	0.00	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2.87	0.86	1.13	0.00	0.02	0.00	0.02	0.02	0.00	0.02
Offsite											
	Worker	0.06	0.06	0.64	0.00	0.00	0.68	0.68	0.00	0.17	0.17
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.06	0.06	0.64	0.00	0.00	0.68	0.68	0.00	0.17	0.17
TOTAL		2.93	0.91	1.77	0.00	0.02	0.68	0.70	0.02	0.17	0.19

Unmitigated Construction Summary

Maximum Daily Emissions (Pounds; Onsite + Offsite)	ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
3.1. Demolition (2024) - Unmitigated	2	19	18	0	1	7	8	1	1	2
3.3. Site Preparation (2024) - Unmitigated	1	14	13	0	1	4	4	1	1	2
3.5. Site Preparation (2025) - Unmitigated	1	13	13	0	1	4	4	1	1	2
3.7. Grading (2025) - Unmitigated	2	15	15	0	1	4	5	1	2	2
3.9. Building Construction (2025) - Unmitigated	1	11	14	0	0	4	5	0	1	1
3.11. Building Construction (2026) - Unmitigated	1	10	14	0	0	4	5	0	1	1
3.13. Paving (2026) - Unmitigated	1	4	7	0	0	0	1	0	0	0
3.15. Architectural Coating (2026) - Unmitigated	3	1	2	0	0	1	1	0	0	0

Construction Activity	Total Workdays	Activity Name	Activity Type	Start Date	End Date	Workdays per Week	Total Workdays	
3.1. Demolition (2024) - Unmitigated	23	Demolition	Demolition	0	11/15/2024	12/17/2024	5	23
3.3. Site Preparation (2024) - Unmitigated	10	Site Preparation	Site Preparation	0	12/18/2024	12/31/2024	5	10
3.5. Site Preparation (2025) - Unmitigated	2	Site Preparation	Site Preparation	0	1/1/2025	1/2/2025	5	2
3.7. Grading (2025) - Unmitigated	23	Grading	Grading	0	1/3/2025	2/4/2025	5	23
3.9. Building Construction (2025) - Unmitigated	236	Building Construction	Building Construction	0	2/5/2025	12/31/2025	5	236
3.11. Building Construction (2026) - Unmitigated	30	Building Construction	Building Construction	0	1/1/2026	2/11/2026	5	30
3.13. Paving (2026) - Unmitigated	23	Paving	Paving	0	1/10/2026	2/11/2026	5	23
3.15. Architectural Coating (2026) - Unmitigated	23	Architectural Coating	Architectural Coating	0	1/10/2026	2/11/2026	5	23
TOTAL CALENDAR WORKDAYS	324							

Total Emissions (Pounds; Onsite + Offsite)	ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Dust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
3.1. Demolition (2024) - Unmitigated	39	427	406	1	16	159	175	15	30	45
3.3. Site Preparation (2024) - Unmitigated	15	142	134	0	7	35	42	6	14	20
3.5. Site Preparation (2025) - Unmitigated	3	25	25	0	1	7	8	1	3	4
3.7. Grading (2025) - Unmitigated	36	353	353	1	15	98	113	14	39	53
3.9. Building Construction (2025) - Unmitigated	336	2,490	3,367	6	81	1,000	1,081	75	249	323
3.11. Building Construction (2026) - Unmitigated	40	303	406	1	9	127	136	9	32	40
3.13. Paving (2026) - Unmitigated	14	102	159	0	4	10	14	4	3	6
3.15. Architectural Coating (2026) - Unmitigated	67	21	41	0	1	16	16	0	4	4
TOTAL (lbs)	550	3,865	4,891	9	134	1,453	1,587	124	372	495
AVERAGE DAILY (lbs)	2	12	15	0	0	4	5	0	1	2
Regional Thresholds	54	54	N/A	N/A	82	N/A	N/A	54	N/A	N/A
Exceeds Thresholds?	No	No	No	No	No	Yes	No	No	No	No

Unmitigated Construction HRA Estimates

Unmitigated PM10 Exhaust Emissions (Pounds) ^{1,2}	Daily Onsite PM10 Exhaust	Daily Offsite PM10 Exhaust	(Adjusted) Daily Offsite PM10 Exhaust ³	Total Workdays ⁴	Total Onsite PM10 Exhaust	Total Offsite PM10 Exhaust ³
3.1. Demolition (2024) - Unmitigated	0.672	0.042	0.001	23	15.452	0.015
3.3. Site Preparation (2024) - Unmitigated	0.645	0.007	0.000	10	6.455	0.001
3.5. Site Preparation (2025) - Unmitigated	0.562	0.007	0.000	2	1.123	0.000
3.7. Grading (2025) - Unmitigated	0.643	0.018	0.000	23	14.793	0.007
3.9. Building Construction (2025) - Unmitigated	0.328	0.014	0.000	236	77.463	0.053
3.11. Building Construction (2026) - Unmitigated	0.293	0.014	0.000	30	8.782	0.007
3.13. Paving (2026) - Unmitigated	0.183	0.000	0.000	23	4.205	0.000
3.15. Architectural Coating (2026) - Unmitigated	0.023	0.000	0.000	23	0.533	0.000
TOTALS	3.349	0.101	0.003	324	128.805	0.083
				AVERAGE DAILY LBS	0.39755	0.00026

Unmitigated PM2.5 Exhaust Emissions (Pounds) ^{1,2}	Daily Onsite PM2.5 Exhaust	Daily Offsite PM2.5 Exhaust	(Adjusted) Daily Offsite PM2.5 Exhaust ³	Total Workdays ⁴	Total Onsite PM2.5 Exhaust	Total Offsite PM2.5 Exhaust ³
3.1. Demolition (2024) - Unmitigated	0.618	0.042	0.001	23	14.216	0.015
3.3. Site Preparation (2024) - Unmitigated	0.594	0.007	0.000	10	5.938	0.001
3.5. Site Preparation (2025) - Unmitigated	0.517	0.007	0.000	2	1.033	0.000
3.7. Grading (2025) - Unmitigated	0.592	0.018	0.000	23	13.610	0.007
3.9. Building Construction (2025) - Unmitigated	0.302	0.014	0.000	236	71.266	0.053
3.11. Building Construction (2026) - Unmitigated	0.269	0.014	0.000	30	8.079	0.007
3.13. Paving (2026) - Unmitigated	0.168	0.000	0.000	23	3.869	0.000
3.15. Architectural Coating (2026) - Unmitigated	0.021	0.000	0.000	23	0.490	0.000
TOTALS	3.081	0.101	0.003	324	118.501	0.083
				AVERAGE DAILY LBS	0.36574	0.00026

Unmitigated PM2.5 Dust Emissions (Pounds) ^{1,2}	Daily Onsite PM2.5 Dust	Daily Offsite PM2.5 Dust	(Adjusted) Daily Offsite PM2.5 Dust ³	Total Workdays ⁴	Total Onsite PM2.5 Dust	Total Offsite PM2.5 Dust ³
3.1. Demolition (2024) - Unmitigated	0.664	0.625	0.010	23	15.283	0.230
3.3. Site Preparation (2024) - Unmitigated	1.217	0.158	0.003	10	12.175	0.025
3.5. Site Preparation (2025) - Unmitigated	1.217	0.158	0.003	2	2.435	0.005
3.7. Grading (2025) - Unmitigated	1.365	0.310	0.005	23	31.389	0.114
3.9. Building Construction (2025) - Unmitigated	0.000	1.054	0.017	236	0.000	3.982
3.11. Building Construction (2026) - Unmitigated	0.000	1.054	0.017	30	0.000	0.506
3.13. Paving (2026) - Unmitigated	0.000	0.109	0.002	23	0.000	0.040
3.15. Architectural Coating (2026) - Unmitigated	0.000	0.168	0.003	23	0.000	0.062
TOTALS	4.464	3.635	0.091	324	61.282	4.964
				AVERAGE DAILY LBS	0.18914	0.01532

Health Risk Assessment Estimates			
Construction Year	2024	2025	2026
Workdays	33	261	30
Total Onsite PM10 Exhaust (lbs)	21.9067	93.3796	13.5191
Daily Onsite PM10 Exhaust (lbs)	0.6638	0.3578	0.4506
Total Offsite PM10 Exhaust (lbs)	0.0164	0.0599	0.0068
Daily Offsite PM10 Exhaust (lbs)	0.0005	0.0002	0.0002
Total Onsite PM2.5 Exhaust (lbs)	20.1543	85.9093	12.4375
Daily Onsite PM2.5 Exhaust (lbs)	0.6107	0.3292	0.4146
Total Offsite PM2.5 Exhaust (lbs)	0.0164	0.0599	0.0068
Daily Offsite PM2.5 Exhaust (lbs)	0.0005	0.0002	0.0002
Total Onsite PM2.5 Dust (lbs)	27.4575	33.8241	0.0000
Daily Onsite PM2.5 Dust (lbs)	0.8320	0.1296	0.0000
Total Offsite PM2.5 Dust (lbs)	0.2551	4.1006	0.6079
Daily Offsite PM2.5 Dust (lbs)	0.0077	0.0157	0.0203

Notes:

- Emissions include compliance with BAAQMD Regulation 6.
- The max seasonal daily emission rates (Winter vs Summer) were used for each daily emission estimate.
- Off-site Emissions shown herein account for a reduction in emissions to capture the emissions generated within one-quarter mile of the project site along identified hauling roadways (0.4 miles / 20 miles default hauling distance = 0.016 Adjustment Factor). The estimates provided in this table are used solely for the construction HRA.
- Total emissions are divided by total calendar workdays. Workdays total may not add up due to the omission of days which overlap.

Regional Construction Emissions Worksheet:

3.2. Demolition (2024) - Mitigated										
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer								
	Off-Road Equipment	-	-	-	-	-	-	-	-	-
	Demolition	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite										
	Worker	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter								
	Off-Road Equipment	0.49	8.47	14.68	0.02	0.09	0.09	0.09		0.09
	Demolition						4.23		0.64	0.64
	Onsite truck	0.00	0.01	0.01	0.00	0.00	0.23	0.00	0.02	0.02
	Total	0.49	8.48	14.69	0.02	0.09	4.56	0.09	0.66	0.75
Offsite										
	Worker	0.04	0.04	0.48	0.00	0.00	0.44	0.00	0.11	0.11
	Vendor	0.00	0.18	0.08	0.00	0.00	0.13	0.00	0.03	0.03
	Hauling	0.04	2.77	1.06	0.01	0.04	1.92	0.04	0.48	0.52
	Total	0.09	2.99	1.61	0.01	0.04	2.49	0.04	0.62	0.67
TOTAL		0.58	11.47	16.30	0.04	0.13	7.05	0.13	1.29	1.42
Onsite		MAX								
	Off-Road Equipment	0.49	8.47	14.68	0.02	0.09	0.09	0.09	0.00	0.09
	Demolition	0.00	0.00	0.00	0.00	0.00	4.23	0.00	0.64	0.64
	Onsite truck	0.00	0.01	0.01	0.00	0.00	0.23	0.00	0.02	0.02
	Total	0.49	8.48	14.69	0.02	0.09	4.56	0.09	0.66	0.75
Offsite										
	Worker	0.04	0.04	0.48	0.00	0.00	0.44	0.00	0.11	0.11
	Vendor	0.00	0.18	0.08	0.00	0.00	0.13	0.00	0.03	0.03
	Hauling	0.04	2.77	1.06	0.01	0.04	1.92	0.04	0.48	0.52
	Total	0.09	2.99	1.61	0.01	0.04	2.49	0.04	0.62	0.67
TOTAL		0.58	11.47	16.30	0.04	0.13	7.05	0.13	1.29	1.42
3.4. Site Preparation (2024) - Mitigated										
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer								
	Off-Road Equipment	-	-	-	-	-	-	-	-	-
	Dust From Material Movement	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite										
	Worker	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter								
	Off-Road Equipment	0.27	6.40	11.88	0.02	0.04	0.04	0.04		0.04
	Dust From Material Movement						2.44		1.17	1.17
	Onsite truck	0.00	0.02	0.01	0.00	0.00	0.46	0.00	0.05	0.05
	Total	0.27	6.42	11.89	0.02	0.04	2.94	0.04	1.22	1.26
Offsite										
	Worker	0.03	0.03	0.29	0.00	0.00	0.27	0.00	0.07	0.07
	Vendor	0.00	0.14	0.06	0.00	0.00	0.10	0.00	0.03	0.03
	Hauling	0.01	0.37	0.14	0.00	0.01	0.26	0.01	0.06	0.07
	Total	0.04	0.54	0.49	0.00	0.01	0.63	0.01	0.16	0.16
TOTAL		0.30	6.96	12.39	0.02	0.05	3.57	0.05	1.38	1.42
Onsite		MAX								
	Off-Road Equipment	0.27	6.40	11.88	0.02	0.04	0.04	0.04	0.00	0.04
	Dust From Material Movement	0.00	0.00	0.00	0.00	0.00	2.44	0.00	1.17	1.17
	Onsite truck	0.00	0.02	0.01	0.00	0.00	0.46	0.00	0.05	0.05
	Total	0.27	6.42	11.89	0.02	0.04	2.94	0.04	1.22	1.26
Offsite										
	Worker	0.03	0.03	0.29	0.00	0.00	0.27	0.00	0.07	0.07
	Vendor	0.00	0.14	0.06	0.00	0.00	0.10	0.00	0.03	0.03
	Hauling	0.01	0.37	0.14	0.00	0.01	0.26	0.01	0.06	0.07
	Total	0.04	0.54	0.49	0.00	0.01	0.63	0.01	0.16	0.16
TOTAL		0.30	6.96	12.39	0.02	0.05	3.57	0.05	1.38	1.42

3.6. Site Preparation (2025) - Mitigated										
	ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total	
Onsite	Summer									
	Off-Road Equipment	-	-	-	-	-	-	-	-	-
	Dust From Material Movement	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite										
	Worker	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite	Winter									
	Off-Road Equipment	0.27	6.40	11.88	0.02	0.04	0.04			0.04
	Dust From Material Movement					2.44		1.17		1.17
	Onsite truck	0.00	0.02	0.01	0.00	0.46	0.00	0.05		0.05
	Total	0.27	6.42	11.89	0.02	2.94	0.04	1.22		1.26
Offsite										
	Worker	0.03	0.02	0.27	0.00	0.27	0.00	0.07		0.07
	Vendor	0.00	0.14	0.06	0.00	0.10	0.00	0.03		0.03
	Hauling	0.01	0.36	0.14	0.00	0.26	0.01	0.06		0.07
	Total	0.04	0.52	0.47	0.00	0.63	0.01	0.16		0.16
TOTAL	0.30	6.94	12.36	0.02	0.05	3.57	0.05	1.38		1.42
Onsite	MAX									
	Off-Road Equipment	0.27	6.40	11.88	0.02	0.04	0.04	0.00		0.04
	Dust From Material Movement	0.00	0.00	0.00	0.00	2.44	0.00	1.17		1.17
	Onsite truck	0.00	0.02	0.01	0.00	0.46	0.00	0.05		0.05
	Total	0.27	6.42	11.89	0.02	2.94	0.04	1.22		1.26
Offsite										
	Worker	0.03	0.02	0.27	0.00	0.27	0.00	0.07		0.07
	Vendor	0.00	0.14	0.06	0.00	0.10	0.00	0.03		0.03
	Hauling	0.01	0.36	0.14	0.00	0.26	0.01	0.06		0.07
	Total	0.04	0.52	0.47	0.00	0.63	0.01	0.16		0.16
TOTAL	0.30	6.94	12.36	0.02	0.05	3.57	0.05	1.38		1.42
3.8. Grading (2025) - Mitigated										
	ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total	
Onsite	Summer									
	Off-Road Equipment	-	-	-	-	-	-	-	-	-
	Dust From Material Movement	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite										
	Worker	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite	Winter									
	Off-Road Equipment	0.32	7.70	14.24	0.02	0.05	0.05			0.05
	Dust From Material Movement					2.77		1.34		1.34
	Onsite truck	0.00	0.02	0.01	0.00	0.29	0.00	0.03		0.03
	Total	0.32	7.72	14.25	0.02	3.10	0.05	1.36		1.41
Offsite										
	Worker	0.03	0.03	0.34	0.00	0.34	0.00	0.08		0.08
	Vendor	0.00	0.17	0.07	0.00	0.13	0.00	0.03		0.03
	Hauling	0.02	1.07	0.41	0.01	0.77	0.02	0.19		0.21
	Total	0.05	1.28	0.83	0.01	1.24	0.02	0.31		0.33
TOTAL	0.37	9.00	15.08	0.03	0.06	4.33	0.06	1.67		1.74
Onsite	MAX									
	Off-Road Equipment	0.32	7.70	14.24	0.02	0.05	0.05	0.00		0.05
	Dust From Material Movement	0.00	0.00	0.00	0.00	2.77	0.00	1.34		1.34
	Onsite truck	0.00	0.02	0.01	0.00	0.29	0.00	0.03		0.03
	Total	0.32	7.72	14.25	0.02	3.10	0.05	1.36		1.41
Offsite										
	Worker	0.03	0.03	0.34	0.00	0.34	0.00	0.08		0.08
	Vendor	0.00	0.17	0.07	0.00	0.13	0.00	0.03		0.03
	Hauling	0.02	1.07	0.41	0.01	0.77	0.02	0.19		0.21
	Total	0.05	1.28	0.83	0.01	1.24	0.02	0.31		0.33
TOTAL	0.37	9.00	15.08	0.03	0.06	4.33	0.06	1.67		1.74

3.10. Building Construction (2025) - Mitigated										
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer								
	Off-Road Equipment	0.78	7.99	11.46	0.02	0.18	0.18	0.16		0.16
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.78	7.99	11.46	0.02	0.18	0.18	0.16	0.00	0.16
Offsite										
	Worker	0.33	0.21	3.69	0.00	0.00	3.27	0.00	0.80	0.80
	Vendor	0.03	1.24	0.54	0.01	0.01	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.36	1.45	4.23	0.01	0.01	4.25	0.01	1.05	1.07
TOTAL		1.14	9.44	15.70	0.03	0.19	4.43	0.18	1.05	1.23
Onsite		Winter								
	Off-Road Equipment	0.78	7.99	11.46	0.02	0.18	0.18	0.16		0.16
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.78	7.99	11.46	0.02	0.18	0.18	0.16	0.00	0.16
Offsite										
	Worker	0.31	0.30	3.27	0.00	0.00	3.27	0.00	0.80	0.80
	Vendor	0.03	1.31	0.56	0.01	0.01	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.34	1.61	3.82	0.01	0.01	4.25	0.01	1.05	1.07
TOTAL		1.12	9.59	15.29	0.03	0.19	4.43	0.18	1.05	1.23
Onsite		MAX								
	Off-Road Equipment	0.78	7.99	11.46	0.02	0.18	0.18	0.16	0.00	0.16
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.78	7.99	11.46	0.02	0.18	0.18	0.16	0.00	0.16
Offsite										
	Worker	0.33	0.30	3.69	0.00	0.00	3.27	0.00	0.80	0.80
	Vendor	0.03	1.31	0.56	0.01	0.01	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.36	1.61	4.23	0.01	0.01	4.25	0.01	1.05	1.07
TOTAL		1.14	9.59	15.70	0.03	0.19	4.43	0.18	1.05	1.23
3.12. Building Construction (2026) - Mitigated										
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer								
	Off-Road Equipment	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite										
	Worker	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter								
	Off-Road Equipment	0.74	7.87	11.43	0.02	0.16	0.16	0.15		0.15
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.74	7.87	11.43	0.02	0.16	0.16	0.15	0.00	0.15
Offsite										
	Worker	0.28	0.27	3.05	0.00	0.00	3.27	0.00	0.80	0.80
	Vendor	0.03	1.26	0.54	0.01	0.01	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.31	1.53	3.59	0.01	0.01	4.25	0.01	1.05	1.07
TOTAL		1.05	9.39	15.01	0.03	0.17	4.41	0.16	1.05	1.21
Onsite		MAX								
	Off-Road Equipment	0.74	7.87	11.43	0.02	0.16	0.16	0.15	0.00	0.15
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.74	7.87	11.43	0.02	0.16	0.16	0.15	0.00	0.15
Offsite										
	Worker	0.28	0.27	3.05	0.00	0.00	3.27	0.00	0.80	0.80
	Vendor	0.03	1.26	0.54	0.01	0.01	0.99	0.01	0.25	0.26
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.31	1.53	3.59	0.01	0.01	4.25	0.01	1.05	1.07
TOTAL		1.05	9.39	15.01	0.03	0.17	4.41	0.16	1.05	1.21

3.14. Paving (2026) - Mitigated										
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer								
	Off-Road Equipment	-	-	-	-	-	-	-	-	-
	Paving	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite										
	Worker	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter								
	Off-Road Equipment	0.19	4.63	6.89	0.01	0.06	0.06	0.05		0.05
	Paving	0.11								
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.29	4.63	6.89	0.01	0.06	0.06	0.05	0.00	0.05
Offsite										
	Worker	0.04	0.04	0.41	0.00	0.00	0.44	0.00	0.11	0.11
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.04	0.41	0.00	0.00	0.44	0.00	0.11	0.11
TOTAL		0.33	4.67	7.30	0.01	0.06	0.50	0.05	0.11	0.16
Onsite		MAX								
	Off-Road Equipment	0.19	4.63	6.89	0.01	0.06	0.06	0.05	0.00	0.05
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.29	4.63	6.89	0.01	0.06	0.06	0.05	0.00	0.05
Offsite										
	Worker	0.04	0.04	0.41	0.00	0.00	0.44	0.00	0.11	0.11
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.04	0.41	0.00	0.00	0.44	0.00	0.11	0.11
TOTAL		0.33	4.67	7.30	0.01	0.06	0.50	0.05	0.11	0.16
3.16. Architectural Coating (2026) - Mitigated										
		ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
Onsite		Summer								
	Off-Road Equipment	-	-	-	-	-	-	-	-	-
	Architectural Coatings	-	-	-	-	-	-	-	-	-
	Onsite truck	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite										
	Worker	-	-	-	-	-	-	-	-	-
	Vendor	-	-	-	-	-	-	-	-	-
	Hauling	-	-	-	-	-	-	-	-	-
	Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Onsite		Winter								
	Off-Road Equipment	0.12	0.86	1.13	0.00	0.02	0.02	0.02		0.02
	Architectural Coatings	2.75								
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2.87	0.86	1.13	0.00	0.02	0.02	0.02	0.00	0.02
Offsite										
	Worker	0.06	0.06	0.64	0.00	0.00	0.68	0.00	0.17	0.17
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.06	0.06	0.64	0.00	0.00	0.68	0.00	0.17	0.17
TOTAL		2.93	0.91	1.77	0.00	0.02	0.70	0.02	0.17	0.19
Onsite		MAX								
	Off-Road Equipment	0.12	0.86	1.13	0.00	0.02	0.02	0.02	0.00	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	2.87	0.86	1.13	0.00	0.02	0.02	0.02	0.00	0.02
Offsite										
	Worker	0.06	0.06	0.64	0.00	0.00	0.68	0.00	0.17	0.17
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.06	0.06	0.64	0.00	0.00	0.68	0.00	0.17	0.17
TOTAL		2.93	0.91	1.77	0.00	0.02	0.70	0.02	0.17	0.19

Mitigated Construction Summary

Maximum Daily Emissions (Pounds; Onsite + Offsite)	ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
3.2. Demolition (2024) - Mitigated	1	11	16	0	0	7	0	1	1
3.4. Site Preparation (2024) - Mitigated	0	7	12	0	0	4	0	1	1
3.6. Site Preparation (2025) - Mitigated	0	7	12	0	0	4	0	1	1
3.8. Grading (2025) - Mitigated	0	9	15	0	0	4	0	2	2
3.10. Building Construction (2025) - Mitigated	1	10	16	0	0	4	0	1	1
3.12. Building Construction (2026) - Mitigated	1	9	15	0	0	4	0	1	1
3.14. Paving (2026) - Mitigated	0	5	7	0	0	0	0	0	0
3.16. Architectural Coating (2026) - Mitigated	3	1	2	0	0	1	0	0	0

Construction Activity	Total Workdays	Activity Name	Activity Type	Start Date	End Date	Workdays per Week	Total Workdays
3.2. Demolition (2024) - Mitigated	23	Demolition	Demolition	11/15/2024	12/17/2024	5	23
3.4. Site Preparation (2024) - Mitigated	10	Site Preparation	Site Preparation	12/18/2024	12/31/2024	5	10
3.6. Site Preparation (2025) - Mitigated	2	Site Preparation	Site Preparation	1/1/2025	1/2/2025	5	2
3.8. Grading (2025) - Mitigated	23	Grading	Grading	1/3/2025	2/4/2025	5	23
3.10. Building Construction (2025) - Mitigated	236	Building Construction	Building Construction	2/5/2025	12/31/2025	5	236
3.12. Building Construction (2026) - Mitigated	30	Building Construction	Building Construction	1/1/2026	2/11/2026	5	30
3.14. Paving (2026) - Mitigated	23	Paving	Paving	1/10/2026	2/11/2026	5	23
3.16. Architectural Coating (2026) - Mitigated	23	Architectural Coating	Architectural Coating	1/10/2026	2/11/2026	5	23
TOTAL CALENDAR WORKDAYS	324						

Total Emissions (Pounds; Onsite + Offsite)	ROG	NOx	CO	SO ₂	PM10 Exhaust	PM10 Total	PM2.5 Exhaust	PM2.5 Dust	PM2.5Total
3.2. Demolition (2024) - Mitigated	13	264	375	1	3	162	3	30	33
3.4. Site Preparation (2024) - Mitigated	3	70	124	0	0	36	0	14	14
3.6. Site Preparation (2025) - Mitigated	1	14	25	0	0	7	0	3	3
3.8. Grading (2025) - Mitigated	9	207	347	1	1	100	1	39	40
3.10. Building Construction (2025) - Mitigated	268	2,264	3,704	6	45	1,045	42	249	291
3.12. Building Construction (2026) - Mitigated	31	282	450	1	5	132	5	32	36
3.14. Paving (2026) - Mitigated	8	107	168	0	1	11	1	3	4
3.16. Architectural Coating (2026) - Mitigated	67	21	41	0	1	16	0	4	4
TOTAL (lbs)	400	3,229	5,234	9	57	1,510	53	372	425
AVERAGE DAILY (lbs)	1	10	16	0	0	5	0	1	1
Regional Thresholds	54	54	N/A	N/A	82	N/A	54	N/A	N/A
Exceeds Thresholds?	No	No	No	No	No	No	No	No	No

Mitigated Construction HRA Estimates

Unmitigated PM10 Exhaust Emissions (Pounds) ^{1,2}	Daily Onsite PM10 Exhaust	Daily Offsite PM10 Exhaust	(Adjusted) Daily Offsite PM10 Exhaust ³	Total Workdays ⁴	Total Onsite PM10 Exhaust	Total Offsite PM10 Exhaust ³
3.2. Demolition (2024) - Mitigated	0.092	0.042	0.001	23	2.120	0.015
3.4. Site Preparation (2024) - Mitigated	0.039	0.007	0.000	10	0.389	0.001
3.6. Site Preparation (2025) - Mitigated	0.039	0.007	0.000	2	0.078	0.000
3.8. Grading (2025) - Mitigated	0.046	0.018	0.000	23	1.063	0.007
3.10. Building Construction (2025) - Mitigated	0.176	0.014	0.000	236	41.572	0.053
3.12. Building Construction (2026) - Mitigated	0.157	0.014	0.000	30	4.703	0.007
3.14. Paving (2026) - Mitigated	0.055	0.000	0.000	23	1.269	0.000
3.16. Architectural Coating (2026) - Mitigated	0.023	0.000	0.000	23	0.533	0.000
TOTALS	0.627	0.101	0.003	324	51.727	0.083
				AVERAGE DAILY LBS	0.15965	0.00026

Unmitigated PM2.5 Exhaust Emissions (Pounds) ^{1,2}	Daily Onsite PM2.5 Exhaust	Daily Offsite PM2.5 Exhaust	(Adjusted) Daily Offsite PM2.5 Exhaust ³	Total Workdays ⁴	Total Onsite PM2.5 Exhaust	Total Offsite PM2.5 Exhaust ³
3.2. Demolition (2024) - Mitigated	0.088	0.042	0.001	23	2.028	0.015
3.4. Site Preparation (2024) - Mitigated	0.039	0.007	0.000	10	0.389	0.001
3.6. Site Preparation (2025) - Mitigated	0.039	0.007	0.000	2	0.078	0.000
3.8. Grading (2025) - Mitigated	0.046	0.018	0.000	23	1.063	0.007
3.10. Building Construction (2025) - Mitigated	0.164	0.014	0.000	236	38.630	0.053
3.12. Building Construction (2026) - Mitigated	0.146	0.014	0.000	30	4.376	0.007
3.14. Paving (2026) - Mitigated	0.052	0.000	0.000	23	1.198	0.000
3.16. Architectural Coating (2026) - Mitigated	0.021	0.000	0.000	23	0.490	0.000
TOTALS	0.595	0.101	0.003	324	48.253	0.083
				AVERAGE DAILY LBS	0.14893	0.00026

Unmitigated PM2.5 Dust Emissions (Pounds) ^{1,2}	Daily Onsite PM2.5 Dust	Daily Offsite PM2.5 Dust	(Adjusted) Daily Offsite PM2.5 Dust ³	Total Workdays ⁴	Total Onsite PM2.5 Dust	Total Offsite PM2.5 Dust ³
3.2. Demolition (2024) - Mitigated	0.664	0.625	0.010	23	15.283	0.230
3.4. Site Preparation (2024) - Mitigated	1.217	0.158	0.003	10	12.175	0.025
3.6. Site Preparation (2025) - Mitigated	1.217	0.158	0.003	2	2.435	0.005
3.8. Grading (2025) - Mitigated	1.365	0.310	0.005	23	31.389	0.114
3.10. Building Construction (2025) - Mitigated	0.000	1.054	0.017	236	0.000	3.982
3.12. Building Construction (2026) - Mitigated	0.000	1.054	0.017	30	0.000	0.506
3.14. Paving (2026) - Mitigated	0.000	0.109	0.002	23	0.000	0.040
3.16. Architectural Coating (2026) - Mitigated	0.000	0.168	0.003	23	0.000	0.062
TOTALS	4.464	3.635	0.091	324	61.282	4.964
				AVERAGE DAILY LBS	0.18914	0.01532

Health Risk Assessment Estimates			
Construction Year	2024	2025	2026
Workdays	33	261	30
Total Onsite PM10 Exhaust (lbs)	2.5091	42.7128	6.5046
Daily Onsite PM10 Exhaust (lbs)	0.0760	0.1637	0.2168
Total Offsite PM10 Exhaust (lbs)	0.0164	0.0599	0.0068
Daily Offsite PM10 Exhaust (lbs)	0.0005	0.0002	0.0002
Total Onsite PM2.5 Exhaust (lbs)	2.4175	39.7714	6.0638
Daily Onsite PM2.5 Exhaust (lbs)	0.0733	0.1524	0.2021
Total Offsite PM2.5 Exhaust (lbs)	0.0164	0.0599	0.0068
Daily Offsite PM2.5 Exhaust (lbs)	0.0005	0.0002	0.0002
Total Onsite PM2.5 Dust (lbs)	27.4575	33.8241	0.0000
Daily Onsite PM2.5 Dust (lbs)	0.8320	0.1296	0.0000
Total Offsite PM2.5 Dust (lbs)	0.2551	4.1006	0.6079
Daily Offsite PM2.5 Dust (lbs)	0.0077	0.0157	0.0203

Notes:

- Emissions include compliance with BAAQMD Regulation 6.
- The max seasonal daily emission rates (Winter vs Summer) were used for each daily emission estimate.
- Off-site Emissions shown herein account for a reduction in emissions to capture the emissions generated within one-quarter mile of the project site along identified hauling roadways (0.4 miles / 20 miles default hauling distance = 0.016 Adjustment Factor). The estimates provided in this table are used solely for the construction HRA.
- Total emissions are divided by total calendar workdays. Workdays total may not add up due to the omission of days which overlap.

UCB-01.5 Bancroft Parking Garage Redevelopment Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	UCB-01.5 Bancroft Parking Garage Redevelopment
Construction Start Date	11/1/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.90
Precipitation (days)	44.2
Location	37.86962811236809, -122.25588285857044
County	Alameda
City	Berkeley
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1585
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
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Enclosed Parking with Elevator	640	Space	0.93	227,528	10,798	0.00	—	—
Other Non-Asphalt Surfaces	15.6	1000sqft	0.36	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.70	1.42	10.4	14.3	0.03	0.34	4.24	4.58	0.32	1.05	1.37	—	3,645	3,645	0.13	0.19	6.02	3,711
Mit.	1.33	1.14	9.44	15.7	0.03	0.19	4.24	4.43	0.18	1.05	1.23	—	3,645	3,645	0.13	0.19	6.02	3,711
% Reduced	22%	20%	9%	-10%	—	44%	—	3%	44%	—	10%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.41	3.93	18.6	22.2	0.04	0.71	6.68	7.40	0.66	1.65	2.26	—	4,938	4,938	0.22	0.38	0.17	5,007
Mit.	1.70	3.37	15.0	24.1	0.04	0.25	6.68	6.82	0.23	1.65	1.71	—	4,938	4,938	0.22	0.38	0.17	5,007
% Reduced	30%	14%	19%	-8%	—	65%	—	8%	65%	—	24%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.21	1.01	7.79	9.89	0.02	0.26	2.92	3.18	0.24	0.77	1.01	—	2,550	2,550	0.10	0.14	1.75	2,595
Mit.	0.87	0.75	6.75	10.8	0.02	0.13	2.92	3.04	0.12	0.77	0.89	—	2,550	2,550	0.10	0.14	1.75	2,595
% Reduced	28%	26%	13%	-9%	—	52%	—	4%	51%	—	12%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.22	0.19	1.42	1.81	< 0.005	0.05	0.53	0.58	0.04	0.14	0.19	—	422	422	0.02	0.02	0.29	430
Mit.	0.16	0.14	1.23	1.97	< 0.005	0.02	0.53	0.56	0.02	0.14	0.16	—	422	422	0.02	0.02	0.29	430
% Reduced	28%	26%	13%	-9%	—	52%	—	4%	51%	—	12%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.70	1.42	10.4	14.3	0.03	0.34	4.24	4.58	0.32	1.05	1.37	—	3,645	3,645	0.13	0.19	6.02	3,711
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.14	1.71	18.6	17.6	0.04	0.71	6.68	7.40	0.66	1.33	1.93	—	4,882	4,882	0.22	0.38	0.14	5,002
2025	1.91	1.57	15.4	15.3	0.03	0.66	4.24	4.65	0.61	1.65	2.26	—	3,585	3,585	0.15	0.20	0.16	3,647
2026	2.41	3.93	15.5	22.2	0.04	0.51	5.36	5.88	0.47	1.33	1.80	—	4,938	4,938	0.18	0.22	0.17	5,007
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.15	1.56	1.48	< 0.005	0.06	0.50	0.56	0.06	0.12	0.17	—	377	377	0.02	0.03	0.17	385
2025	1.21	1.01	7.79	9.89	0.02	0.26	2.92	3.18	0.24	0.77	1.01	—	2,550	2,550	0.10	0.14	1.75	2,595

2026	0.18	0.27	1.16	1.65	< 0.005	0.04	0.41	0.45	0.04	0.10	0.14	—	380	380	0.01	0.02	0.23	385
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.03	0.03	0.28	0.27	< 0.005	0.01	0.09	0.10	0.01	0.02	0.03	—	62.4	62.4	< 0.005	< 0.005	0.03	63.8
2025	0.22	0.19	1.42	1.81	< 0.005	0.05	0.53	0.58	0.04	0.14	0.19	—	422	422	0.02	0.02	0.29	430
2026	0.03	0.05	0.21	0.30	< 0.005	0.01	0.07	0.08	0.01	0.02	0.02	—	62.9	62.9	< 0.005	< 0.005	0.04	63.8

2.3. Construction Emissions by Year, Mitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.33	1.14	9.44	15.7	0.03	0.19	4.24	4.43	0.18	1.05	1.23	—	3,645	3,645	0.13	0.19	6.02	3,711
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.74	0.58	11.5	16.3	0.04	0.13	6.68	6.82	0.13	1.33	1.40	—	4,882	4,882	0.22	0.38	0.14	5,002
2025	1.31	1.12	9.59	15.3	0.03	0.19	4.24	4.43	0.18	1.65	1.71	—	3,585	3,585	0.15	0.20	0.16	3,647
2026	1.70	3.37	15.0	24.1	0.04	0.25	5.36	5.61	0.23	1.33	1.56	—	4,938	4,938	0.18	0.22	0.17	5,007
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.06	0.04	0.91	1.36	< 0.005	0.01	0.50	0.51	0.01	0.12	0.12	—	377	377	0.02	0.03	0.17	385
2025	0.87	0.75	6.75	10.8	0.02	0.13	2.92	3.04	0.12	0.77	0.89	—	2,550	2,550	0.10	0.14	1.75	2,595
2026	0.13	0.23	1.12	1.80	< 0.005	0.02	0.41	0.43	0.02	0.10	0.12	—	380	380	0.01	0.02	0.23	385
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.01	0.01	0.17	0.25	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	62.4	62.4	< 0.005	< 0.005	0.03	63.8
2025	0.16	0.14	1.23	1.97	< 0.005	0.02	0.53	0.56	0.02	0.14	0.16	—	422	422	0.02	0.02	0.29	430
2026	0.02	0.04	0.20	0.33	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	62.9	62.9	< 0.005	< 0.005	0.04	63.8

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.95	1.80	0.55	10.3	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	6,452	6,452	0.23	0.03	0.00	6,466
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.18	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	6,411	6,411	0.23	0.03	0.00	6,425
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.98	0.92	0.33	5.15	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	6,399	6,399	0.23	0.03	0.00	6,413
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.18	0.17	0.06	0.94	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	1,059	1,059	0.04	< 0.005	0.00	1,062

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	1.76	1.64	0.08	9.90	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.7	40.7	< 0.005	< 0.005	—	40.8
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6,324	6,324	0.22	0.03	—	6,337
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Stationar	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Total	1.95	1.80	0.55	10.3	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	6,452	6,452	0.23	0.03	0.00	6,466
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6,324	6,324	0.22	0.03	—	6,337
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationar y	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Total	0.19	0.18	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	6,411	6,411	0.23	0.03	0.00	6,425
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.87	0.81	0.04	4.88	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.1	20.1	< 0.005	< 0.005	—	20.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6,324	6,324	0.22	0.03	—	6,337
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationar y	0.11	0.10	0.29	0.27	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	53.4	53.4	< 0.005	< 0.005	0.00	53.6
Total	0.98	0.92	0.33	5.15	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	6,399	6,399	0.23	0.03	0.00	6,413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.16	0.15	0.01	0.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.32	3.32	< 0.005	< 0.005	—	3.33
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,047	1,047	0.04	< 0.005	—	1,049
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.26	0.26	< 0.005	< 0.005	—	0.26
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Stationar	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.84	8.84	< 0.005	< 0.005	0.00	8.87
Total	0.18	0.17	0.06	0.94	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	1,059	1,059	0.04	< 0.005	0.00	1,062

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	1.76	1.64	0.08	9.90	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.7	40.7	< 0.005	< 0.005	—	40.8
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6,324	6,324	0.22	0.03	—	6,337
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationar y	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Total	1.95	1.80	0.55	10.3	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	6,452	6,452	0.23	0.03	0.00	6,466
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6,324	6,324	0.22	0.03	—	6,337
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationar y	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Total	0.19	0.18	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	6,411	6,411	0.23	0.03	0.00	6,425
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.87	0.81	0.04	4.88	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.1	20.1	< 0.005	< 0.005	—	20.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	6,324	6,324	0.22	0.03	—	6,337
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.11	0.10	0.29	0.27	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	53.4	53.4	< 0.005	< 0.005	0.00	53.6
Total	0.98	0.92	0.33	5.15	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	6,399	6,399	0.23	0.03	0.00	6,413
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.16	0.15	0.01	0.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.32	3.32	< 0.005	< 0.005	—	3.33
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,047	1,047	0.04	< 0.005	—	1,049
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.26	0.26	< 0.005	< 0.005	—	0.26
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Stationary	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.84	8.84	< 0.005	< 0.005	0.00	8.87
Total	0.18	0.17	0.06	0.94	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	1,059	1,059	0.04	< 0.005	0.00	1,062

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.92	1.61	15.6	16.0	0.02	0.67	—	0.67	0.62	—	0.62	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	4.23	4.23	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.98	1.01	< 0.005	0.04	—	0.04	0.04	—	0.04	—	157	157	0.01	< 0.005	—	158
Demolition	—	—	—	—	—	—	0.27	0.27	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.18	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.0	26.0	< 0.005	< 0.005	—	26.1
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.48	0.00	0.00	0.44	0.44	0.00	0.11	0.11	—	106	106	< 0.005	< 0.005	0.01	108
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.13	0.13	< 0.005	0.03	0.03	—	135	135	0.01	0.02	0.01	142

Hauling	0.16	0.04	2.77	1.06	0.01	0.04	1.88	1.92	0.04	0.48	0.52	—	2,143	2,143	0.11	0.34	0.12	2,247
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	6.76	6.76	< 0.005	< 0.005	0.01	6.86
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	8.53	8.53	< 0.005	< 0.005	0.01	8.93
Hauling	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	135	135	0.01	0.02	0.13	142
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.14
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.41	1.41	< 0.005	< 0.005	< 0.005	1.48
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	22.3	22.3	< 0.005	< 0.005	0.02	23.5

3.2. Demolition (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.49	8.47	14.7	0.02	0.09	—	0.09	0.09	—	0.09	—	2,494	2,494	0.10	0.02	—	2,502
Demolition	—	—	—	—	—	—	4.23	4.23	—	0.64	0.64	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.53	0.92	< 0.005	0.01	—	0.01	0.01	—	0.01	—	157	157	0.01	< 0.005	—	158

Demolition	—	—	—	—	—	—	0.27	0.27	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.23	0.23	< 0.005	< 0.005	< 0.005	0.24
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.0	26.0	< 0.005	< 0.005	—	26.1
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.48	0.00	0.00	0.44	0.44	0.00	0.11	0.11	—	106	106	< 0.005	< 0.005	0.01	108
Vendor	0.01	< 0.005	0.18	0.08	< 0.005	< 0.005	0.13	0.13	< 0.005	0.03	0.03	—	135	135	0.01	0.02	0.01	142
Hauling	0.16	0.04	2.77	1.06	0.01	0.04	1.88	1.92	0.04	0.48	0.52	—	2,143	2,143	0.11	0.34	0.12	2,247
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	6.76	6.76	< 0.005	< 0.005	0.01	6.86
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	8.53	8.53	< 0.005	< 0.005	0.01	8.93
Hauling	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.12	0.12	< 0.005	0.03	0.03	—	135	135	0.01	0.02	0.13	142
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.12	1.12	< 0.005	< 0.005	< 0.005	1.14
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.41	1.41	< 0.005	< 0.005	< 0.005	1.48
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	22.3	22.3	< 0.005	< 0.005	0.02	23.5

3.3. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	1.43	13.7	12.9	0.02	0.65	—	0.65	0.59	—	0.59	—	2,064	2,064	0.08	0.02	—	2,071
Dust From Material Movement	—	—	—	—	—	—	2.44	2.44	—	1.17	1.17	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.08	6.08	< 0.005	< 0.005	< 0.005	6.39
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.37	0.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	56.5	56.5	< 0.005	< 0.005	—	56.7
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.36	9.36	< 0.005	< 0.005	—	9.39

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.29	0.00	0.00	0.27	0.27	0.00	0.07	0.07	—	65.5	65.5	< 0.005	< 0.005	0.01	66.4
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	108	108	< 0.005	0.02	0.01	113
Hauling	0.02	0.01	0.37	0.14	< 0.005	0.01	0.25	0.26	0.01	0.06	0.07	—	286	286	0.01	0.05	0.02	300
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	1.81	1.81	< 0.005	< 0.005	< 0.005	1.83
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.11
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	7.83	7.83	< 0.005	< 0.005	0.01	8.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.51
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.36

3.4. Site Preparation (2024) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.27	6.40	11.9	0.02	0.04	—	0.04	0.04	—	0.04	—	2,064	2,064	0.08	0.02	—	2,071
Dust From Material Movement	—	—	—	—	—	—	2.44	2.44	—	1.17	1.17	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.08	6.08	< 0.005	< 0.005	< 0.005	6.39
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.18	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56.5	56.5	< 0.005	< 0.005	—	56.7
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.17	0.17	< 0.005	< 0.005	< 0.005	0.17
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.36	9.36	< 0.005	< 0.005	—	9.39
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.29	0.00	0.00	0.27	0.27	0.00	0.07	0.07	—	65.5	65.5	< 0.005	< 0.005	0.01	66.4
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	108	108	< 0.005	0.02	0.01	113
Hauling	0.02	0.01	0.37	0.14	< 0.005	0.01	0.25	0.26	0.01	0.06	0.07	—	286	286	0.01	0.05	0.02	300
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	1.81	1.81	< 0.005	< 0.005	< 0.005	1.83
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.97	2.97	< 0.005	< 0.005	< 0.005	3.11
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	7.83	7.83	< 0.005	< 0.005	0.01	8.21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.30	0.30	< 0.005	< 0.005	< 0.005	0.30
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.49	0.49	< 0.005	< 0.005	< 0.005	0.51
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	< 0.005	< 0.005	< 0.005	1.36

3.5. Site Preparation (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.56	1.31	12.1	12.1	0.02	0.56	—	0.56	0.52	—	0.52	—	2,065	2,065	0.08	0.02	—	2,072

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Dust From Material Movement	—	—	—	—	—	—	2.44	2.44	—	1.17	1.17	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.98	5.98	< 0.005	< 0.005	< 0.005	6.29
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.08	8.08	< 0.005	< 0.005	—	8.11
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.34	1.34	< 0.005	< 0.005	—	1.34
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.27	0.00	0.00	0.27	0.27	0.00	0.07	0.07	—	64.3	64.3	< 0.005	< 0.005	0.01	65.1
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	107	107	< 0.005	0.02	0.01	111
Hauling	0.02	0.01	0.36	0.14	< 0.005	0.01	0.25	0.26	0.01	0.06	0.07	—	281	281	0.01	0.05	0.02	295

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Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.44
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.10	1.10	< 0.005	< 0.005	< 0.005	1.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19

3.6. Site Preparation (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.27	6.40	11.9	0.02	0.04	—	0.04	0.04	—	0.04	—	2,065	2,065	0.08	0.02	—	2,072
Dust From Material Movement	—	—	—	—	—	—	2.44	2.44	—	1.17	1.17	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.98	5.98	< 0.005	< 0.005	< 0.005	6.29
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.08	8.08	< 0.005	< 0.005	—	8.11

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.34	1.34	< 0.005	< 0.005	—	1.34
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.27	0.00	0.00	0.27	0.27	0.00	0.07	0.07	—	64.3	64.3	< 0.005	< 0.005	0.01	65.1
Vendor	0.01	< 0.005	0.14	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	107	107	< 0.005	0.02	0.01	111
Hauling	0.02	0.01	0.36	0.14	< 0.005	0.01	0.25	0.26	0.01	0.06	0.07	—	281	281	0.01	0.05	0.02	295
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.25	0.25	< 0.005	< 0.005	< 0.005	0.26
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.44
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.10	1.10	< 0.005	< 0.005	< 0.005	1.15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.04	0.04	< 0.005	< 0.005	< 0.005	0.04
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07

Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.18	0.18	< 0.005	< 0.005	< 0.005	0.19
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3.7. Grading (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.80	1.51	14.1	14.5	0.02	0.64	—	0.64	0.59	—	0.59	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.37	4.37	< 0.005	< 0.005	< 0.005	4.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.89	0.91	< 0.005	0.04	—	0.04	0.04	—	0.04	—	155	155	0.01	< 0.005	—	155
Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	25.6	25.6	< 0.005	< 0.005	—	25.7

Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.34	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	80.3	80.3	< 0.005	< 0.005	0.01	81.4
Vendor	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.13	0.13	< 0.005	0.03	0.03	—	133	133	0.01	0.02	0.01	139
Hauling	0.06	0.02	1.07	0.41	0.01	0.02	0.75	0.77	0.02	0.19	0.21	—	842	842	0.04	0.14	0.05	884
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	5.10	5.10	< 0.005	< 0.005	0.01	5.17
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	8.39	8.39	< 0.005	< 0.005	0.01	8.78
Hauling	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	53.0	53.0	< 0.005	0.01	0.05	55.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.86
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.45
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	8.78	8.78	< 0.005	< 0.005	0.01	9.22

3.8. Grading (2025) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.32	7.70	14.2	0.02	0.05	—	0.05	0.05	—	0.05	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	2.77	2.77	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.37	4.37	< 0.005	< 0.005	< 0.005	4.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.49	0.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	155	155	0.01	< 0.005	—	155
Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.27	0.27	< 0.005	< 0.005	< 0.005	0.29
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.09	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	25.6	25.6	< 0.005	< 0.005	—	25.7
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.34	0.00	0.00	0.34	0.34	0.00	0.08	0.08	—	80.3	80.3	< 0.005	< 0.005	0.01	81.4
Vendor	0.01	< 0.005	0.17	0.07	< 0.005	< 0.005	0.13	0.13	< 0.005	0.03	0.03	—	133	133	0.01	0.02	0.01	139
Hauling	0.06	0.02	1.07	0.41	0.01	0.02	0.75	0.77	0.02	0.19	0.21	—	842	842	0.04	0.14	0.05	884
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	5.10	5.10	< 0.005	< 0.005	0.01	5.17
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	8.39	8.39	< 0.005	< 0.005	0.01	8.78
Hauling	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	53.0	53.0	< 0.005	0.01	0.05	55.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.84	0.84	< 0.005	< 0.005	< 0.005	0.86
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.39	1.39	< 0.005	< 0.005	< 0.005	1.45
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	8.78	8.78	< 0.005	< 0.005	0.01	9.22

3.9. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.83	0.69	5.78	6.48	0.01	0.21	—	0.21	0.20	—	0.20	—	1,163	1,163	0.05	0.01	—	1,167
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.05	1.18	< 0.005	0.04	—	0.04	0.04	—	0.04	—	193	193	0.01	< 0.005	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.33	0.21	3.69	0.00	0.00	3.27	3.27	0.00	0.80	0.80	—	831	831	0.01	0.03	3.30	844
Vendor	0.08	0.03	1.24	0.54	0.01	0.01	0.97	0.99	0.01	0.25	0.26	—	1,012	1,012	0.04	0.15	2.72	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.31	0.30	3.27	0.00	0.00	3.27	3.27	0.00	0.80	0.80	—	771	771	0.02	0.03	0.09	782
Vendor	0.07	0.03	1.31	0.56	0.01	0.01	0.97	0.99	0.01	0.25	0.26	—	1,013	1,013	0.04	0.15	0.07	1,058
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.21	0.20	0.17	2.04	0.00	0.00	2.05	2.05	0.00	0.50	0.50	—	501	501	0.01	0.02	0.92	509
Vendor	0.05	0.02	0.83	0.36	< 0.005	0.01	0.61	0.62	0.01	0.16	0.17	—	654	654	0.03	0.10	0.76	684
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.37	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	83.0	83.0	< 0.005	< 0.005	0.15	84.3
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	108	108	< 0.005	0.02	0.13	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.78	7.99	11.5	0.02	0.18	—	0.18	0.16	—	0.16	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.78	7.99	11.5	0.02	0.18	—	0.18	0.16	—	0.16	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.50	5.16	7.40	0.01	0.11	—	0.11	0.11	—	0.11	—	1,163	1,163	0.05	0.01	—	1,167

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.94	1.35	< 0.005	0.02	—	0.02	0.02	—	0.02	—	193	193	0.01	< 0.005	—	193
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.33	0.21	3.69	0.00	0.00	3.27	3.27	0.00	0.80	0.80	—	831	831	0.01	0.03	3.30	844
Vendor	0.08	0.03	1.24	0.54	0.01	0.01	0.97	0.99	0.01	0.25	0.26	—	1,012	1,012	0.04	0.15	2.72	1,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.31	0.30	3.27	0.00	0.00	3.27	3.27	0.00	0.80	0.80	—	771	771	0.02	0.03	0.09	782
Vendor	0.07	0.03	1.31	0.56	0.01	0.01	0.97	0.99	0.01	0.25	0.26	—	1,013	1,013	0.04	0.15	0.07	1,058
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.21	0.20	0.17	2.04	0.00	0.00	2.05	2.05	0.00	0.50	0.50	—	501	501	0.01	0.02	0.92	509
Vendor	0.05	0.02	0.83	0.36	< 0.005	0.01	0.61	0.62	0.01	0.16	0.17	—	654	654	0.03	0.10	0.76	684
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.37	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	83.0	83.0	< 0.005	< 0.005	0.15	84.3
Vendor	0.01	< 0.005	0.15	0.06	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	108	108	< 0.005	0.02	0.13	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.01	8.57	9.96	0.02	0.29	—	0.29	0.27	—	0.27	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.70	0.82	< 0.005	0.02	—	0.02	0.02	—	0.02	—	148	148	0.01	< 0.005	—	149
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.5	24.5	< 0.005	< 0.005	—	24.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.31	0.28	0.27	3.05	0.00	0.00	3.27	3.27	0.00	0.80	0.80	—	757	757	0.02	0.03	0.08	767
Vendor	0.07	0.03	1.26	0.54	0.01	0.01	0.97	0.99	0.01	0.25	0.26	—	996	996	0.04	0.15	0.07	1,041
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.24	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	62.6	62.6	< 0.005	< 0.005	0.11	63.5
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	81.8	81.8	< 0.005	0.01	0.09	85.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	10.4	10.4	< 0.005	< 0.005	0.02	10.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.02	14.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.74	7.87	11.4	0.02	0.16	—	0.16	0.15	—	0.15	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.07	0.06	0.65	0.94	< 0.005	0.01	—	0.01	0.01	—	0.01	—	148	148	0.01	< 0.005	—	149
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.12	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.5	24.5	< 0.005	< 0.005	—	24.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.28	0.27	3.05	0.00	0.00	3.27	3.27	0.00	0.80	0.80	—	757	757	0.02	0.03	0.08	767
Vendor	0.07	0.03	1.26	0.54	0.01	0.01	0.97	0.99	0.01	0.25	0.26	—	996	996	0.04	0.15	0.07	1,041
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.24	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	62.6	62.6	< 0.005	< 0.005	0.11	63.5
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	81.8	81.8	< 0.005	0.01	0.09	85.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	10.4	10.4	< 0.005	< 0.005	0.02	10.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	13.5	13.5	< 0.005	< 0.005	0.02	14.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	4.41	6.48	0.01	0.18	—	0.18	0.17	—	0.17	—	991	991	0.04	0.01	—	995
Paving	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	0.41	< 0.005	0.01	—	0.01	0.01	—	0.01	—	62.5	62.5	< 0.005	< 0.005	—	62.7
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.3	10.3	< 0.005	< 0.005	—	10.4
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.41	0.00	0.00	0.44	0.44	0.00	0.11	0.11	—	102	102	< 0.005	< 0.005	0.01	104
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	6.50	6.50	< 0.005	< 0.005	0.01	6.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.19	4.63	6.89	0.01	0.06	—	0.06	0.05	—	0.05	—	991	991	0.04	0.01	—	995
Paving	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.29	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	62.5	62.5	< 0.005	< 0.005	—	62.7
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	10.3	10.3	< 0.005	< 0.005	—	10.4
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.41	0.00	0.00	0.44	0.44	0.00	0.11	0.11	—	102	102	< 0.005	< 0.005	0.01	104
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	6.50	6.50	< 0.005	< 0.005	0.01	6.59
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.09

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

3.15. Architectural Coating (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	1.82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.41	8.41	< 0.005	< 0.005	—	8.44
Architect ural Coatings	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.39	1.39	< 0.005	< 0.005	—	1.40

Architect Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.64	0.00	0.00	0.68	0.68	0.00	0.17	0.17	—	158	158	< 0.005	0.01	0.02	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	10.00	10.00	< 0.005	< 0.005	0.02	10.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	1.66	1.66	< 0.005	< 0.005	< 0.005	1.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Architectural Coating (2026) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	1.82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.41	8.41	< 0.005	< 0.005	—	8.44
Architect ural Coatings	—	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.39	1.39	< 0.005	< 0.005	—	1.40
Architect ural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.06	0.64	0.00	0.00	0.68	0.68	0.00	0.17	0.17	—	158	158	< 0.005	0.01	0.02	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	10.00	10.00	< 0.005	< 0.005	0.02	10.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	1.66	1.66	< 0.005	< 0.005	< 0.005	1.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.1.2. Mitigated

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

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

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	6,324	6,324	0.22	0.03	—	6,337
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,324	6,324	0.22	0.03	—	6,337
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	6,324	6,324	0.22	0.03	—	6,337
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,324	6,324	0.22	0.03	—	6,337
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	1,047	1,047	0.04	< 0.005	—	1,049
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,047	1,047	0.04	< 0.005	—	1,049

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	6,324	6,324	0.22	0.03	—	6,337
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,324	6,324	0.22	0.03	—	6,337
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	6,324	6,324	0.22	0.03	—	6,337
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,324	6,324	0.22	0.03	—	6,337
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	1,047	1,047	0.04	< 0.005	—	1,049
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	1,047	1,047	0.04	< 0.005	—	1,049
-------	---	---	---	---	---	---	---	---	---	---	---	---	-------	-------	------	---------	---	-------

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.76	1.62	0.08	9.90	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.7	40.7	< 0.005	< 0.005	—	40.8
Total	1.76	1.64	0.08	9.90	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.7	40.7	< 0.005	< 0.005	—	40.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.15	0.01	0.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.32	3.32	< 0.005	< 0.005	—	3.33
Total	0.16	0.15	0.01	0.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.32	3.32	< 0.005	< 0.005	—	3.33

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.76	1.62	0.08	9.90	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.7	40.7	< 0.005	< 0.005	—	40.8
Total	1.76	1.64	0.08	9.90	< 0.005	0.02	—	0.02	0.01	—	0.01	—	40.7	40.7	< 0.005	< 0.005	—	40.8

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.15	0.01	0.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.32	3.32	< 0.005	< 0.005	—	3.33
Total	0.16	0.15	0.01	0.89	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.32	3.32	< 0.005	< 0.005	—	3.33

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

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

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.26	0.26	< 0.005	< 0.005	—	0.26
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.26	0.26	< 0.005	< 0.005	—	0.26

4.4.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	1.55	1.55	< 0.005	< 0.005	—	1.56
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.26	0.26	< 0.005	< 0.005	—	0.26
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.26	0.26	< 0.005	< 0.005	—	0.26

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
-------	---	---	---	---	---	---	---	---	---	---	---	------	------	------	------	------	---	------

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.6.2. Mitigated

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

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Total	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5

Total	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.84	8.84	< 0.005	< 0.005	0.00	8.87
Total	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.84	8.84	< 0.005	< 0.005	0.00	8.87

4.8.2. Mitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Total	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Total	0.19	0.17	0.47	0.43	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	86.3	86.3	< 0.005	< 0.005	0.00	86.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.84	8.84	< 0.005	< 0.005	0.00	8.87

Total	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.84	8.84	< 0.005	< 0.005	0.00	8.87
-------	------	------	------	------	---------	---------	------	---------	---------	------	---------	------	------	------	---------	---------	------	------

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	11/15/2024	12/17/2024	5.00	23.0	—
Site Preparation	Site Preparation	12/18/2024	1/2/2025	5.00	12.0	—

Grading	Grading	1/3/2025	2/4/2025	5.00	23.0	—
Building Construction	Building Construction	2/5/2025	2/11/2026	5.00	266	—
Paving	Paving	1/10/2026	2/11/2026	5.00	23.0	—
Architectural Coating	Architectural Coating	1/10/2026	2/11/2026	5.00	23.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42

Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backh oes	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 4 Interim	1.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Grading	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Interim	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Interim	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Interim	1.00	6.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Interim	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	1.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	13.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	5.00	8.40	HHDT,MHDT
Demolition	Hauling	30.0	20.0	HHDT
Demolition	Onsite truck	0.83	0.76	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	8.00	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	8.40	HHDT,MHDT
Site Preparation	Hauling	4.00	20.0	HHDT
Site Preparation	Onsite truck	1.00	1.24	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	5.00	8.40	HHDT,MHDT
Grading	Hauling	12.0	20.0	HHDT
Grading	Onsite truck	1.00	0.77	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	96.0	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	38.0	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	13.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	0.00	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	20.0	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	13.0	11.7	LDA,LDT1,LDT2
Demolition	Vendor	5.00	8.40	HHDT,MHDT
Demolition	Hauling	30.0	20.0	HHDT
Demolition	Onsite truck	0.83	0.76	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	8.00	11.7	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	8.40	HHDT,MHDT
Site Preparation	Hauling	4.00	20.0	HHDT
Site Preparation	Onsite truck	1.00	1.24	HHDT

Grading	—	—	—	—
Grading	Worker	10.0	11.7	LDA,LDT1,LDT2
Grading	Vendor	5.00	8.40	HHDT,MHDT
Grading	Hauling	12.0	20.0	HHDT
Grading	Onsite truck	1.00	0.77	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	96.0	11.7	LDA,LDT1,LDT2
Building Construction	Vendor	38.0	8.40	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	0.00	0.00	HHDT
Paving	—	—	—	—
Paving	Worker	13.0	11.7	LDA,LDT1,LDT2
Paving	Vendor	0.00	8.40	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	0.00	0.00	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	20.0	11.7	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	8.40	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Apply dust suppressants to unpaved roads	84%	84%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	8,805	142	0.00

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	6,729	—
Site Preparation	0.00	0.00	11.3	0.00	—
Grading	0.00	2,209	23.0	0.00	—
Paving	0.00	0.00	0.00	0.00	1.29

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Enclosed Parking with Elevator	0.93	100%
Other Non-Asphalt Surfaces	0.36	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	204	0.03	< 0.005
2025	0.00	204	0.03	< 0.005
2026	0.00	204	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,823	203	3,364

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking with Elevator	2,463,424	937	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	937	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
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Enclosed Parking with Elevator	2,463,424	937	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	937	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	122,679
Other Non-Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	122,679
Other Non-Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Emergency Generator	Diesel	1.00	0.50	113	300	0.25

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.10	annual days of extreme heat
Extreme Precipitation	7.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores 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	3.12
AQ-PM	38.6
AQ-DPM	82.2
Drinking Water	4.21
Lead Risk Housing	—
Pesticides	0.00
Toxic Releases	58.1
Traffic	4.80
Effect Indicators	—
CleanUp Sites	58.2
Groundwater	91.3
Haz Waste Facilities/Generators	95.9
Impaired Water Bodies	12.5
Solid Waste	0.00
Sensitive Population	—
Asthma	1.46
Cardio-vascular	14.9
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	—
Housing	—
Linguistic	—
Poverty	4.02

Unemployment	—
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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	99.9
Asthma ER Admissions	97.2
High Blood Pressure	99.9
Cancer (excluding skin)	99.8
Asthma	83.3
Coronary Heart Disease	100.0
Chronic Obstructive Pulmonary Disease	100.0
Diagnosed Diabetes	100.0
Life Expectancy at Birth	0.0
Cognitively Disabled	99.2
Physically Disabled	97.3
Heart Attack ER Admissions	98.6
Mental Health Not Good	95.0
Chronic Kidney Disease	99.9
Obesity	100.0
Pedestrian Injuries	0.0
Physical Health Not Good	100.0
Stroke	100.0
Health Risk Behaviors	—
Binge Drinking	0.4
Current Smoker	97.7

No Leisure Time for Physical Activity	99.9
Climate Change Exposures	—
Wildfire Risk	99.8
SLR Inundation Area	0.0
Children	98.2
Elderly	99.8
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	77.4
Traffic Density	0.0
Traffic Access	87.4
Other Indices	—
Hardship	0.0
Other Decision Support	—
2016 Voting	0.0

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 Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Trips and VMT	See model assumptions appendix
Land Use	Project Description
Construction: Construction Phases	See model assumptions file
Construction: Dust From Material Movement	See model assumptions appendix
Construction: On-Road Fugitive Dust	BAAQMD Guidelines, onsite activity will mostly be contained to paved areas
Construction: Architectural Coatings	Calculation corrections per CalEEMod Userguide
Characteristics: Utility Information	UCB Cogeneration Plant data
Operations: Energy Use	Accounts for EV charging stations

UCB-01.5 Bancroft Parking Garage (Existing) Detailed Report

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5.12.2. Mitigated

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5.14. Operational Refrigeration and Air Conditioning Equipment

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5.14.2. Mitigated

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5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

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5.18.2.1. Unmitigated

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	UCB-01.5 Bancroft Parking Garage (Existing)
Operational Year	2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.90
Precipitation (days)	44.2
Location	37.86962811236809, -122.25588285857044
County	Alameda
City	Berkeley
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	1585
EDFZ	1
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.21

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Enclosed Parking Structure	38.4	1000sqft	0.88	38,400	0.00	0.00	—	—

Other Asphalt Surfaces	15.4	1000sqft	0.35	0.00	0.00	0.00	—	—
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1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.30	0.28	0.01	1.67	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	352	352	0.01	< 0.005	0.00	353
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	345	345	0.01	< 0.005	0.00	346
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.15	0.15	0.01	0.82	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	349	349	0.01	< 0.005	0.00	349
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.03	0.03	< 0.005	0.15	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	57.7	57.7	< 0.005	< 0.005	0.00	57.8

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.30	0.28	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.87	6.87	< 0.005	< 0.005	—	6.89
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	345	345	0.01	< 0.005	—	346
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.30	0.28	0.01	1.67	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	352	352	0.01	< 0.005	0.00	353
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	345	345	0.01	< 0.005	—	346
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	345	345	0.01	< 0.005	0.00	346
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.15	0.15	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.39	3.39	< 0.005	< 0.005	—	3.40
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	345	345	0.01	< 0.005	—	346
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.15	0.15	0.01	0.82	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	349	349	0.01	< 0.005	0.00	349
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.03	0.03	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.56	0.56	< 0.005	< 0.005	—	0.56
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	57.1	57.1	< 0.005	< 0.005	—	57.3
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.03	0.03	< 0.005	0.15	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	57.7	57.7	< 0.005	< 0.005	0.00	57.8

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.30	0.28	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.87	6.87	< 0.005	< 0.005	—	6.89
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	345	345	0.01	< 0.005	—	346
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.30	0.28	0.01	1.67	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	352	352	0.01	< 0.005	0.00	353
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	345	345	0.01	< 0.005	—	346
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	345	345	0.01	< 0.005	0.00	346

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.15	0.15	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.39	3.39	< 0.005	< 0.005	—	3.40
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	345	345	0.01	< 0.005	—	346
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.15	0.15	0.01	0.82	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	349	349	0.01	< 0.005	0.00	349
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.03	0.03	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.56	0.56	< 0.005	< 0.005	—	0.56
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	57.1	57.1	< 0.005	< 0.005	—	57.3
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.03	0.03	< 0.005	0.15	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	57.7	57.7	< 0.005	< 0.005	0.00	57.8

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.1.2. Mitigated

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

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

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

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

Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	345	345	0.01	< 0.005	—	346
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	345	345	0.01	< 0.005	—	346
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	345	345	0.01	< 0.005	—	346
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	345	345	0.01	< 0.005	—	346
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	57.1	57.1	< 0.005	< 0.005	—	57.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	57.1	57.1	< 0.005	< 0.005	—	57.3

4.2.2. Electricity Emissions By Land Use - Mitigated

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

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

Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	345	345	0.01	< 0.005	—	346
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	345	345	0.01	< 0.005	—	346
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	345	345	0.01	< 0.005	—	346
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	345	345	0.01	< 0.005	—	346
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	57.1	57.1	< 0.005	< 0.005	—	57.3
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	57.1	57.1	< 0.005	< 0.005	—	57.3

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.30	0.27	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.87	6.87	< 0.005	< 0.005	—	6.89
Total	0.30	0.28	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.87	6.87	< 0.005	< 0.005	—	6.89
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.03	0.02	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.56	0.56	< 0.005	< 0.005	—	0.56
Total	0.03	0.03	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.56	0.56	< 0.005	< 0.005	—	0.56

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.30	0.27	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.87	6.87	< 0.005	< 0.005	—	6.89
Total	0.30	0.28	0.01	1.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.87	6.87	< 0.005	< 0.005	—	6.89
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Landsca Equipment	0.03	0.02	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.56	0.56	< 0.005	< 0.005	—	0.56
Total	0.03	0.03	< 0.005	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.56	0.56	< 0.005	< 0.005	—	0.56

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
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Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

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

4.6.2. Mitigated

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

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

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,728	192	3,230

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking Structure	134,455	937	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	937	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking Structure	134,455	937	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	937	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking Structure	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking Structure	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking Structure	0.00	—
Other Asphalt Surfaces	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking Structure	0.00	—

Other Asphalt Surfaces	0.00	—
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5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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

5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

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

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

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

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	7.10	annual days of extreme heat
Extreme Precipitation	7.50	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores 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	3.12
AQ-PM	38.6
AQ-DPM	82.2
Drinking Water	4.21
Lead Risk Housing	—
Pesticides	0.00
Toxic Releases	58.1
Traffic	4.80
Effect Indicators	—
CleanUp Sites	58.2
Groundwater	91.3
Haz Waste Facilities/Generators	95.9
Impaired Water Bodies	12.5
Solid Waste	0.00
Sensitive Population	—
Asthma	1.46
Cardio-vascular	14.9
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	—
Housing	—
Linguistic	—
Poverty	4.02

Unemployment	—
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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	99.9
Asthma ER Admissions	97.2
High Blood Pressure	99.9
Cancer (excluding skin)	99.8
Asthma	83.3
Coronary Heart Disease	100.0
Chronic Obstructive Pulmonary Disease	100.0
Diagnosed Diabetes	100.0
Life Expectancy at Birth	0.0
Cognitively Disabled	99.2
Physically Disabled	97.3
Heart Attack ER Admissions	98.6
Mental Health Not Good	95.0
Chronic Kidney Disease	99.9
Obesity	100.0
Pedestrian Injuries	0.0
Physical Health Not Good	100.0
Stroke	100.0
Health Risk Behaviors	—
Binge Drinking	0.4
Current Smoker	97.7

No Leisure Time for Physical Activity	99.9
Climate Change Exposures	—
Wildfire Risk	99.8
SLR Inundation Area	0.0
Children	98.2
Elderly	99.8
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	77.4
Traffic Density	0.0
Traffic Access	87.4
Other Indices	—
Hardship	0.0
Other Decision Support	—
2016 Voting	0.0

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 Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Trips and VMT	See model assumptions appendix
Land Use	Existing parking structure and rooftop tennis courts
Construction: Construction Phases	See model assumptions file
Construction: Dust From Material Movement	See model assumptions appendix
Construction: On-Road Fugitive Dust	BAAQMD Guidelines, onsite activity will mostly be contained to paved areas
Construction: Architectural Coatings	6% factor for parking
Characteristics: Utility Information	UCB Cogeneration Plant data
Operations: Energy Use	Accounts for EV charging stations
Operations: Water and Waste Water	"Special Landscaping" area represents turf playing surface for rooftop tennis courts

1. Health Risk Assessment

1.1 CONSTRUCTION HEALTH RISK ASSESSMENT

The proposed project, located at 2651 Bancroft Way, Berkeley, would involve the demolition of an existing 38,500-square foot parking garage with rooftop tennis courts and the construction of a new 8-story, 227,528-square foot parking garage with an estimated 15,552 square feet of hardscape and 10,798 square feet of landscaping. The project would be on an approximately 1.26-acre site. According to the project applicant, construction would occur from November 2024 to February 2026.

The latest version of the Bay Area Air Quality Management District (BAAQMD) CEQA Air Quality Guidelines recommends projects to evaluate the impacts of construction activities on nearby receptors (BAAQMD 2023). The nearest receptors, their receptor types, and their proximity and orientation to the project site include the following:

- Workers & college students: Hearst Gym approximately 50 feet to the west.
- Workers & college students: Anthropology Library approximately 25 feet to the east and north.
- Workers & college students: Jean Gray Hargrove Music Library approximately 150 feet to the north.
- Workers: Bakar BioEnginuity Hub & Bakar Labs approximately 80 feet to the south.
- Workers: Bancroft Hotel approximately 100 feet to the south.
- Residents: Apartments approximately 190 feet to the south.

Because receptors, including sensitive receptors such as residents, are present in land uses adjacent to the project site, a site-specific construction health risk assessment (HRA) has been prepared for the proposed project. This HRA considers the health impact to nearby receptors (e.g., residents, workers, students) from construction emissions at the project site, including diesel equipment exhaust (diesel particulate matter or DPM) and particulate matter less than 2.5 microns ($PM_{2.5}$).

It should be noted that these health impacts are based on conservative (i.e., health protective) assumptions. The United States Environmental Protection Agency (USEPA 2005) and the Office of Environmental Health Hazard Assessment (OEHHA 2015) note that conservative assumptions used in a risk assessment are intended to ensure that the estimated risks do not underestimate the actual risks. Therefore, the estimated risks may not necessarily represent actual risks experienced by populations at or near a site. The use of conservative assumptions tends to produce upper-bound estimates of exposure and thus risk.

For residential receptors, the following conservative assumptions were used:

- It was assumed that maximum-exposed off-site residential receptors (both children and adults) stood outdoors and are subject to DPM at their residence for 8 hours per day, 350 days per year. In reality,

California residents typically will spend on average 2 hours per day outdoors at their residences (USEPA 2011). This would result in lower exposures to construction related DPM emissions and lower estimated risk values.

- The calculated risk for infants from third trimester to age 2 is multiplied by a factor of 10 to account for early life exposure and uncertainty in child versus adult exposure impacts (OEHHA 2015).

For college students and workers, the following conservative assumptions were used:

- It was assumed that maximum exposed receptors stood outside and are subject to DPM for 8 hours per weekday and 250 days per year.

1.2 METHODOLOGY AND SIGNIFICANCE THRESHOLDS

For this HRA, the BAAQMD significance thresholds were determined appropriate for the project and are shown below:

- Excess cancer risk of more than 10 in a million
- Non-cancer hazard index (chronic or acute) greater than 1.0
- Incremental increase in average annual PM_{2.5} concentration of greater than 0.3 µg/m³

The methodology used in this HRA is consistent with the following BAAQMD and the OEHHA guidance documents:

- BAAQMD. 2023. *California Environmental Quality Act (CEQA) Air Quality Guidelines*. April 2023.
- BAAQMD. 2016. *Planning Healthy Places*. May 2016.
- OEHHA. 2015. *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments*. February 2015.

Potential exposures to DPM and PM_{2.5} from proposed project construction were evaluated for nearby receptors to the site. Pollutant concentrations were estimated using an air dispersion model, and excess lifetime cancer risks and chronic non-cancer hazard indexes were calculated. These risks were then compared to the significance thresholds used for this HRA.

1.3 CONSTRUCTION EMISSIONS

Construction emissions were calculated as average daily emissions in pounds per day, using the proposed construction schedule and the latest version of California Emissions Estimation Model, known as CalEEMod Version 2022.1. DPM emissions were based on the CalEEMod construction results, using maximum daily exhaust PM₁₀ emissions. The PM_{2.5} emissions were taken from the CalEEMod output for maximum daily PM_{2.5} exhaust and fugitive dust.

The proposed project was assumed to take place over 15 months (324 workdays) from November 2024 to February 2026. The average daily emission rates from construction equipment used during the proposed project were determined by multiplying the maximum daily emissions for each construction activity by the duration of that activity, summing the total emissions from all construction activities, and dividing the

summed total by the total construction workdays (324 days). The CalEEMod construction emissions output and emission rate calculations are provided in Appendix A.

1.4 DISPERSION MODELING

Air quality modeling was performed using the AERMOD atmospheric dispersion model to assess the impact of emitted compounds on sensitive receptors near the project. The model is a steady state Gaussian plume model and is an approved model by BAAQMD for estimating ground level impacts from point and fugitive sources in simple and complex terrain. The on-site construction emissions for the project were modeled as poly-area sources. The off-site mobile sources were modeled as line sources. The model requires additional input parameters, including chemical emission data and local meteorology. Inputs for the construction emission rates are those described in Section 1.3. Meteorological data obtained from the BAAQMD for the nearest representative meteorological station (Oakland International Airport) with the five latest available years (2013 to 2017) of record were used to represent local weather conditions and prevailing winds.

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. To accommodate the model's Cartesian grid format, direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. In addition, digital elevation model (DEM) data for the area were obtained and included in the model runs to account for complex terrain. An emission release height of 4.15 m was used as representative of the stack exhaust height for off-road construction equipment and diesel truck traffic, and an initial vertical dispersion parameter of 1.93 m was used, per California Air Resources Board (CARB) guidance (2000). For fugitive dust sources, an emission release height of 0 m was used to represent dust generated by ground disturbing activities and roadway dust re-entrainment.

To determine contaminant impacts during construction hours, the model's Season-Hour-Day (HRDOW) scalar option was invoked to predict flagpole-level concentrations (1.5 m) for construction emissions generated between the hours of 7:00 AM and 4:00 PM with a 1-hour lunch break.

A unit emission rate of 1 gram per second was used for all modeling runs. The unit emission rates were proportioned over the poly-area sources for on-site construction emissions and divided between the line volume sources for off-site hauling emissions. The maximum modeled concentrations from the output files were then multiplied by the emission rates to obtain the maximum flagpole-level concentrations at the maximum exposed receptor (MER) for each receptor type. The air dispersion modeling predicted the MER for each receptor type near the project site are residential receptors approximately 280 feet southeast of the project site along College Avenue, and worker-student receptors adjacent to the project site at the Hearst Museum of Anthropology.

The MER locations are the receptor locations associated with the maximum predicted AERMOD concentrations resulting from the on-site construction emissions. The calculated on-site emission rates are approximately 3 to 4 orders of magnitude higher than the calculated off-site emission rates. Therefore, the maximum concentrations associated with the on-site emission sources produce the highest overall MER concentrations and, consequently, highest calculated health risks.

The air dispersion model outputs are provided in Appendix A with this HRA.

1.5 RISK CHARACTERIZATION

1.5.1 Carcinogenic Chemical Risk

A threshold of ten in one million (10×10^{-6}) has been established by OEHHA and recommended by BAAQMD and other air districts as a level posing no significant risk for exposures to carcinogens. Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. The cancer risk probability is determined by multiplying the chemical's annual concentration by its cancer potency factor (CPF), a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It is an upper-limit estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu\text{g}/\text{m}^3$) over a lifetime of 30 years.

Guidance from OEHHA recommends a refinement to the standard point estimate approach with the use of age-specific breathing rates and age sensitivity factors (ASFs) to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose for each age group. Once determined, contaminant dose is multiplied by the cancer potency factor in units of inverse dose expressed in milligrams per kilogram per day ($\text{mg}/\text{kg}/\text{day}$)⁻¹ to derive the cancer risk estimate. Therefore, to accommodate the unique exposures associated with the sensitive receptors, the following dose algorithm was used.

$$\text{Dose}_{\text{AIR, per age group}} = (C_{\text{air}} \times \text{EF} \times [\frac{\text{BR}}{\text{BW}}] \times A \times \text{CF})$$

Where:

Dose_{AIR}	=	dose by inhalation ($\text{mg}/\text{kg}/\text{day}$), per age group
C_{air}	=	concentration of contaminant in air ($\mu\text{g}/\text{m}^3$)
EF	=	exposure frequency (number of days/365 days)
BR/BW	=	daily breathing rate normalized to body weight ($\text{L}/\text{kg}/\text{day}$)
A	=	inhalation absorption factor (default = 1)
CF	=	conversion factor (1×10^{-6} , μg to mg , L to m^3)

The inhalation absorption factor (A) is a unitless factor that is only used if the cancer potency factor included a correction for absorption across the lung. The default value of 1 was used for this assessment. An exposure frequency (EF) of 0.96 is used for residential receptors to represent 350 days per year to allow for a two-week period away from home each year, and an EF of 0.68 was used for worker and college student receptors to represent 250 workdays and potential school days per year (OEHHA 2015). A fraction of time at home (FAH) factor applied to residential receptors. The 95th percentile daily breathing rates (BR/BW), exposure duration (ED), age sensitivity factors (ASFs), and FAH for the various age groups are provided herein:

Residential Receptors

<u>Age Groups</u>	<u>BR/BW ($\text{L}/\text{kg}/\text{day}$)</u>	<u>ED</u>	<u>ASF</u>	<u>FAH</u>
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Third trimester	361	0.25	10	0.85
0-2 age group	1,090	1.01	10	0.85

Worker and College Student Receptors

<u>Age Groups</u>	<u>BR/BW (L/kg-day)</u>	<u>ED</u>	<u>ASF</u>	<u>FAH</u>
16-30 age group	240	1.26	1	-

To represent the unique characteristics of children and senior residents, the assessment employed the USEPA's guidance to develop viable dose estimates based on reasonable maximum exposure, defined as the "highest exposure that is reasonably expected to occur" for a given receptor population. To calculate the overall cancer risk, the risk for each appropriate age group is calculated per the following equation:

$$\text{Cancer Risk}_{\text{AIR}} = \text{Dose}_{\text{AIR}} \times \text{CPF} \times \text{ASF} \times \text{FAH} \times \frac{\text{ED}}{\text{AT}}$$

Where:

Dose _{AIR}	=	dose by inhalation (mg/kg-day), per age group
CPF	=	cancer potency factor, chemical-specific (mg/kg-day) ⁻¹
ASF	=	age sensitivity factor, per age group
FAH	=	fraction of time at home, per age group (for residential receptors only)
ED	=	exposure duration (years)
AT	=	averaging time period over which exposure duration is averaged (30 years)

The CPFs used in the assessment were obtained from OEHHA guidance. The excess lifetime cancer risks during the construction period to the maximally exposed resident were calculated based on the factors provided above. The cancer risks for each age group are summed to estimate the total cancer risk for each toxic chemical species. The final step converts the cancer risk in scientific notation to a whole number that expresses the cancer risk in "chances per million" by multiplying the cancer risk by a factor of 1x10⁶ (i.e., 1 million). The calculated results are provided in Appendix A with this HRA.

1.5.2 Non-Carcinogenic Hazards

An evaluation was also conducted of the potential non-cancer effects of chronic chemical exposures. Adverse health effects are evaluated by comparing the annual receptor level (flagpole) concentration of each chemical compound with the appropriate reference exposure limit (REL). Available RELs promulgated by OEHHA were considered in the assessment.

The hazard index approach was used to quantify non-carcinogenic impacts. The hazard index assumes that chronic sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). Target organs presented in regulatory guidance were used for each discrete chemical exposure. To calculate the hazard index, each chemical concentration or dose is divided by the appropriate toxicity value. This ratio

is summed for compounds affecting the same toxicological endpoint. A health hazard is presumed to exist where the total equals or exceeds one.

The chronic hazard analysis for DPM is provided in Appendix A with this HRA. The calculations contain the relevant exposure concentrations and corresponding reference dose values used in the evaluation of non-carcinogenic exposures.

1.6 CONSTRUCTION HRA RESULTS

The calculated results are summarized in Table 1.

TABLE 1. CONSTRUCTION RISK SUMMARY - UNMITIGATED

Receptor	Cancer Risk (per million)	Chronic Hazards	PM _{2.5} (µg/m ³)
MER – Resident	16	<0.1	0.07
MER – College Student / Worker	<1	<0.1	0.26
BAAQMD Threshold	10	1.0	0.30
Exceeds Threshold?	Yes	No	No

Note: Cancer risk calculated using 2015 OEHHA HRA Guidance Manual.

Cancer risk for the residential MER from project-related construction emissions was calculated to be 16 in one million and the worker and college student MER to be approximately 1 in one million. As shown, impacts to the worker and college student MER would be below the 10 in one million significance threshold; however, the residential MER would experience a cancer risk which exceeds BAAQMD's significance threshold of 10 in one million. Therefore, cancer risks experienced by nearby receptors would be within acceptable limits.

For non-carcinogenic effects, the chronic hazard index identified for each toxicological endpoint equaled less than one for each identified receptor. Therefore, chronic non-carcinogenic hazards are within acceptable limits. For the maximum annual PM_{2.5} concentration, none of the identified receptors experienced a concentration of 0.30 µg/m³ or greater. As such, no health risk thresholds were exceeded for nearby receptors, and impacts would be less than significant.

Because cancer risk for the residential MER would exceed the BAAQMD significance threshold during project construction, Mitigation Measure AQ-1 is included to ensure that off-road equipment used during project construction greater than 50 horsepower meets Tier 4 Interim emissions standards. Mitigated results for the Residential MER are contained in Table 2.

Mitigation Measure AQ-1: The construction contractor shall use equipment that meets the United States Environmental Protection Agency Tier 4 Final emissions standards or higher for off-road diesel-powered construction equipment with more than 50 horsepower, unless it can be demonstrated to UC Berkeley that such equipment is not commercially available. For purposes of this mitigation measure, “commercially available” shall mean the availability of Tier 4 Final engines similar to the availability for other large-scale construction projects in the city occurring at the same time and taking into consideration factors such as (i) potential significant delays to critical-path timing of construction and (ii) geographic proximity to the project site of Tier 4 Final equipment. Where such equipment is not commercially available, as demonstrated by the construction contractor, Tier 4 interim equipment shall be used. Where Tier 4 interim equipment is not commercially available, as demonstrated by the contractor, Tier 3 equipment retrofitted with a California Air Resources Board's Level 3 Verified Diesel Emissions Control Strategy (VDECS) shall be used. The requirement to use

Tier 4 interim Final equipment or higher for engines over 50 horsepower shall be identified in construction bids, and the following shall also be completed:

- Prior to construction, the project engineer shall ensure that all demolition and grading plans clearly show the requirement for United States Environmental Protection Agency Tier 4 Final or higher emissions standards for construction equipment over 50 horsepower.
- During construction, the construction contractor shall maintain a list of all operating equipment in use over 20 hours on the construction site for verification by UC Berkeley.
- The construction equipment list shall state the makes, models, and numbers of construction equipment on-site.
- To the extent that equipment is available and cost-effective, contractors shall use electric, hybrid, or alternate-fueled off-road construction equipment.
- Contractors shall use electric construction tools, such as saws, drills, and compressors, where grid electricity is available.
- Construction activities shall be prohibited when the Air Quality Index (AQI), as measured by the closest Bay Area Air Quality Management District monitoring station (e.g., Berkeley Aquatic Center), is greater than 150 for particulates and ozone in the project area.
- Contractors shall provide information on transit and ridesharing programs and services to construction employees. Additionally, meal options on-site and/or shuttles between the facility and nearby meal destinations for construction employees shall be provided.

Mitigation Measure AQ-1 would reduce the proposed project's localized construction emissions and subsequent exposure to nearby receptors, as shown in Table 2. The results indicate that, with mitigation, cancer risk would be less than the BAAQMD's significance thresholds at all analyzed receptors. Therefore, the proposed project would not expose nearby receptors to substantial concentrations of air pollutant emissions during construction, and this impact would be *less than significant* with mitigation.

TABLE 2. CONSTRUCTION RISK SUMMARY - MITIGATED

Receptor	Cancer Risk (per million)	Chronic Hazards	PM _{2.5} (µg/m ³)
MER – Resident	6	<0.1	0.04
MER – College Student / Worker	<1	<0.1	0.17
BAAQMD Threshold	10	1.0	0.30
Exceeds Threshold?	No	No	No

Note: Cancer risk calculated using 2015 OEHHA HRA Guidance Manual.

Risks incorporate Mitigation Measure AQ-2, which includes using construction equipment that meets USEPA Tier 4 Interim engine requirements for equipment over 50 horsepower.

1.7 CUMULATIVE COMMUNITY HEALTH RISK

In addition to a project-level HRA, BAAQMD recommends assessing the potential cumulative impacts from sources of TACs within 1,000 feet of a project. For the cumulative analysis, BAAQMD maintains several tools and databases for identifying risks at a particular location. The existing TACs that BAAQMD recommends including in a cumulative analysis include permitted stationary sources, marine sources, roadway sources, rail sources, and highway sources. Risks from permitted stationary sources within 1,000 feet of the project site can be identified using BAAQMD's *Stationary Source Screening Map* (BAAQMD 2024). Risks from roadway sources are released periodically from the BAAQMD in the form of risk assessment screening tools (RAST), which were utilized in determining associated risks at the residential MER during project construction. The residential MER was utilized in the cumulative community risk assessment as it represents the greatest impact to nearby receptors during project construction. No marine or rail risks are shown in the cumulative HRA as no marine or rail activities occur within 1,000 feet of the project site.

Table 3 summarizes the existing TAC source risks at the residential MER from mitigated project construction emissions in combination with existing TAC sources within 1,000 feet of the project site. As shown therein, the proposed project's mitigated construction emissions combined with existing TAC emissions within 1,000 feet do not exceed the BAAQMD's cumulative community health risk significance thresholds at the residential MER location, and this impact would be *less than significant* with mitigation.

TABLE 3. CUMULATIVE COMMUNITY RISK SUMMARY

Source	Source Type	Distance to MER ¹	Cancer Risk (per million)	Chronic Hazards	PM _{2.5} (µg/m ³)
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TABLE 3. CUMULATIVE COMMUNITY RISK SUMMARY

Project Impacts					
Mitigated Project Construction	Diesel Construction Equipment	280	6	<0.1	0.04
Permitted Stationary Source Impacts					
2580 Bancroft Way (Facility ID 8973)	Generator	750	<1	<0.1	<0.01
Berkeley Campus (Facility ID 9686)	Generator	1,115	<1	<0.1	<0.01
Berkeley Campus (Facility ID 9690)	Generator	1,365	<1	<0.1	<0.01
Berkeley Campus (Facility ID 9690)	Generator	175	1	<0.1	<0.01
Berkeley Campus (Facility ID 9690)	Generator	520	<1	<0.1	<0.01
Berkeley Campus (Facility ID 9690)	Generator	1,115	<1	<0.1	<0.01
Berkeley Campus (Facility ID 9690)	Generator	625	<1	<0.1	<0.01
Roadway Impacts					
BAAQMD-provided roadway values ²		-	22	0.1	0.25
Rail Impacts					
BAAQMD-provided rail values ²		>1,000	-	-	-
Cumulative Health Impacts					
Cumulative Project Health Impacts			29	0.1	0.29
BAAQMD Threshold			100	10.0	0.80
Exceeds Threshold?			No	No	No

Notes: ND = No Data

¹ The residential MER is identified as a residence approximately 280 feet south of the project site, UTM coordinates: 565550.13 E, 4191514.14 N.² BAAQMD-provided values correspond with risks experienced at the residential MER coordinates.

2. References

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United States Environmental Protection Agency (USEPA). 2005. *Guideline on Air Quality Models* (Revised). EPA-450/2-78-027R.

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Annual DPM & PM_{2.5} Total Concentrations: Residential Receptors

Contaminant (a)	Source (b)		Model Output ¹ (µg/m ³) (c)	Emission Rates ²		MER Conc. (µg/m ³) (e)	Total MER Conc. Annual Average (µg/m ³) (f)
				(lbs/day)	(gram/second) (d)		
Residential Receptor - Unmitigated							
DPM (PM ₁₀ Exhaust)		On-Site Emissions	7.32	0.40	6.26E-03	4.58E-02	4.58E-02
		Truck Route	6.07	0.00	4.04E-06	2.45E-05	
			Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations				
PM _{2,5} Exhaust		On-Site Emissions	7.32	0.37	5.76E-03	4.21E-02	4.22E-02
		Truck Route	6.07	0.00	4.04E-06	2.45E-05	
PM _{2,5} Dust		On-Site Emissions	7.61	0.19	2.98E-03	2.27E-02	2.44E-02
		Truck Route	6.95	0.02	2.41E-04	1.68E-03	
			Average Annual PM _{2,5} Concentration 0.07				
Residential Receptor - Mitigated							
DPM (PM ₁₀ Exhaust)		On-Site Emissions	7.32	0.16	2.51E-03	1.84E-02	1.84E-02
		Truck Route	6.07	0.00	4.04E-06	2.45E-05	
			Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations				
PM _{2,5} Exhaust		On-Site Emissions	7.32	0.15	2.35E-03	1.72E-02	1.72E-02
		Truck Route	6.07	0.00	4.04E-06	2.45E-05	
PM _{2,5} Dust		On-Site Emissions	7.61	0.19	2.98E-03	2.27E-02	2.44E-02
		Truck Route	6.95	0.02	2.41E-04	1.68E-03	
			Average Annual PM _{2,5} Concentration 0.04				

DPM Maximum Exposed Receptor (MER) UTM coordinates: 565550.13 E, 4191514.14 N (Receptor ID R_005).

Fugitive Dust MER UTM coordinates: 565550.13 E, 4191514.14 N (Receptor ID R_005).

¹ Model Output at the MER based on unit emission rates for sources (1 g/s).

² Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions). Conversion from lbs/day to grams/second utilizes 453.592 grams/lb and 28,800 seconds per 8-hour workday.

Contaminant (a)	Source (b)	Model Output ¹ ($\mu\text{g}/\text{m}^3$) (c)	Emission Rates ²		MER Conc. ($\mu\text{g}/\text{m}^3$) (e)	Total MER Conc. Annual Average ($\mu\text{g}/\text{m}^3$) (f)
			(lbs/day)	(gram/second)		

Annual DPM & PM_{2.5} Total Concentrations: Worker & College Student Receptors

Contaminant (a)	Source (b)	Model Output ¹ (µg/m ³) (c)	Emission Rates ²		MER Conc. (µg/m ³) (e)	Total MER Conc. Annual Average (µg/m ³) (f)
			(lbs/day)	(gram/second) (d)		
Worker & College Student Receptor - Unmitigated						
DPM (PM ₁₀ Exhaust)		On-Site Emissions	26.31	0.40	6.26E-03	1.65E-01
		Truck Route	18.12	0.00	4.04E-06	
			Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations			
PM _{2.5} Exhaust		On-Site Emissions	26.31	0.37	5.76E-03	1.52E-01
		Truck Route	18.12	0.00	4.04E-06	
PM _{2.5} Dust		On-Site Emissions	33.46	0.19	2.98E-03	1.08E-01
		Truck Route	33.89	0.02	2.41E-04	
			Average Annual PM _{2.5} Concentration 0.26			
Worker & College Student Receptor - Mitigated						
DPM (PM ₁₀ Exhaust)		On-Site Emissions	26.31	0.16	2.51E-03	6.62E-02
		Truck Route	18.12	0.00	4.04E-06	
			Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations			
PM _{2.5} Exhaust		On-Site Emissions	26.31	0.15	2.35E-03	6.18E-02
		Truck Route	18.12	0.00	4.04E-06	
PM _{2.5} Dust		On-Site Emissions	33.46	0.19	2.98E-03	1.08E-01
		Truck Route	33.89	0.02	2.41E-04	
			Average Annual PM _{2.5} Concentration 0.17			

Maximum Exposed Receptor (MER) UTM coordinates: 565508.66 E, 4191555.01 N (Receptor ID WCS_047).

Fugitive Dust MER UTM coordinates: 565508.66 E, 4191555.01 N (Receptor ID WCS_047).

Notes:

¹ Model Output at the MER based on unit emission rates for sources (1 g/s).

² Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions). Conversion from lbs/day to grams/second utilizes 453.592 grams/lb and 28,800 seconds per 8-hour workday.

Contaminant (a)	Source (b)	Model Output ¹ (µg/m ³) (c)	Emission Rates ²		MER Conc. (µg/m ³) (e)	Total MER Conc. Annual Average (µg/m ³) (f)
			(lbs/day)	(gram/second)		
			(d)			

Annual DPM & PM_{2.5} Total Concentrations: High School Student Receptors

Contaminant (a)	Source (b)		Model Output ¹ (µg/m ³) (c)	Emission Rates ²		MER Conc. (µg/m ³) (e)	Total MER Conc. Annual Average (µg/m ³) (f)
				(lbs/day)	(gram/second) (d)		
High School Receptor - Unmitigated							
DPM (PM ₁₀ Exhaust)		On-Site Emissions	0.32	0.40	6.26E-03	1.99E-03	2.00E-03
		Truck Route	0.47	0.00	4.04E-06	1.91E-06	
				Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations			
PM _{2,5} Exhaust		On-Site Emissions	0.32	0.37	5.76E-03	1.83E-03	1.84E-03
		Truck Route	0.47	0.00	4.04E-06	1.91E-06	
PM _{2,5} Dust		On-Site Emissions	0.32	0.19	2.98E-03	9.63E-04	1.08E-03
		Truck Route	0.48	0.02	2.41E-04	1.15E-04	
			Average Annual PM _{2,5} Concentration				0.00
High School Receptor - Mitigated							
DPM (PM ₁₀ Exhaust)		On-Site Emissions	0.32	0.16	2.51E-03	8.01E-04	8.03E-04
		Truck Route	0.47	0.00	4.04E-06	1.91E-06	
				Total DPM concentrations used for Cancer Risk and Chronic Hazard calculations			
PM _{2,5} Exhaust		On-Site Emissions	0.32	0.15	2.35E-03	7.47E-04	7.49E-04
		Truck Route	0.47	0.00	4.04E-06	1.91E-06	
PM _{2,5} Dust		On-Site Emissions	0.32	0.19	2.98E-03	9.63E-04	1.08E-03
		Truck Route	0.48	0.02	2.41E-04	1.15E-04	
			Average Annual PM _{2,5} Concentration				0.00

Maximum Exposed Receptor (MER) UTM coordinates: 565338.13 E, 4191313.1 N (Receptor ID HS_006).

Fugitive Dust MER UTM coordinates: 565358.13 E, 4191313.1 N (Receptor ID HS_010).

Notes:

¹ Model Output at the MER based on unit emission rates for sources (1 g/s).

² Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions). Conversion from lbs/day to grams/second utilizes 453.592 grams/lb and 28,800 seconds per 8-hour workday.

Construction Health Risk Assessment Calculations

Receptor Group

R

WCS

HS

Description

Residence (Start Age: 3rd Trimester)

Worker / College Student (Start Age: 16 Years)

High School Student (Start Age: 14 Years)

Cancer Risk Calculation Equations (OEHA 2015):

A. Equation 5.4.1.1: $\text{Dose-air} = C_{\text{air}} \times \{BR/BW\} \times A \times EF \times 10^{-6}$

1. Dose-air = Dose through inhalation (mg/kg/d)
2. C_{air} = Concentration in air ($\mu\text{g}/\text{m}^3$)
3. $\{BR/BW\}$ = Daily Breathing rate normalized to body weight (L/kg body weight - day)
4. A = Inhalation absorption factor (unitless)
5. EF = Exposure frequency (unitless), days/365 days
6. 10^{-6} = Micrograms to milligrams conversion, liters to cubic meters conversion

Factors	Dose (Dose-air) Factors by Age Bin			
	3rd Trimester	Age: 0<2	Age: 2<16	Age: 16<30
C-air =	Results of AERMOD modeling			
DBR =	361	1090	520	240
A =	1	1	1	1
EF (R) =	0.96	0.96	0.96	0.96
EF (HS) =	0.49	0.49	0.49	0.49
EF (WCS) =	0.68	0.68	0.68	0.68
10^{-6} =	0.000001	0.000001	0.000001	0.000001

A. Equation 8.2.4 A: $\text{RISK}_{\text{inh-res}} = \text{DOSE}_{\text{air}} \times \text{CPF} \times \text{ASF} \times \text{ED}/\text{AT} \times \text{FAH}$

7. $\text{RISK}_{\text{inh-res}}$ = Residential inhalation cancer risk
8. DOSE_{air} = Daily inhalation dose (mg/kg-day)
9. CPF = Inhalation cancer potency factor ($\text{mg}/\text{kg-day}^{-1}$)
10. ASF = Age sensitivity factor for a specified age group (unitless)
11. ED = Exposure duration (in years) for a specified age group
12. AT = Averaging time for lifetime cancer risk (years)
13. FAH = Fraction of time spent at home (unitless)

Factors	Carcinogenic Risks ($\text{RISK}_{\text{inh-res}}$) Factors by Age Bin			
	3rd Trimester	Age: 0<2	Age: 2<16	Age: 16<30
Dose-air =	Results of Equation 5.4.1.1			
CPF =	1.1	1.1	1.1	1.1
ASF =	10	10	3	1
ED (R) =	0.25	0.99	-	-
ED (HS) =	-	-	1.24	-
ED (WCS) =	-	-	-	1.24
AT =	30	30	30	30
FAH (R) =	0.85	0.85	0.72	0.73

2024 Construction Duration:	0.13 Year
2025 Construction Duration:	1.00 Year
2026 Construction Duration:	0.11 Year
Total Construction Duration:	1.24 Years

Unmitigated Construction Impacts

Source	MEIR DPM Conc. ($\mu\text{g}/\text{m}^3$)	Dose By Age Bin (Equation 5.4.1.1)				Carcinogenic Risks By Age Bin (Equation 8.2.4 A)				Total Cancer Risk per million	Chronic Hazards ³		
		3rd Trimester	Age: 0<2	Age: 2<16	Age: 16<30	3rd Trimester	Age: 0<2	Age: 2<16	Age: 16<30		REL	RESP	
		(mg/kg-day)	(mg/kg-day)	(mg/kg-day)	(mg/kg-day)	per million	per million	per million	per million		($\mu\text{g}/\text{m}^3$)		
Residential Receptor - Unmitigated										16.04	-	0.01	
	On & Off-Site Emission	4.58E-02	1.59E-05	4.79E-05	-	-	1.24E+00	1.48E+01	-	-	16.04	5.0E+00	0.01
Worker & College Student Receptor - Unmitigated										1.23	-	0.03	
	On & Off-Site Emission	1.65E-01	-	-	-	2.71E-05	-	-	-	1.23E+00	1.23	5.0E+00	0.03
High School Receptor - Unmitigated										0.07	-	0.00	
	On & Off-Site Emission	2.00E-03	-	-	4.91E-07	-	-	-	6.70E-02	-	0.07	5.0E+00	0.00

Notes:

1 Inhalation rate taken as the 95th percentile breathing rates (OEHH, 2015).

2 Construction durations determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App A - Construction Emissions).

3 Chronic Hazards for DPM using the chronic reference exposure level (REL) for the Respiratory Toxicological Endpoint.

Mitigated Construction Impacts

Source	MEIR DPM Conc. ($\mu\text{g}/\text{m}^3$)	Dose By Age Bin (Equation 5.4.1.1)				Carcinogenic Risks By Age Bin (Equation 8.2.4 A)				Total Cancer Risk per million	Chronic Hazards ³		
		3rd Trimester	Age: 0<2	Age: 2<16	Age: 16<30	3rd Trimester	Age: 0<2	Age: 2<16	Age: 16<30		REL	RESP	
		(mg/kg-day)	(mg/kg-day)	(mg/kg-day)	(mg/kg-day)	per million	per million	per million	per million		($\mu\text{g}/\text{m}^3$)		
Residential Receptor - Mitigated										6.45	-	0.00	
	On & Off-Site Emission	1.84E-02	6.38E-06	1.93E-05	-	-	4.97E-01	5.95E+00	-	-	6.45	5.0E+00	0.00
Worker & College Student Receptor - Mitigated										0.50	-	0.01	
	On & Off-Site Emission	6.62E-02	-	-	-	1.09E-05	-	-	-	4.96E-01	0.50	5.0E+00	0.01
High School Receptor - Mitigated										0.03	-	0.00	
	On & Off-Site Emission	8.03E-04	-	-	1.97E-07	-	-	-	2.70E-02	-	0.03	5.0E+00	0.00

Notes:

1 Inhalation rate taken as the 95th percentile breathing rates (OEHH, 2015).

2 Construction durations determined for each year of construction to adjust receptor exposures to the exposure durations for each construction year (see App A - Construction Emissions).

3 Chronic Hazards for DPM using the chronic reference exposure level (REL) for the Respiratory Toxicological Endpoint.

Permitted Stationary Sources within 1,000 feet of the Project Site

FID	Facility Name	Address	Source Type	Notes	Cancer Risk	Hazard Index	Annual PM2.5 Concentration
8973	The Mark at Berkeley LLC	2580 BANCROFT WAY	Generator	-	5.649	0.002	0.008
9675	University of California Berkeley	Berkeley Campus	Generator	-	6.618	0.010	0.008
9681	University of California Berkeley	Berkeley Campus	Generator	-	1.839	0.003	0.002
9686	University of California Berkeley	Berkeley Campus	Generator	-	1.707	0.004	0.002
9690	University of California Berkeley	Berkeley Campus	Generator	-	0.179	0.000	0.000
9693	University of California Berkeley	Berkeley Campus	Generator	-	0.803	0.001	0.001
9698	University of California Berkeley	Berkeley Campus	Generator	-	0.288	0.001	0.000

Permitted Stationary Source Risks Adjusted for Distance to Residential M

FID	Facility Name	UTM Coordinate (X)	UTM Coordinate (Y)	Distance to Residential MER (feet)	Cancer Risk (Adjusted)	Hazard Index (Adjusted)	Annual PM2.5 Concentration (Adjusted)
8973	The Mark at Berkeley LLC	-13609627.39	4560896.49	750	0.339	0.000	0.000
9675	University of California Berkeley	-13609782.55	4561059.64	1,115	0.265	0.000	0.000
9681	University of California Berkeley	-13609429.59	4561440.82	1,365	0.074	0.000	0.000
9686	University of California Berkeley	-13609315.69	4560792.55	175	0.700	0.002	0.001
9690	University of California Berkeley	-13609361.78	4560693.90	520	0.018	0.000	0.000
9693	University of California Berkeley	-13609791.03	4561050.25	1,115	0.032	0.000	0.000
9698	University of California Berkeley	-13609433.83	4560608.00	625	0.023	0.000	0.000
TOTALS:					1.45	0.00	0.00

Control Pathway

AERMOD

Dispersion Options

Titles Bancroft Parking Garage Construction Health Risk Assessment	
Dispersion Options ☐ Regulatory Default ☒ Non-Default Options	Dispersion Coefficient Urban Population: Name (Optional): Roughness Length:
☒ Flat & Elevated Terrain ☐ No Stack-Tip Downwash (NOSTD) ☐ Run in Screening Mode ☐ Conversion of NOx to NO2 (OLM or PVMRM) ☐ No Checks for Non-Sequential Met Data ☒ Fast All Sources (FASTALL) ☐ Fast Area Sources (FASTAREA) ☐ Optimized Area Source Plume Depletion ☐ Gas Deposition BETA Options: ☐ Capped and Horizontal Stack Releases ☐ Adjusted Friction Velocity (u*) in AERMET (ADJ_U*) ☐ Low Wind Options ☐ SCIM (Sampled Chronological Input Model) ☐ Ignore Urban Night / Daytime Transition (NOURBTRAN)	Output Type ☒ Concentration ☐ Total Deposition (Dry & Wet) ☐ Dry Deposition ☐ Wet Deposition Plume Depletion ☐ Dry Removal ☐ Wet Removal Output Warnings ☐ No Output Warnings ☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type PM2.5 Averaging Time Options Hours ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24 ☐ Month ☒ Period ☐ Annual	Exponential Decay ☐ Yes ☒ No Terrain Height Options ☐ Flat ☒ Elevated SO: Meters RE: Meters TG: Meters
Flagpole Receptors ☒ Yes ☐ No Default Height = 1.50 m	

Optional Files



Re-Start File



Init File



Multi-Year Analyses



Event Input File



Error Listing File

Detailed Error Listing File

Filename: UCB Bancroft Parking Garage.err

Source Pathway - Source Inputs

AERMOD

Polygon Area Sources

Source Type: AREA POLY

Source: SITE_FD (Project Site - Fugitive Dust)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
93.25	0.00	0.00025		4	565420.82	4191636.49
		0.00025			565471.81	4191645.12
		0.00025			565485.09	4191571.71
		0.00025			565432.11	4191562.74

Source Type: AREA POLY

Source: SITE_EXH (Project Site - Exhaust)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
93.25	4.15	0.00025	1.93	4	565420.82	4191636.49
		0.00025			565471.81	4191645.12
		0.00025			565485.09	4191571.71
		0.00025			565432.11	4191562.74

Line Volume Sources

Source Type: LINE VOLUME

Source: BAN_EXH (Bancroft Way - Exhaust)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
12.00	1.00000		565158.41	4191506.63	81.09	4.15
			565757.61	4191610.31	109.65	4.15

Source Type: LINE VOLUME

Source: BAN_FD (Bancroft Way - Fugitive Dust)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
12.00	1.00000		565158.41	4191506.63	81.09	0.00
			565757.61	4191610.31	109.65	0.00

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
BAN_FD	L0000001	565164.32	4191507.66	81.41	0.00	0.01961	12.00		5.58	0.00
	L0000002	565176.14	4191509.70	81.87	0.00	0.01961	12.00		5.58	0.00
	L0000003	565187.97	4191511.75	82.33	0.00	0.01961	12.00		5.58	0.00
	L0000004	565199.79	4191513.79	82.79	0.00	0.01961	12.00		5.58	0.00
	L0000005	565211.62	4191515.84	83.25	0.00	0.01961	12.00		5.58	0.00
	L0000006	565223.44	4191517.89	83.72	0.00	0.01961	12.00		5.58	0.00
	L0000007	565235.26	4191519.93	84.18	0.00	0.01961	12.00		5.58	0.00
	L0000008	565247.09	4191521.98	84.64	0.00	0.01961	12.00		5.58	0.00
	L0000009	565258.91	4191524.02	84.92	0.00	0.01961	12.00		5.58	0.00
	L0000010	565270.74	4191526.07	84.99	0.00	0.01961	12.00		5.58	0.00
	L0000011	565282.56	4191528.11	85.11	0.00	0.01961	12.00		5.58	0.00
	L0000012	565294.39	4191530.16	85.62	0.00	0.01961	12.00		5.58	0.00
	L0000013	565306.21	4191532.21	86.15	0.00	0.01961	12.00		5.58	0.00
	L0000014	565318.03	4191534.25	86.68	0.00	0.01961	12.00		5.58	0.00
	L0000015	565329.86	4191536.30	87.21	0.00	0.01961	12.00		5.58	0.00
	L0000016	565341.68	4191538.34	87.74	0.00	0.01961	12.00		5.58	0.00
	L0000017	565353.51	4191540.39	88.45	0.00	0.01961	12.00		5.58	0.00
	L0000018	565365.33	4191542.44	89.14	0.00	0.01961	12.00		5.58	0.00
	L0000019	565377.16	4191544.48	89.60	0.00	0.01961	12.00		5.58	0.00
	L0000020	565388.98	4191546.53	89.67	0.00	0.01961	12.00		5.58	0.00
	L0000021	565400.81	4191548.57	89.74	0.00	0.01961	12.00		5.58	0.00
	L0000022	565412.63	4191550.62	90.11	0.00	0.01961	12.00		5.58	0.00
	L0000023	565424.45	4191552.66	90.58	0.00	0.01961	12.00		5.58	0.00
	L0000024	565436.28	4191554.71	91.04	0.00	0.01961	12.00		5.58	0.00

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
BAN_FD	L0000025	565448.10	4191556.76	91.50	0.00	0.01961	12.00		5.58	0.00
	L0000026	565459.93	4191558.80	91.96	0.00	0.01961	12.00		5.58	0.00
	L0000027	565471.75	4191560.85	92.43	0.00	0.01961	12.00		5.58	0.00
	L0000028	565483.58	4191562.89	92.89	0.00	0.01961	12.00		5.58	0.00
	L0000029	565495.40	4191564.94	93.35	0.00	0.01961	12.00		5.58	0.00
	L0000030	565507.22	4191566.98	93.81	0.00	0.01961	12.00		5.58	0.00
	L0000031	565519.05	4191569.03	94.28	0.00	0.01961	12.00		5.58	0.00
	L0000032	565530.87	4191571.08	94.99	0.00	0.01961	12.00		5.58	0.00
	L0000033	565542.70	4191573.12	95.84	0.00	0.01961	12.00		5.58	0.00
	L0000034	565554.52	4191575.17	96.68	0.00	0.01961	12.00		5.58	0.00
	L0000035	565566.35	4191577.21	97.26	0.00	0.01961	12.00		5.58	0.00
	L0000036	565578.17	4191579.26	97.78	0.00	0.01961	12.00		5.58	0.00
	L0000037	565589.99	4191581.31	98.40	0.00	0.01961	12.00		5.58	0.00
	L0000038	565601.82	4191583.35	99.16	0.00	0.01961	12.00		5.58	0.00
	L0000039	565613.64	4191585.40	99.97	0.00	0.01961	12.00		5.58	0.00
	L0000040	565625.47	4191587.44	100.42	0.00	0.01961	12.00		5.58	0.00
	L0000041	565637.29	4191589.49	100.88	0.00	0.01961	12.00		5.58	0.00
	L0000042	565649.12	4191591.53	101.52	0.00	0.01961	12.00		5.58	0.00
	L0000043	565660.94	4191593.58	102.27	0.00	0.01961	12.00		5.58	0.00
	L0000044	565672.76	4191595.63	102.96	0.00	0.01961	12.00		5.58	0.00
	L0000045	565684.59	4191597.67	103.74	0.00	0.01961	12.00		5.58	0.00
	L0000046	565696.41	4191599.72	104.53	0.00	0.01961	12.00		5.58	0.00
	L0000047	565708.24	4191601.76	105.40	0.00	0.01961	12.00		5.58	0.00
	L0000048	565720.06	4191603.81	106.43	0.00	0.01961	12.00		5.58	0.00
	L0000049	565731.89	4191605.86	107.51	0.00	0.01961	12.00		5.58	0.00

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
BAN_FD	L0000050	565743.71	4191607.90	108.40	0.00	0.01961	12.00		5.58	0.00
	L0000051	565755.53	4191609.95	109.26	0.00	0.01961	12.00		5.58	0.00

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
BAN_EXH	L0000086	565164.32	4191507.66	81.41	4.15	0.01961	12.00		5.58	3.86
	L0000087	565176.14	4191509.70	81.87	4.15	0.01961	12.00		5.58	3.86
	L0000088	565187.97	4191511.75	82.33	4.15	0.01961	12.00		5.58	3.86
	L0000089	565199.79	4191513.79	82.79	4.15	0.01961	12.00		5.58	3.86
	L0000090	565211.62	4191515.84	83.25	4.15	0.01961	12.00		5.58	3.86
	L0000091	565223.44	4191517.89	83.72	4.15	0.01961	12.00		5.58	3.86
	L0000092	565235.26	4191519.93	84.18	4.15	0.01961	12.00		5.58	3.86
	L0000093	565247.09	4191521.98	84.64	4.15	0.01961	12.00		5.58	3.86
	L0000094	565258.91	4191524.02	84.92	4.15	0.01961	12.00		5.58	3.86
	L0000095	565270.74	4191526.07	84.99	4.15	0.01961	12.00		5.58	3.86
	L0000096	565282.56	4191528.11	85.11	4.15	0.01961	12.00		5.58	3.86
	L0000097	565294.39	4191530.16	85.62	4.15	0.01961	12.00		5.58	3.86
	L0000098	565306.21	4191532.21	86.15	4.15	0.01961	12.00		5.58	3.86
	L0000099	565318.03	4191534.25	86.68	4.15	0.01961	12.00		5.58	3.86
	L0000100	565329.86	4191536.30	87.21	4.15	0.01961	12.00		5.58	3.86
	L0000101	565341.68	4191538.34	87.74	4.15	0.01961	12.00		5.58	3.86
	L0000102	565353.51	4191540.39	88.45	4.15	0.01961	12.00		5.58	3.86
	L0000103	565365.33	4191542.44	89.14	4.15	0.01961	12.00		5.58	3.86
	L0000104	565377.16	4191544.48	89.60	4.15	0.01961	12.00		5.58	3.86
	L0000105	565388.98	4191546.53	89.67	4.15	0.01961	12.00		5.58	3.86
	L0000106	565400.81	4191548.57	89.74	4.15	0.01961	12.00		5.58	3.86

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
BAN_EXH	L0000107	565412.63	4191550.62	90.11	4.15	0.01961	12.00		5.58	3.86
	L0000108	565424.45	4191552.66	90.58	4.15	0.01961	12.00		5.58	3.86
	L0000109	565436.28	4191554.71	91.04	4.15	0.01961	12.00		5.58	3.86
	L0000110	565448.10	4191556.76	91.50	4.15	0.01961	12.00		5.58	3.86
	L0000111	565459.93	4191558.80	91.96	4.15	0.01961	12.00		5.58	3.86
	L0000112	565471.75	4191560.85	92.43	4.15	0.01961	12.00		5.58	3.86
	L0000113	565483.58	4191562.89	92.89	4.15	0.01961	12.00		5.58	3.86
	L0000114	565495.40	4191564.94	93.35	4.15	0.01961	12.00		5.58	3.86
	L0000115	565507.22	4191566.98	93.81	4.15	0.01961	12.00		5.58	3.86
	L0000116	565519.05	4191569.03	94.28	4.15	0.01961	12.00		5.58	3.86
	L0000117	565530.87	4191571.08	94.99	4.15	0.01961	12.00		5.58	3.86
	L0000118	565542.70	4191573.12	95.84	4.15	0.01961	12.00		5.58	3.86
	L0000119	565554.52	4191575.17	96.68	4.15	0.01961	12.00		5.58	3.86
	L0000120	565566.35	4191577.21	97.26	4.15	0.01961	12.00		5.58	3.86
	L0000121	565578.17	4191579.26	97.78	4.15	0.01961	12.00		5.58	3.86
	L0000122	565589.99	4191581.31	98.40	4.15	0.01961	12.00		5.58	3.86
	L0000123	565601.82	4191583.35	99.16	4.15	0.01961	12.00		5.58	3.86
	L0000124	565613.64	4191585.40	99.97	4.15	0.01961	12.00		5.58	3.86
	L0000125	565625.47	4191587.44	100.42	4.15	0.01961	12.00		5.58	3.86
	L0000126	565637.29	4191589.49	100.88	4.15	0.01961	12.00		5.58	3.86
	L0000127	565649.12	4191591.53	101.52	4.15	0.01961	12.00		5.58	3.86
	L0000128	565660.94	4191593.58	102.27	4.15	0.01961	12.00		5.58	3.86
	L0000129	565672.76	4191595.63	102.96	4.15	0.01961	12.00		5.58	3.86
	L0000130	565684.59	4191597.67	103.74	4.15	0.01961	12.00		5.58	3.86
	L0000131	565696.41	4191599.72	104.53	4.15	0.01961	12.00		5.58	3.86

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
BAN_EXH	L0000132	565708.24	4191601.76	105.40	4.15	0.01961	12.00		5.58	3.86
	L0000133	565720.06	4191603.81	106.43	4.15	0.01961	12.00		5.58	3.86
	L0000134	565731.89	4191605.86	107.51	4.15	0.01961	12.00		5.58	3.86
	L0000135	565743.71	4191607.90	108.40	4.15	0.01961	12.00		5.58	3.86
	L0000136	565755.53	4191609.95	109.26	4.15	0.01961	12.00		5.58	3.86

Receptor Pathway

AERMOD

Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	565475.60	4191665.64		0.00	1.50
2	565518.32	4191625.89			1.50
3	565515.60	4191645.64		0.00	1.50
4	565515.60	4191665.64		0.00	1.50
5	565321.24	4191575.95		0.00	1.50
6	565321.24	4191595.95		0.00	1.50
7	565321.24	4191615.95		0.00	1.50
8	565341.24	4191575.95		0.00	1.50
9	565341.24	4191595.95		0.00	1.50
10	565341.24	4191615.95		0.00	1.50
11	565341.24	4191635.95		0.00	1.50
12	565361.24	4191575.95		0.00	1.50
13	565361.24	4191595.95		0.00	1.50
14	565361.24	4191615.95		0.00	1.50
15	565361.24	4191635.95		0.00	1.50
16	565381.24	4191575.95		0.00	1.50
17	565381.24	4191595.95		0.00	1.50
18	565381.24	4191615.95		0.00	1.50
19	565381.24	4191635.95		0.00	1.50
20	565401.24	4191595.95		0.00	1.50
21	565401.24	4191615.95		0.00	1.50
22	565401.24	4191635.95		0.00	1.50
23	565388.66	4191475.01		0.00	1.50
24	565388.66	4191495.01		0.00	1.50
25	565388.66	4191515.01		0.00	1.50
26	565388.66	4191535.01		0.00	1.50
27	565408.66	4191475.01		0.00	1.50
28	565408.66	4191495.01		0.00	1.50
29	565408.66	4191515.01		0.00	1.50
30	565408.66	4191535.01		0.00	1.50

Receptor Pathway

				AERMOD
31	565428.66	4191475.01	0.00	1.50
32	565428.66	4191495.01	0.00	1.50
33	565428.66	4191515.01	0.00	1.50
34	565428.66	4191535.01	0.00	1.50
35	565448.66	4191475.01	0.00	1.50
36	565448.66	4191495.01	0.00	1.50
37	565448.66	4191515.01	0.00	1.50
38	565448.66	4191535.01	0.00	1.50
39	565468.66	4191475.01	0.00	1.50
40	565468.66	4191495.01	0.00	1.50
41	565468.66	4191515.01	0.00	1.50
42	565468.66	4191535.01	0.00	1.50
43	565488.66	4191475.01	0.00	1.50
44	565488.66	4191515.01	0.00	1.50
45	565488.66	4191535.01	0.00	1.50
46	565508.66	4191535.01	0.00	1.50
47	565508.66	4191555.01	0.00	1.50
48	565528.66	4191535.01	0.00	1.50
49	565528.66	4191555.01	0.00	1.50
50	565548.66	4191535.01	0.00	1.50
51	565548.66	4191555.01	0.00	1.50
52	565428.10	4191702.72	0.00	1.50
53	565588.28	4191527.08	0.00	1.50
54	565588.28	4191547.08	0.00	1.50
55	565186.56	4191441.18	0.00	1.50
56	565186.56	4191461.18	0.00	1.50
57	565186.56	4191481.18	0.00	1.50
58	565186.56	4191501.18	0.00	1.50
59	565206.56	4191441.18	0.00	1.50
60	565206.56	4191461.18	0.00	1.50
61	565206.56	4191481.18	0.00	1.50
62	565206.56	4191501.18	0.00	1.50
63	565226.56	4191441.18	0.00	1.50
64	565226.56	4191461.18	0.00	1.50
65	565226.56	4191481.18	0.00	1.50
66	565226.56	4191501.18	0.00	1.50
67	565246.56	4191441.18	0.00	1.50
68	565246.56	4191461.18	0.00	1.50

Receptor Pathway

				AERMOD
69	565246.56	4191481.18	0.00	1.50
70	565246.56	4191501.18	0.00	1.50
71	565266.56	4191441.18	0.00	1.50
72	565266.56	4191461.18	0.00	1.50
73	565266.56	4191481.18	0.00	1.50
74	565266.56	4191501.18	0.00	1.50
75	565286.56	4191481.18	0.00	1.50
76	565286.56	4191501.18	0.00	1.50
77	565306.56	4191501.18	0.00	1.50
78	565306.56	4191521.18	0.00	1.50
79	565326.56	4191501.18	0.00	1.50
80	565326.56	4191521.18	0.00	1.50
81	565346.56	4191461.18	0.00	1.50
82	565346.56	4191481.18	0.00	1.50
83	565346.56	4191501.18	0.00	1.50
84	565346.56	4191521.18	0.00	1.50
85	565236.29	4191597.31	0.00	1.50
86	565236.29	4191617.31	0.00	1.50
87	565236.29	4191637.31	0.00	1.50
88	565236.29	4191657.31	0.00	1.50
89	565236.29	4191677.31	0.00	1.50
90	565256.29	4191557.31	0.00	1.50
91	565256.29	4191577.31	0.00	1.50
92	565256.29	4191597.31	0.00	1.50
93	565256.29	4191617.31	0.00	1.50
94	565256.29	4191637.31	0.00	1.50
95	565256.29	4191657.31	0.00	1.50
96	565256.29	4191677.31	0.00	1.50
97	565276.29	4191557.31	0.00	1.50
98	565276.29	4191577.31	0.00	1.50
99	565276.29	4191597.31	0.00	1.50
100	565276.29	4191617.31	0.00	1.50
101	565276.29	4191637.31	0.00	1.50
102	565276.29	4191657.31	0.00	1.50
103	565276.29	4191677.31	0.00	1.50
104	565296.29	4191557.31	0.00	1.50
105	565296.29	4191577.31	0.00	1.50
106	565296.29	4191597.31	0.00	1.50

Receptor Pathway

				AERMOD
107	565296.29	4191637.31	0.00	1.50
108	565296.29	4191657.31	0.00	1.50
109	565316.29	4191657.31	0.00	1.50
110	565523.53	4191738.36	0.00	1.50
111	565523.53	4191758.36	0.00	1.50
112	565543.53	4191678.36	0.00	1.50
113	565543.53	4191698.36	0.00	1.50
114	565543.53	4191718.36	0.00	1.50
115	565543.53	4191738.36	0.00	1.50
116	565543.53	4191758.36	0.00	1.50
117	565563.53	4191678.36	0.00	1.50
118	565563.53	4191698.36	0.00	1.50
119	565563.53	4191718.36	0.00	1.50
120	565563.53	4191738.36	0.00	1.50
121	565563.53	4191758.36	0.00	1.50
122	565583.53	4191678.36	0.00	1.50
123	565583.53	4191698.36	0.00	1.50
124	565583.53	4191718.36	0.00	1.50
125	565623.53	4191618.36	0.00	1.50
126	565623.53	4191638.36	0.00	1.50
127	565623.53	4191658.36	0.00	1.50
128	565623.53	4191678.36	0.00	1.50
129	565643.53	4191618.36	0.00	1.50
130	565643.53	4191638.36	0.00	1.50
131	565643.53	4191658.36	0.00	1.50
132	565643.53	4191678.36	0.00	1.50
133	565663.53	4191618.36	0.00	1.50
134	565663.53	4191638.36	0.00	1.50
135	565663.53	4191658.36	0.00	1.50
136	565663.53	4191678.36	0.00	1.50
137	565683.53	4191618.36	0.00	1.50
138	565683.53	4191638.36	0.00	1.50
139	565683.53	4191658.36	0.00	1.50
140	565683.53	4191678.36	0.00	1.50
141	565703.53	4191618.36	0.00	1.50
142	565703.53	4191638.36	0.00	1.50
143	565703.53	4191658.36	0.00	1.50
144	565703.53	4191678.36	0.00	1.50

Receptor Pathway

				AERMOD
145	565703.53	4191698.36	0.00	1.50
146	565723.53	4191638.36	0.00	1.50
147	565723.53	4191658.36	0.00	1.50
148	565723.53	4191678.36	0.00	1.50
149	565510.13	4191494.14	0.00	1.50
150	565530.13	4191494.14	0.00	1.50
151	565530.13	4191514.14	0.00	1.50
152	565550.13	4191494.14	0.00	1.50
153	565550.13	4191514.14	0.00	1.50
154	565600.23	4191495.50	0.00	1.50
155	565620.23	4191495.50	0.00	1.50
156	565620.23	4191515.50	0.00	1.50
157	565620.23	4191535.50	0.00	1.50
158	565620.23	4191555.50	0.00	1.50
159	565640.23	4191495.50	0.00	1.50
160	565640.23	4191515.50	0.00	1.50
161	565640.23	4191535.50	0.00	1.50
162	565640.23	4191555.50	0.00	1.50
163	565640.23	4191575.50	0.00	1.50
164	565660.23	4191495.50	0.00	1.50
165	565660.23	4191515.50	0.00	1.50
166	565660.23	4191535.50	0.00	1.50
167	565660.23	4191555.50	0.00	1.50
168	565660.23	4191575.50	0.00	1.50
169	565680.23	4191515.50	0.00	1.50
170	565680.23	4191535.50	0.00	1.50
171	565680.23	4191555.50	0.00	1.50
172	565680.23	4191575.50	0.00	1.50
173	565700.23	4191515.50	0.00	1.50
174	565700.23	4191535.50	0.00	1.50
175	565700.23	4191555.50	0.00	1.50
176	565700.23	4191575.50	0.00	1.50
177	565720.23	4191515.50	0.00	1.50
178	565720.23	4191535.50	0.00	1.50
179	565720.23	4191555.50	0.00	1.50
180	565720.23	4191575.50	0.00	1.50
181	565740.23	4191515.50	0.00	1.50
182	565740.23	4191535.50	0.00	1.50

Receptor Pathway

AERMOD

183	565740.23	4191555.50	0.00	1.50
184	565740.23	4191575.50	0.00	1.50
185	565740.23	4191595.50	0.00	1.50
186	565290.96	4191457.99	0.00	1.50
187	565310.96	4191457.99	0.00	1.50
188	565310.96	4191477.99	0.00	1.50
189	565330.96	4191457.99	0.00	1.50
190	565318.13	4191253.10	0.00	1.50
191	565318.13	4191273.10	0.00	1.50
192	565338.13	4191253.10	0.00	1.50
193	565338.13	4191273.10	0.00	1.50
194	565338.13	4191293.10	0.00	1.50
195	565338.13	4191313.10	0.00	1.50
196	565358.13	4191253.10	0.00	1.50
197	565358.13	4191273.10	0.00	1.50
198	565358.13	4191293.10	0.00	1.50
199	565358.13	4191313.10	0.00	1.50
200	565378.13	4191253.10	0.00	1.50
201	565378.13	4191273.10	0.00	1.50
202	565378.13	4191293.10	0.00	1.50
203	565378.13	4191313.10	0.00	1.50
204	565398.13	4191253.10	0.00	1.50

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	WCS	
2	R	

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: UCB Bancroft Parking Garage.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: UCB Bancroft Parking Garage.PFL
Format Type: Default AERMET format

Wind Speed



Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 1.80 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2013	37.72	122.23	KOAK
Upper Air		2013	37.72	122.23	KOAK

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 1/1/2018 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.54765	ug/m^3	WCS_001	565475.60	4191665.64	96.05	1.50	581.00	
PERIOD		3.74034	ug/m^3	WCS_003	565515.60	4191645.64	96.71	1.50	581.00	
PERIOD		2.81427	ug/m^3	WCS_004	565515.60	4191665.64	97.38	1.50	581.00	
PERIOD		6.29523	ug/m^3	WCS_005	565321.24	4191575.95	88.91	1.50	581.00	
PERIOD		4.21289	ug/m^3	WCS_006	565321.24	4191595.95	89.58	1.50	581.00	
PERIOD		3.03641	ug/m^3	WCS_007	565321.24	4191615.95	90.25	1.50	581.00	
PERIOD		6.97822	ug/m^3	WCS_008	565341.24	4191575.95	89.58	1.50	581.00	
PERIOD		4.59991	ug/m^3	WCS_009	565341.24	4191595.95	90.25	1.50	581.00	
PERIOD		3.28738	ug/m^3	WCS_010	565341.24	4191615.95	90.91	1.50	581.00	
PERIOD		2.47779	ug/m^3	WCS_011	565341.24	4191635.95	91.53	1.50	581.00	
PERIOD		7.72529	ug/m^3	WCS_012	565361.24	4191575.95	90.25	1.50	581.00	
PERIOD		5.01151	ug/m^3	WCS_013	565361.24	4191595.95	90.91	1.50	581.00	
PERIOD		3.54555	ug/m^3	WCS_014	565361.24	4191615.95	91.58	1.50	581.00	
PERIOD		2.65046	ug/m^3	WCS_015	565361.24	4191635.95	92.25	1.50	581.00	
PERIOD		8.63421	ug/m^3	WCS_016	565381.24	4191575.95	90.65	1.50	581.00	
PERIOD		5.48912	ug/m^3	WCS_017	565381.24	4191595.95	91.32	1.50	581.00	
PERIOD		3.83944	ug/m^3	WCS_018	565381.24	4191615.95	91.99	1.50	581.00	
PERIOD		2.84720	ug/m^3	WCS_019	565381.24	4191635.95	92.65	1.50	581.00	
PERIOD		6.08100	ug/m^3	WCS_020	565401.24	4191595.95	91.32	1.50	581.00	
PERIOD		4.19673	ug/m^3	WCS_021	565401.24	4191615.95	91.99	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		3.08068	ug/m^3	WCS_022	565401.24	4191635.95	92.65	1.50	581.00	
PERIOD		4.45738	ug/m^3	WCS_023	565388.66	4191475.01	87.15	1.50	581.00	
PERIOD		6.62411	ug/m^3	WCS_024	565388.66	4191495.01	87.48	1.50	581.00	
PERIOD		10.57884	ug/m^3	WCS_025	565388.66	4191515.01	88.43	1.50	581.00	
PERIOD		18.41274	ug/m^3	WCS_026	565388.66	4191535.01	89.29	1.50	581.00	
PERIOD		4.32475	ug/m^3	WCS_027	565408.66	4191475.01	87.46	1.50	581.00	
PERIOD		6.30792	ug/m^3	WCS_028	565408.66	4191495.01	88.13	1.50	581.00	
PERIOD		9.87175	ug/m^3	WCS_029	565408.66	4191515.01	88.80	1.50	581.00	
PERIOD		17.97223	ug/m^3	WCS_030	565408.66	4191535.01	89.46	1.50	581.00	
PERIOD		4.18005	ug/m^3	WCS_031	565428.66	4191475.01	88.13	1.50	581.00	
PERIOD		5.99052	ug/m^3	WCS_032	565428.66	4191495.01	88.80	1.50	581.00	
PERIOD		9.14500	ug/m^3	WCS_033	565428.66	4191515.01	89.46	1.50	581.00	
PERIOD		15.88739	ug/m^3	WCS_034	565428.66	4191535.01	90.13	1.50	581.00	
PERIOD		4.02905	ug/m^3	WCS_035	565448.66	4191475.01	88.80	1.50	581.00	
PERIOD		5.67685	ug/m^3	WCS_036	565448.66	4191495.01	89.46	1.50	581.00	
PERIOD		8.51102	ug/m^3	WCS_037	565448.66	4191515.01	90.13	1.50	581.00	
PERIOD		14.22588	ug/m^3	WCS_038	565448.66	4191535.01	90.80	1.50	581.00	
PERIOD		3.87294	ug/m^3	WCS_039	565468.66	4191475.01	89.46	1.50	581.00	
PERIOD		5.39076	ug/m^3	WCS_040	565468.66	4191495.01	90.13	1.50	581.00	
PERIOD		7.94734	ug/m^3	WCS_041	565468.66	4191515.01	90.80	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		12.88219	ug/m^3	WCS_042	565468.66	4191535.01	91.46	1.50	581.00	
PERIOD		3.72373	ug/m^3	WCS_043	565488.66	4191475.01	90.13	1.50	581.00	
PERIOD		7.44019	ug/m^3	WCS_044	565488.66	4191515.01	91.46	1.50	581.00	
PERIOD		11.75269	ug/m^3	WCS_045	565488.66	4191535.01	92.13	1.50	581.00	
PERIOD		10.86499	ug/m^3	WCS_046	565508.66	4191535.01	92.43	1.50	581.00	
PERIOD		18.11722	ug/m^3	WCS_047	565508.66	4191555.01	93.44	1.50	581.00	
PERIOD		10.02589	ug/m^3	WCS_048	565528.66	4191535.01	92.92	1.50	581.00	
PERIOD		17.49860	ug/m^3	WCS_049	565528.66	4191555.01	94.26	1.50	581.00	
PERIOD		9.15806	ug/m^3	WCS_050	565548.66	4191535.01	94.26	1.50	581.00	
PERIOD		15.31116	ug/m^3	WCS_051	565548.66	4191555.01	95.59	1.50	581.00	
PERIOD		1.51265	ug/m^3	WCS_052	565428.10	4191702.72	95.70	1.50	581.00	
PERIOD		6.72359	ug/m^3	WCS_053	565588.28	4191527.08	96.21	1.50	581.00	
PERIOD		10.07623	ug/m^3	WCS_054	565588.28	4191547.08	97.54	1.50	581.00	
PERIOD		1.31903	ug/m^3	WCS_055	565186.56	4191441.18	80.16	1.50	581.00	
PERIOD		1.94454	ug/m^3	WCS_056	565186.56	4191461.18	80.83	1.50	581.00	
PERIOD		3.62690	ug/m^3	WCS_057	565186.56	4191481.18	81.38	1.50	581.00	
PERIOD		9.97575	ug/m^3	WCS_058	565186.56	4191501.18	81.93	1.50	581.00	
PERIOD		1.48745	ug/m^3	WCS_059	565206.56	4191441.18	80.23	1.50	581.00	
PERIOD		2.39695	ug/m^3	WCS_060	565206.56	4191461.18	81.19	1.50	581.00	
PERIOD		4.75700	ug/m^3	WCS_061	565206.56	4191481.18	81.93	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		12.46912	ug/m^3	WCS_062	565206.56	4191501.18	82.60	1.50	581.00	
PERIOD		1.72490	ug/m^3	WCS_063	565226.56	4191441.18	80.50	1.50	581.00	
PERIOD		2.88430	ug/m^3	WCS_064	565226.56	4191461.18	81.69	1.50	581.00	
PERIOD		5.46024	ug/m^3	WCS_065	565226.56	4191481.18	82.54	1.50	581.00	
PERIOD		12.11981	ug/m^3	WCS_066	565226.56	4191501.18	83.26	1.50	581.00	
PERIOD		1.98271	ug/m^3	WCS_067	565246.56	4191441.18	81.62	1.50	581.00	
PERIOD		3.26156	ug/m^3	WCS_068	565246.56	4191461.18	81.92	1.50	581.00	
PERIOD		5.82347	ug/m^3	WCS_069	565246.56	4191481.18	82.87	1.50	581.00	
PERIOD		11.53080	ug/m^3	WCS_070	565246.56	4191501.18	83.93	1.50	581.00	
PERIOD		2.19635	ug/m^3	WCS_071	565266.56	4191441.18	82.07	1.50	581.00	
PERIOD		3.50271	ug/m^3	WCS_072	565266.56	4191461.18	82.36	1.50	581.00	
PERIOD		5.94873	ug/m^3	WCS_073	565266.56	4191481.18	83.21	1.50	581.00	
PERIOD		11.00570	ug/m^3	WCS_074	565266.56	4191501.18	84.16	1.50	581.00	
PERIOD		5.91989	ug/m^3	WCS_075	565286.56	4191481.18	83.60	1.50	581.00	
PERIOD		10.44755	ug/m^3	WCS_076	565286.56	4191501.18	84.26	1.50	581.00	
PERIOD		9.74931	ug/m^3	WCS_077	565306.56	4191501.18	84.93	1.50	581.00	
PERIOD		17.75424	ug/m^3	WCS_078	565306.56	4191521.18	85.60	1.50	581.00	
PERIOD		9.06162	ug/m^3	WCS_079	565326.56	4191501.18	85.97	1.50	581.00	
PERIOD		17.34936	ug/m^3	WCS_080	565326.56	4191521.18	86.34	1.50	581.00	
PERIOD		3.62364	ug/m^3	WCS_081	565346.56	4191461.18	85.78	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		5.34421	ug/m^3	WCS_082	565346.56	4191481.18	86.55	1.50	581.00	
PERIOD		8.44532	ug/m^3	WCS_083	565346.56	4191501.18	87.03	1.50	581.00	
PERIOD		15.35231	ug/m^3	WCS_084	565346.56	4191521.18	87.17	1.50	581.00	
PERIOD		2.73317	ug/m^3	WCS_085	565236.29	4191597.31	85.79	1.50	581.00	
PERIOD		2.05961	ug/m^3	WCS_086	565236.29	4191617.31	86.44	1.50	581.00	
PERIOD		1.63211	ug/m^3	WCS_087	565236.29	4191637.31	86.73	1.50	581.00	
PERIOD		1.33564	ug/m^3	WCS_088	565236.29	4191657.31	86.86	1.50	581.00	
PERIOD		1.11952	ug/m^3	WCS_089	565236.29	4191677.31	86.92	1.50	581.00	
PERIOD		6.73437	ug/m^3	WCS_090	565256.29	4191557.31	86.10	1.50	581.00	
PERIOD		4.35321	ug/m^3	WCS_091	565256.29	4191577.31	86.16	1.50	581.00	
PERIOD		3.06732	ug/m^3	WCS_092	565256.29	4191597.31	86.52	1.50	581.00	
PERIOD		2.28377	ug/m^3	WCS_093	565256.29	4191617.31	87.13	1.50	581.00	
PERIOD		1.77824	ug/m^3	WCS_094	565256.29	4191637.31	87.79	1.50	581.00	
PERIOD		1.44099	ug/m^3	WCS_095	565256.29	4191657.31	88.10	1.50	581.00	
PERIOD		1.19979	ug/m^3	WCS_096	565256.29	4191677.31	88.15	1.50	581.00	
PERIOD		7.73248	ug/m^3	WCS_097	565276.29	4191557.31	86.79	1.50	581.00	
PERIOD		4.82858	ug/m^3	WCS_098	565276.29	4191577.31	87.29	1.50	581.00	
PERIOD		3.37599	ug/m^3	WCS_099	565276.29	4191597.31	87.61	1.50	581.00	
PERIOD		2.51502	ug/m^3	WCS_100	565276.29	4191617.31	87.79	1.50	581.00	
PERIOD		1.93885	ug/m^3	WCS_101	565276.29	4191637.31	88.46	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.55634	ug/m^3	WCS_102	565276.29	4191657.31	88.76	1.50	581.00	
PERIOD		1.28767	ug/m^3	WCS_103	565276.29	4191677.31	88.80	1.50	581.00	
PERIOD		8.82083	ug/m^3	WCS_104	565296.29	4191557.31	87.46	1.50	581.00	
PERIOD		5.36128	ug/m^3	WCS_105	565296.29	4191577.31	88.13	1.50	581.00	
PERIOD		3.69224	ug/m^3	WCS_106	565296.29	4191597.31	88.58	1.50	581.00	
PERIOD		2.09637	ug/m^3	WCS_107	565296.29	4191637.31	89.26	1.50	581.00	
PERIOD		1.67650	ug/m^3	WCS_108	565296.29	4191657.31	89.43	1.50	581.00	
PERIOD		1.79621	ug/m^3	WCS_109	565316.29	4191657.31	90.19	1.50	581.00	
PERIOD		1.28660	ug/m^3	WCS_110	565523.53	4191738.36	100.07	1.50	581.00	
PERIOD		1.07478	ug/m^3	WCS_111	565523.53	4191758.36	100.74	1.50	581.00	
PERIOD		2.55051	ug/m^3	WCS_112	565543.53	4191678.36	98.74	1.50	581.00	
PERIOD		2.00546	ug/m^3	WCS_113	565543.53	4191698.36	99.40	1.50	581.00	
PERIOD		1.61443	ug/m^3	WCS_114	565543.53	4191718.36	100.07	1.50	581.00	
PERIOD		1.32167	ug/m^3	WCS_115	565543.53	4191738.36	100.78	1.50	581.00	
PERIOD		1.09268	ug/m^3	WCS_116	565543.53	4191758.36	101.89	1.50	581.00	
PERIOD		2.65178	ug/m^3	WCS_117	565563.53	4191678.36	99.74	1.50	581.00	
PERIOD		2.07074	ug/m^3	WCS_118	565563.53	4191698.36	100.41	1.50	581.00	
PERIOD		1.65660	ug/m^3	WCS_119	565563.53	4191718.36	101.07	1.50	581.00	
PERIOD		1.34941	ug/m^3	WCS_120	565563.53	4191738.36	101.78	1.50	581.00	
PERIOD		1.10926	ug/m^3	WCS_121	565563.53	4191758.36	102.89	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.73471	ug/m^3	WCS_122	565583.53	4191678.36	101.07	1.50	581.00	
PERIOD		2.12108	ug/m^3	WCS_123	565583.53	4191698.36	101.74	1.50	581.00	
PERIOD		1.68633	ug/m^3	WCS_124	565583.53	4191718.36	102.40	1.50	581.00	
PERIOD		8.92540	ug/m^3	WCS_125	565623.53	4191618.36	100.74	1.50	581.00	
PERIOD		5.73680	ug/m^3	WCS_126	565623.53	4191638.36	101.41	1.50	581.00	
PERIOD		4.02259	ug/m^3	WCS_127	565623.53	4191658.36	101.94	1.50	581.00	
PERIOD		2.96897	ug/m^3	WCS_128	565623.53	4191678.36	102.40	1.50	581.00	
PERIOD		9.60179	ug/m^3	WCS_129	565643.53	4191618.36	102.07	1.50	581.00	
PERIOD		6.01862	ug/m^3	WCS_130	565643.53	4191638.36	102.74	1.50	581.00	
PERIOD		4.18989	ug/m^3	WCS_131	565643.53	4191658.36	103.00	1.50	581.00	
PERIOD		3.07956	ug/m^3	WCS_132	565643.53	4191678.36	103.07	1.50	581.00	
PERIOD		10.57997	ug/m^3	WCS_133	565663.53	4191618.36	102.74	1.50	581.00	
PERIOD		6.43380	ug/m^3	WCS_134	565663.53	4191638.36	103.40	1.50	581.00	
PERIOD		4.36179	ug/m^3	WCS_135	565663.53	4191658.36	103.94	1.50	581.00	
PERIOD		3.13037	ug/m^3	WCS_136	565663.53	4191678.36	104.45	1.50	581.00	
PERIOD		11.62773	ug/m^3	WCS_137	565683.53	4191618.36	103.76	1.50	581.00	
PERIOD		6.75271	ug/m^3	WCS_138	565683.53	4191638.36	104.65	1.50	581.00	
PERIOD		4.45594	ug/m^3	WCS_139	565683.53	4191658.36	105.41	1.50	581.00	
PERIOD		3.13043	ug/m^3	WCS_140	565683.53	4191678.36	106.14	1.50	581.00	
PERIOD		12.80596	ug/m^3	WCS_141	565703.53	4191618.36	105.14	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		6.93849	ug/m^3	WCS_142	565703.53	4191638.36	106.48	1.50	581.00	
PERIOD		4.42413	ug/m^3	WCS_143	565703.53	4191658.36	107.41	1.50	581.00	
PERIOD		3.05011	ug/m^3	WCS_144	565703.53	4191678.36	108.14	1.50	581.00	
PERIOD		2.18139	ug/m^3	WCS_145	565703.53	4191698.36	109.47	1.50	581.00	
PERIOD		6.94413	ug/m^3	WCS_146	565723.53	4191638.36	108.48	1.50	581.00	
PERIOD		4.26077	ug/m^3	WCS_147	565723.53	4191658.36	109.41	1.50	581.00	
PERIOD		2.90386	ug/m^3	WCS_148	565723.53	4191678.36	110.10	1.50	581.00	
PERIOD		4.80774	ug/m^3	R_001	565510.13	4191494.14	90.97	1.50	581.00	
PERIOD		4.58328	ug/m^3	R_002	565530.13	4191494.14	91.22	1.50	581.00	
PERIOD		6.47205	ug/m^3	R_003	565530.13	4191514.14	91.95	1.50	581.00	
PERIOD		4.36226	ug/m^3	R_004	565550.13	4191494.14	91.89	1.50	581.00	
PERIOD		6.06543	ug/m^3	R_005	565550.13	4191514.14	93.01	1.50	581.00	
PERIOD		3.89331	ug/m^3	R_006	565600.23	4191495.50	95.12	1.50	581.00	
PERIOD		3.68615	ug/m^3	R_007	565620.23	4191495.50	96.45	1.50	581.00	
PERIOD		4.99015	ug/m^3	R_008	565620.23	4191515.50	96.95	1.50	581.00	
PERIOD		7.08804	ug/m^3	R_009	565620.23	4191535.50	97.83	1.50	581.00	
PERIOD		10.82890	ug/m^3	R_010	565620.23	4191555.50	99.17	1.50	581.00	
PERIOD		3.48157	ug/m^3	R_011	565640.23	4191495.50	97.76	1.50	581.00	
PERIOD		4.69563	ug/m^3	R_012	565640.23	4191515.50	97.85	1.50	581.00	
PERIOD		6.63014	ug/m^3	R_013	565640.23	4191535.50	98.50	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		9.98904	ug/m^3	R_014	565640.23	4191555.50	99.83	1.50	581.00	
PERIOD		18.02487	ug/m^3	R_015	565640.23	4191575.50	100.53	1.50	581.00	
PERIOD		3.28294	ug/m^3	R_016	565660.23	4191495.50	99.09	1.50	581.00	
PERIOD		4.37844	ug/m^3	R_017	565660.23	4191515.50	99.48	1.50	581.00	
PERIOD		6.10624	ug/m^3	R_018	565660.23	4191535.50	100.12	1.50	581.00	
PERIOD		9.07727	ug/m^3	R_019	565660.23	4191555.50	101.08	1.50	581.00	
PERIOD		15.67613	ug/m^3	R_020	565660.23	4191575.50	101.76	1.50	581.00	
PERIOD		4.05654	ug/m^3	R_021	565680.23	4191515.50	101.17	1.50	581.00	
PERIOD		5.59324	ug/m^3	R_022	565680.23	4191535.50	101.76	1.50	581.00	
PERIOD		8.23389	ug/m^3	R_023	565680.23	4191555.50	102.42	1.50	581.00	
PERIOD		13.72973	ug/m^3	R_024	565680.23	4191575.50	103.09	1.50	581.00	
PERIOD		3.75362	ug/m^3	R_025	565700.23	4191515.50	102.75	1.50	581.00	
PERIOD		5.13785	ug/m^3	R_026	565700.23	4191535.50	103.09	1.50	581.00	
PERIOD		7.45226	ug/m^3	R_027	565700.23	4191555.50	103.76	1.50	581.00	
PERIOD		12.07723	ug/m^3	R_028	565700.23	4191575.50	104.42	1.50	581.00	
PERIOD		3.48129	ug/m^3	R_029	565720.23	4191515.50	104.12	1.50	581.00	
PERIOD		4.70649	ug/m^3	R_030	565720.23	4191535.50	104.42	1.50	581.00	
PERIOD		6.71588	ug/m^3	R_031	565720.23	4191555.50	105.09	1.50	581.00	
PERIOD		10.61826	ug/m^3	R_032	565720.23	4191575.50	105.76	1.50	581.00	
PERIOD		3.23399	ug/m^3	R_033	565740.23	4191515.50	105.45	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		4.31135	ug/m^3	R_034	565740.23	4191535.50	105.76	1.50	581.00	
PERIOD		6.03737	ug/m^3	R_035	565740.23	4191555.50	106.42	1.50	581.00	
PERIOD		9.27579	ug/m^3	R_036	565740.23	4191575.50	107.09	1.50	581.00	
PERIOD		16.78784	ug/m^3	R_037	565740.23	4191595.50	107.76	1.50	581.00	
PERIOD		3.40419	ug/m^3	R_038	565290.96	4191457.99	82.97	1.50	581.00	
PERIOD		3.46280	ug/m^3	R_039	565310.96	4191457.99	83.64	1.50	581.00	
PERIOD		5.33095	ug/m^3	R_040	565310.96	4191477.99	84.30	1.50	581.00	
PERIOD		3.45259	ug/m^3	R_041	565330.96	4191457.99	84.73	1.50	581.00	
PERIOD		0.29199	ug/m^3	HS_001	565318.13	4191253.10	79.05	1.50	581.00	
PERIOD		0.33313	ug/m^3	HS_002	565318.13	4191273.10	79.24	1.50	581.00	
PERIOD		0.29723	ug/m^3	HS_003	565338.13	4191253.10	79.71	1.50	581.00	
PERIOD		0.34220	ug/m^3	HS_004	565338.13	4191273.10	80.28	1.50	581.00	
PERIOD		0.39904	ug/m^3	HS_005	565338.13	4191293.10	80.69	1.50	581.00	
PERIOD		0.47261	ug/m^3	HS_006	565338.13	4191313.10	80.80	1.50	581.00	
PERIOD		0.30337	ug/m^3	HS_007	565358.13	4191253.10	80.43	1.50	581.00	
PERIOD		0.35125	ug/m^3	HS_008	565358.13	4191273.10	81.05	1.50	581.00	
PERIOD		0.41228	ug/m^3	HS_009	565358.13	4191293.10	81.49	1.50	581.00	
PERIOD		0.49169	ug/m^3	HS_010	565358.13	4191313.10	81.49	1.50	581.00	
PERIOD		0.31023	ug/m^3	HS_011	565378.13	4191253.10	81.30	1.50	581.00	
PERIOD		0.36086	ug/m^3	HS_012	565378.13	4191273.10	81.78	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-EXH

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.42597	ug/m^3	HS_013	565378.13	4191293.10	82.16	1.50	581.00	
PERIOD		0.51117	ug/m^3	HS_014	565378.13	4191313.10	82.16	1.50	581.00	
PERIOD		0.31774	ug/m^3	HS_015	565398.13	4191253.10	82.56	1.50	581.00	

Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.74502	ug/m^3	WCS_001	565475.60	4191665.64	96.05	1.50	581.00	
PERIOD		4.20377	ug/m^3	WCS_003	565515.60	4191645.64	96.71	1.50	581.00	
PERIOD		3.05276	ug/m^3	WCS_004	565515.60	4191665.64	97.38	1.50	581.00	
PERIOD		8.38885	ug/m^3	WCS_005	565321.24	4191575.95	88.91	1.50	581.00	
PERIOD		5.05142	ug/m^3	WCS_006	565321.24	4191595.95	89.58	1.50	581.00	
PERIOD		3.43044	ug/m^3	WCS_007	565321.24	4191615.95	90.25	1.50	581.00	
PERIOD		9.53091	ug/m^3	WCS_008	565341.24	4191575.95	89.58	1.50	581.00	
PERIOD		5.57036	ug/m^3	WCS_009	565341.24	4191595.95	90.25	1.50	581.00	
PERIOD		3.73395	ug/m^3	WCS_010	565341.24	4191615.95	90.91	1.50	581.00	
PERIOD		2.71688	ug/m^3	WCS_011	565341.24	4191635.95	91.53	1.50	581.00	
PERIOD		10.85776	ug/m^3	WCS_012	565361.24	4191575.95	90.25	1.50	581.00	
PERIOD		6.16194	ug/m^3	WCS_013	565361.24	4191595.95	90.91	1.50	581.00	
PERIOD		4.05545	ug/m^3	WCS_014	565361.24	4191615.95	91.58	1.50	581.00	
PERIOD		2.91668	ug/m^3	WCS_015	565361.24	4191635.95	92.25	1.50	581.00	
PERIOD		12.63150	ug/m^3	WCS_016	565381.24	4191575.95	90.65	1.50	581.00	
PERIOD		6.86647	ug/m^3	WCS_017	565381.24	4191595.95	91.32	1.50	581.00	
PERIOD		4.42711	ug/m^3	WCS_018	565381.24	4191615.95	91.99	1.50	581.00	
PERIOD		3.14422	ug/m^3	WCS_019	565381.24	4191635.95	92.65	1.50	581.00	
PERIOD		7.76130	ug/m^3	WCS_020	565401.24	4191595.95	91.32	1.50	581.00	
PERIOD		4.88117	ug/m^3	WCS_021	565401.24	4191615.95	91.99	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		3.41452	ug/m^3	WCS_022	565401.24	4191635.95	92.65	1.50	581.00	
PERIOD		5.01074	ug/m^3	WCS_023	565388.66	4191475.01	87.15	1.50	581.00	
PERIOD		7.90809	ug/m^3	WCS_024	565388.66	4191495.01	87.48	1.50	581.00	
PERIOD		14.80267	ug/m^3	WCS_025	565388.66	4191515.01	88.43	1.50	581.00	
PERIOD		36.51899	ug/m^3	WCS_026	565388.66	4191535.01	89.29	1.50	581.00	
PERIOD		4.80745	ug/m^3	WCS_027	565408.66	4191475.01	87.46	1.50	581.00	
PERIOD		7.38577	ug/m^3	WCS_028	565408.66	4191495.01	88.13	1.50	581.00	
PERIOD		13.19565	ug/m^3	WCS_029	565408.66	4191515.01	88.80	1.50	581.00	
PERIOD		34.45869	ug/m^3	WCS_030	565408.66	4191535.01	89.46	1.50	581.00	
PERIOD		4.60438	ug/m^3	WCS_031	565428.66	4191475.01	88.13	1.50	581.00	
PERIOD		6.91531	ug/m^3	WCS_032	565428.66	4191495.01	88.80	1.50	581.00	
PERIOD		11.84066	ug/m^3	WCS_033	565428.66	4191515.01	89.46	1.50	581.00	
PERIOD		27.95332	ug/m^3	WCS_034	565428.66	4191535.01	90.13	1.50	581.00	
PERIOD		4.40896	ug/m^3	WCS_035	565448.66	4191475.01	88.80	1.50	581.00	
PERIOD		6.49014	ug/m^3	WCS_036	565448.66	4191495.01	89.46	1.50	581.00	
PERIOD		10.71570	ug/m^3	WCS_037	565448.66	4191515.01	90.13	1.50	581.00	
PERIOD		23.16914	ug/m^3	WCS_038	565448.66	4191535.01	90.80	1.50	581.00	
PERIOD		4.21793	ug/m^3	WCS_039	565468.66	4191475.01	89.46	1.50	581.00	
PERIOD		6.10357	ug/m^3	WCS_040	565468.66	4191495.01	90.13	1.50	581.00	
PERIOD		9.77058	ug/m^3	WCS_041	565468.66	4191515.01	90.80	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		19.63011	ug/m^3	WCS_042	565468.66	4191535.01	91.46	1.50	581.00	
PERIOD		4.03489	ug/m^3	WCS_043	565488.66	4191475.01	90.13	1.50	581.00	
PERIOD		8.96325	ug/m^3	WCS_044	565488.66	4191515.01	91.46	1.50	581.00	
PERIOD		16.94169	ug/m^3	WCS_045	565488.66	4191535.01	92.13	1.50	581.00	
PERIOD		14.92448	ug/m^3	WCS_046	565508.66	4191535.01	92.43	1.50	581.00	
PERIOD		33.88825	ug/m^3	WCS_047	565508.66	4191555.01	93.44	1.50	581.00	
PERIOD		13.23298	ug/m^3	WCS_048	565528.66	4191535.01	92.92	1.50	581.00	
PERIOD		32.17160	ug/m^3	WCS_049	565528.66	4191555.01	94.26	1.50	581.00	
PERIOD		11.77587	ug/m^3	WCS_050	565548.66	4191535.01	94.26	1.50	581.00	
PERIOD		25.94364	ug/m^3	WCS_051	565548.66	4191555.01	95.59	1.50	581.00	
PERIOD		1.58534	ug/m^3	WCS_052	565428.10	4191702.72	95.70	1.50	581.00	
PERIOD		7.92844	ug/m^3	WCS_053	565588.28	4191527.08	96.21	1.50	581.00	
PERIOD		13.64020	ug/m^3	WCS_054	565588.28	4191547.08	97.54	1.50	581.00	
PERIOD		1.52718	ug/m^3	WCS_055	565186.56	4191441.18	80.16	1.50	581.00	
PERIOD		2.44989	ug/m^3	WCS_056	565186.56	4191461.18	80.83	1.50	581.00	
PERIOD		5.91439	ug/m^3	WCS_057	565186.56	4191481.18	81.38	1.50	581.00	
PERIOD		22.66455	ug/m^3	WCS_058	565186.56	4191501.18	81.93	1.50	581.00	
PERIOD		1.70063	ug/m^3	WCS_059	565206.56	4191441.18	80.23	1.50	581.00	
PERIOD		2.98625	ug/m^3	WCS_060	565206.56	4191461.18	81.19	1.50	581.00	
PERIOD		7.29951	ug/m^3	WCS_061	565206.56	4191481.18	81.93	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		27.54869	ug/m^3	WCS_062	565206.56	4191501.18	82.60	1.50	581.00	
PERIOD		1.94324	ug/m^3	WCS_063	565226.56	4191441.18	80.50	1.50	581.00	
PERIOD		3.52479	ug/m^3	WCS_064	565226.56	4191461.18	81.69	1.50	581.00	
PERIOD		7.81819	ug/m^3	WCS_065	565226.56	4191481.18	82.54	1.50	581.00	
PERIOD		24.40337	ug/m^3	WCS_066	565226.56	4191501.18	83.26	1.50	581.00	
PERIOD		2.21188	ug/m^3	WCS_067	565246.56	4191441.18	81.62	1.50	581.00	
PERIOD		3.90359	ug/m^3	WCS_068	565246.56	4191461.18	81.92	1.50	581.00	
PERIOD		7.85806	ug/m^3	WCS_069	565246.56	4191481.18	82.87	1.50	581.00	
PERIOD		20.86999	ug/m^3	WCS_070	565246.56	4191501.18	83.93	1.50	581.00	
PERIOD		2.43720	ug/m^3	WCS_071	565266.56	4191441.18	82.07	1.50	581.00	
PERIOD		4.11919	ug/m^3	WCS_072	565266.56	4191461.18	82.36	1.50	581.00	
PERIOD		7.66383	ug/m^3	WCS_073	565266.56	4191481.18	83.21	1.50	581.00	
PERIOD		18.18839	ug/m^3	WCS_074	565266.56	4191501.18	84.16	1.50	581.00	
PERIOD		7.36355	ug/m^3	WCS_075	565286.56	4191481.18	83.60	1.50	581.00	
PERIOD		15.92767	ug/m^3	WCS_076	565286.56	4191501.18	84.26	1.50	581.00	
PERIOD		14.00702	ug/m^3	WCS_077	565306.56	4191501.18	84.93	1.50	581.00	
PERIOD		35.22562	ug/m^3	WCS_078	565306.56	4191521.18	85.60	1.50	581.00	
PERIOD		12.43835	ug/m^3	WCS_079	565326.56	4191501.18	85.97	1.50	581.00	
PERIOD		34.23428	ug/m^3	WCS_080	565326.56	4191521.18	86.34	1.50	581.00	
PERIOD		4.07347	ug/m^3	WCS_081	565346.56	4191461.18	85.78	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		6.31008	ug/m^3	WCS_082	565346.56	4191481.18	86.55	1.50	581.00	
PERIOD		11.17954	ug/m^3	WCS_083	565346.56	4191501.18	87.03	1.50	581.00	
PERIOD		27.92314	ug/m^3	WCS_084	565346.56	4191521.18	87.17	1.50	581.00	
PERIOD		3.17746	ug/m^3	WCS_085	565236.29	4191597.31	85.79	1.50	581.00	
PERIOD		2.29315	ug/m^3	WCS_086	565236.29	4191617.31	86.44	1.50	581.00	
PERIOD		1.77113	ug/m^3	WCS_087	565236.29	4191637.31	86.73	1.50	581.00	
PERIOD		1.42514	ug/m^3	WCS_088	565236.29	4191657.31	86.86	1.50	581.00	
PERIOD		1.17966	ug/m^3	WCS_089	565236.29	4191677.31	86.92	1.50	581.00	
PERIOD		10.00392	ug/m^3	WCS_090	565256.29	4191557.31	86.10	1.50	581.00	
PERIOD		5.55884	ug/m^3	WCS_091	565256.29	4191577.31	86.16	1.50	581.00	
PERIOD		3.58567	ug/m^3	WCS_092	565256.29	4191597.31	86.52	1.50	581.00	
PERIOD		2.54673	ug/m^3	WCS_093	565256.29	4191617.31	87.13	1.50	581.00	
PERIOD		1.92977	ug/m^3	WCS_094	565256.29	4191637.31	87.79	1.50	581.00	
PERIOD		1.53854	ug/m^3	WCS_095	565256.29	4191657.31	88.10	1.50	581.00	
PERIOD		1.26569	ug/m^3	WCS_096	565256.29	4191677.31	88.15	1.50	581.00	
PERIOD		11.57400	ug/m^3	WCS_097	565276.29	4191557.31	86.79	1.50	581.00	
PERIOD		6.21644	ug/m^3	WCS_098	565276.29	4191577.31	87.29	1.50	581.00	
PERIOD		3.97312	ug/m^3	WCS_099	565276.29	4191597.31	87.61	1.50	581.00	
PERIOD		2.81200	ug/m^3	WCS_100	565276.29	4191617.31	87.79	1.50	581.00	
PERIOD		2.10348	ug/m^3	WCS_101	565276.29	4191637.31	88.46	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		1.65840	ug/m^3	WCS_102	565276.29	4191657.31	88.76	1.50	581.00	
PERIOD		1.35678	ug/m^3	WCS_103	565276.29	4191677.31	88.80	1.50	581.00	
PERIOD		13.40476	ug/m^3	WCS_104	565296.29	4191557.31	87.46	1.50	581.00	
PERIOD		6.97360	ug/m^3	WCS_105	565296.29	4191577.31	88.13	1.50	581.00	
PERIOD		4.36297	ug/m^3	WCS_106	565296.29	4191597.31	88.58	1.50	581.00	
PERIOD		2.27794	ug/m^3	WCS_107	565296.29	4191637.31	89.26	1.50	581.00	
PERIOD		1.78621	ug/m^3	WCS_108	565296.29	4191657.31	89.43	1.50	581.00	
PERIOD		1.91628	ug/m^3	WCS_109	565316.29	4191657.31	90.19	1.50	581.00	
PERIOD		1.33445	ug/m^3	WCS_110	565523.53	4191738.36	100.07	1.50	581.00	
PERIOD		1.10845	ug/m^3	WCS_111	565523.53	4191758.36	100.74	1.50	581.00	
PERIOD		2.74026	ug/m^3	WCS_112	565543.53	4191678.36	98.74	1.50	581.00	
PERIOD		2.11897	ug/m^3	WCS_113	565543.53	4191698.36	99.40	1.50	581.00	
PERIOD		1.68727	ug/m^3	WCS_114	565543.53	4191718.36	100.07	1.50	581.00	
PERIOD		1.37019	ug/m^3	WCS_115	565543.53	4191738.36	100.78	1.50	581.00	
PERIOD		1.12582	ug/m^3	WCS_116	565543.53	4191758.36	101.89	1.50	581.00	
PERIOD		2.86028	ug/m^3	WCS_117	565563.53	4191678.36	99.74	1.50	581.00	
PERIOD		2.19308	ug/m^3	WCS_118	565563.53	4191698.36	100.41	1.50	581.00	
PERIOD		1.73290	ug/m^3	WCS_119	565563.53	4191718.36	101.07	1.50	581.00	
PERIOD		1.39818	ug/m^3	WCS_120	565563.53	4191738.36	101.78	1.50	581.00	
PERIOD		1.14097	ug/m^3	WCS_121	565563.53	4191758.36	102.89	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		2.96348	ug/m^3	WCS_122	565583.53	4191678.36	101.07	1.50	581.00	
PERIOD		2.25217	ug/m^3	WCS_123	565583.53	4191698.36	101.74	1.50	581.00	
PERIOD		1.76566	ug/m^3	WCS_124	565583.53	4191718.36	102.40	1.50	581.00	
PERIOD		13.06601	ug/m^3	WCS_125	565623.53	4191618.36	100.74	1.50	581.00	
PERIOD		7.10212	ug/m^3	WCS_126	565623.53	4191638.36	101.41	1.50	581.00	
PERIOD		4.59233	ug/m^3	WCS_127	565623.53	4191658.36	101.94	1.50	581.00	
PERIOD		3.24789	ug/m^3	WCS_128	565623.53	4191678.36	102.40	1.50	581.00	
PERIOD		14.47277	ug/m^3	WCS_129	565643.53	4191618.36	102.07	1.50	581.00	
PERIOD		7.59743	ug/m^3	WCS_130	565643.53	4191638.36	102.74	1.50	581.00	
PERIOD		4.83852	ug/m^3	WCS_131	565643.53	4191658.36	103.00	1.50	581.00	
PERIOD		3.38476	ug/m^3	WCS_132	565643.53	4191678.36	103.07	1.50	581.00	
PERIOD		17.03157	ug/m^3	WCS_133	565663.53	4191618.36	102.74	1.50	581.00	
PERIOD		8.35161	ug/m^3	WCS_134	565663.53	4191638.36	103.40	1.50	581.00	
PERIOD		5.09605	ug/m^3	WCS_135	565663.53	4191658.36	103.94	1.50	581.00	
PERIOD		3.45560	ug/m^3	WCS_136	565663.53	4191678.36	104.45	1.50	581.00	
PERIOD		20.03270	ug/m^3	WCS_137	565683.53	4191618.36	103.76	1.50	581.00	
PERIOD		8.98789	ug/m^3	WCS_138	565683.53	4191638.36	104.65	1.50	581.00	
PERIOD		5.26795	ug/m^3	WCS_139	565683.53	4191658.36	105.41	1.50	581.00	
PERIOD		3.46643	ug/m^3	WCS_140	565683.53	4191678.36	106.14	1.50	581.00	
PERIOD		23.16631	ug/m^3	WCS_141	565703.53	4191618.36	105.14	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		9.39262	ug/m^3	WCS_142	565703.53	4191638.36	106.48	1.50	581.00	
PERIOD		5.26012	ug/m^3	WCS_143	565703.53	4191658.36	107.41	1.50	581.00	
PERIOD		3.37566	ug/m^3	WCS_144	565703.53	4191678.36	108.14	1.50	581.00	
PERIOD		2.32265	ug/m^3	WCS_145	565703.53	4191698.36	109.47	1.50	581.00	
PERIOD		9.52197	ug/m^3	WCS_146	565723.53	4191638.36	108.48	1.50	581.00	
PERIOD		5.08175	ug/m^3	WCS_147	565723.53	4191658.36	109.41	1.50	581.00	
PERIOD		3.21655	ug/m^3	WCS_148	565723.53	4191678.36	110.10	1.50	581.00	
PERIOD		5.32717	ug/m^3	R_001	565510.13	4191494.14	90.97	1.50	581.00	
PERIOD		5.04087	ug/m^3	R_002	565530.13	4191494.14	91.22	1.50	581.00	
PERIOD		7.48528	ug/m^3	R_003	565530.13	4191514.14	91.95	1.50	581.00	
PERIOD		4.76832	ug/m^3	R_004	565550.13	4191494.14	91.89	1.50	581.00	
PERIOD		6.94894	ug/m^3	R_005	565550.13	4191514.14	93.01	1.50	581.00	
PERIOD		4.22183	ug/m^3	R_006	565600.23	4191495.50	95.12	1.50	581.00	
PERIOD		3.97901	ug/m^3	R_007	565620.23	4191495.50	96.45	1.50	581.00	
PERIOD		5.57099	ug/m^3	R_008	565620.23	4191515.50	96.95	1.50	581.00	
PERIOD		8.45609	ug/m^3	R_009	565620.23	4191535.50	97.83	1.50	581.00	
PERIOD		15.15309	ug/m^3	R_010	565620.23	4191555.50	99.17	1.50	581.00	
PERIOD		3.74400	ug/m^3	R_011	565640.23	4191495.50	97.76	1.50	581.00	
PERIOD		5.20094	ug/m^3	R_012	565640.23	4191515.50	97.85	1.50	581.00	
PERIOD		7.76751	ug/m^3	R_013	565640.23	4191535.50	98.50	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		13.43609	ug/m^3	R_014	565640.23	4191555.50	99.83	1.50	581.00	
PERIOD		33.99724	ug/m^3	R_015	565640.23	4191575.50	100.53	1.50	581.00	
PERIOD		3.51540	ug/m^3	R_016	565660.23	4191495.50	99.09	1.50	581.00	
PERIOD		4.82552	ug/m^3	R_017	565660.23	4191515.50	99.48	1.50	581.00	
PERIOD		7.08660	ug/m^3	R_018	565660.23	4191535.50	100.12	1.50	581.00	
PERIOD		11.84117	ug/m^3	R_019	565660.23	4191555.50	101.08	1.50	581.00	
PERIOD		27.17923	ug/m^3	R_020	565660.23	4191575.50	101.76	1.50	581.00	
PERIOD		4.45841	ug/m^3	R_021	565680.23	4191515.50	101.17	1.50	581.00	
PERIOD		6.44849	ug/m^3	R_022	565680.23	4191535.50	101.76	1.50	581.00	
PERIOD		10.46862	ug/m^3	R_023	565680.23	4191555.50	102.42	1.50	581.00	
PERIOD		22.14314	ug/m^3	R_024	565680.23	4191575.50	103.09	1.50	581.00	
PERIOD		4.10938	ug/m^3	R_025	565700.23	4191515.50	102.75	1.50	581.00	
PERIOD		5.86932	ug/m^3	R_026	565700.23	4191535.50	103.09	1.50	581.00	
PERIOD		9.26883	ug/m^3	R_027	565700.23	4191555.50	103.76	1.50	581.00	
PERIOD		18.33292	ug/m^3	R_028	565700.23	4191575.50	104.42	1.50	581.00	
PERIOD		3.79001	ug/m^3	R_029	565720.23	4191515.50	104.12	1.50	581.00	
PERIOD		5.32762	ug/m^3	R_030	565720.23	4191535.50	104.42	1.50	581.00	
PERIOD		8.18957	ug/m^3	R_031	565720.23	4191555.50	105.09	1.50	581.00	
PERIOD		15.36815	ug/m^3	R_032	565720.23	4191575.50	105.76	1.50	581.00	
PERIOD		3.50001	ug/m^3	R_033	565740.23	4191515.50	105.45	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		4.83520	ug/m^3	R_034	565740.23	4191535.50	105.76	1.50	581.00	
PERIOD		7.21220	ug/m^3	R_035	565740.23	4191555.50	106.42	1.50	581.00	
PERIOD		12.81232	ug/m^3	R_036	565740.23	4191575.50	107.09	1.50	581.00	
PERIOD		28.97180	ug/m^3	R_037	565740.23	4191595.50	107.76	1.50	581.00	
PERIOD		3.89814	ug/m^3	R_038	565290.96	4191457.99	82.97	1.50	581.00	
PERIOD		3.91651	ug/m^3	R_039	565310.96	4191457.99	83.64	1.50	581.00	
PERIOD		6.36207	ug/m^3	R_040	565310.96	4191477.99	84.30	1.50	581.00	
PERIOD		3.88009	ug/m^3	R_041	565330.96	4191457.99	84.73	1.50	581.00	
PERIOD		0.29168	ug/m^3	HS_001	565318.13	4191253.10	79.05	1.50	581.00	
PERIOD		0.33265	ug/m^3	HS_002	565318.13	4191273.10	79.24	1.50	581.00	
PERIOD		0.29472	ug/m^3	HS_003	565338.13	4191253.10	79.71	1.50	581.00	
PERIOD		0.33831	ug/m^3	HS_004	565338.13	4191273.10	80.28	1.50	581.00	
PERIOD		0.39322	ug/m^3	HS_005	565338.13	4191293.10	80.69	1.50	581.00	
PERIOD		0.46455	ug/m^3	HS_006	565338.13	4191313.10	80.80	1.50	581.00	
PERIOD		0.29810	ug/m^3	HS_007	565358.13	4191253.10	80.43	1.50	581.00	
PERIOD		0.34368	ug/m^3	HS_008	565358.13	4191273.10	81.05	1.50	581.00	
PERIOD		0.40178	ug/m^3	HS_009	565358.13	4191293.10	81.49	1.50	581.00	
PERIOD		0.47827	ug/m^3	HS_010	565358.13	4191313.10	81.49	1.50	581.00	
PERIOD		0.30189	ug/m^3	HS_011	565378.13	4191253.10	81.30	1.50	581.00	
PERIOD		0.34948	ug/m^3	HS_012	565378.13	4191273.10	81.78	1.50	581.00	

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Sensitive Receptor Summary

Bancroft Parking Garage
Construction Health Risk Assessment

PM2.5 - Concentration - Source Group: OFF-FG

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.41107	ug/m^3	HS_013	565378.13	4191293.10	82.16	1.50	581.00	
PERIOD		0.49344	ug/m^3	HS_014	565378.13	4191313.10	82.16	1.50	581.00	
PERIOD		0.30622	ug/m^3	HS_015	565398.13	4191253.10	82.56	1.50	581.00	