Appendix B. Air Quality and Greenhouse Gas Modeling Files

Appendix B1. Construction and Operation Emission Summaries
Appendix B2. CalEEMod Output Files
Appendix B3. CT-EMFAC Output Files
Appendix B4. Health Risk Assessment and PM 2.5 Concentration Evaluation

Appendix B1. Construction and Operation Emission Summaries

Summary of Criteria Pollutants Emissions

Daily Construction Emissions - Unmitigated

		Average Daily Emissions (lb/day)						
	Construction Phase	**ROG**	**NOx**	**CO**	**PM_{10} Exhaust**	**PM10 dust**	**$PM_{2.5}$ Exhaust**	**PM2.5 Dust**
	Construction Year 2033	0.365	3.316	5.256	0.072	3.598	0.067	0.527
North Lot Construction	Construction Year 2034	5.222	4.615	8.340	0.084	3.108	0.078	0.432
	Construction Year 2037	1.445	13.532	18.242	0.322	11.999	0.302	1.834
	Construction Year 2038	1.076	9.376	15.412	0.234	5.525	0.219	0.909
	Construction Year 2039	21.827	7.211	12.215	0.113	3.644	0.105	0.644
Main Lot Construction HP	Construction Year 2040	4.396	0.985	1.723	0.010	0.423	0.010	0.081
	Construction Year 2037	1.208	11.240	15.907	0.255	12.511	0.240	1.785
	Construction Year 2038	1.006	8.346	14.585	0.211	5.142	0.197	0.814
	Construction Year 2039	21.824	7.042	12.124	0.111	3.421	0.103	0.610
Main Lot Construction ACP	Construction Year 2040	4.396	0.983	1.722	0.010	0.420	0.010	0.081
BAAQMD CEQA Thresholds		**54**	**54**	**NA**	**82**	**Best management practices**	**84**	**Best management practices**
Exceeding Threshold?		**No**	**No**	**NA**	**No**	**No**	**No**	**No**

Annual Construction Emissions - Unmitigated

		Annual Emissions (ton/year)						
	Construction Phase	**ROG**	**NOx**	**CO**	**PM_{10} Exhaust**	**PM10 dust**	**$PM_{2.5}$ Exhaust**	**PM2.5 Dust**
	Construction Year 2033	0.067	0.605	0.959	0.013	0.657	0.012	0.096
North Lot Construction	Construction Year 2034	0.953	0.842	1.522	0.015	0.567	0.014	0.079
	Construction Year 2037	0.264	2.470	3.329	0.059	2.190	0.055	0.335
	Construction Year 2038	0.196	1.711	2.813	0.043	1.008	0.040	0.166
	Construction Year 2039	3.983	1.316	2.229	0.021	0.665	0.019	0.118
Main Lot Construction HP	Construction Year 2040	0.802	0.180	0.314	0.002	0.077	0.002	0.015
	Construction Year 2041	0.220	2.051	2.903	0.047	2.283	0.044	0.326
	Construction Year 2042	0.184	1.523	2.662	0.038	0.938	0.036	0.149
	Construction Year 2043	3.983	1.285	2.213	0.020	0.624	0.019	0.111
Main Lot Construction ACP	Construction Year 2044	0.802	0.179	0.314	0.002	0.077	0.002	0.015

Annual Onsite Emissions - Unmitigated

		Annual Emissions (ton/year)						
	Construction Phase	**ROG**	**NOx**	**CO**	**PM_{10} Exhaust**	**PM10 dust**	**$PM_{2.5}$ Exhaust**	**PM2.5 Dust**
	Construction Year 2033	0.047	0.368	0.600	0.011	0.101	0.010	0.018
	Construction Year 2034	0.937	0.633	1.230	0.014	0.068	0.013	0.007
North Lot Construction	**Average Emissions**	**0.492**	**0.500**	**0.915**	**0.012**	**0.084**	**0.011**	**0.012**
	Construction Year 2037	0.230	1.434	2.423	0.047	0.187	0.043	0.052
	Construction Year 2038	0.170	1.114	2.186	0.035	0.102	0.033	0.011
	Construction Year 2039	3.960	1.012	1.753	0.018	0.112	0.016	0.013
Main Lot Construction HP	Construction Year 2040	0.799	0.154	0.248	0.002	0.017	0.002	0.002
	Average Emissions	**1.290**	**0.929**	**1.652**	**0.025**	**0.105**	**0.023**	**0.019**
	Construction Year 2037	0.193	1.109	2.130	0.035	0.185	0.033	0.051
	Construction Year 2038	0.160	1.026	2.111	0.032	0.101	0.030	0.011
	Construction Year 2039	3.960	1.012	1.752	0.018	0.112	0.016	0.013
Main Lot Construction ACP	Construction Year 2040	0.799	0.154	0.248	0.002	0.017	0.002	0.002
	Average Emissions	**1.278**	**0.825**	**1.560**	**0.022**	**0.103**	**0.020**	**0.019**

Daily Construction Emissions - Mitigated

		Average Daily Emissions (lb/day)						
	Construction Phase	**ROG**	**NOx**	**CO**	**PM_{10} Exhaust**	**PM10 dust**	**$PM_{2.5}$ Exhaust**	**PM2.5 Dust**
	Construction Year 2033	0.23	2.07	6.59	0.03	3.60	0.03	0.53
North Lot Construction	Construction Year 2034	5.05	2.62	10.27	0.04	3.11	0.04	0.43
	Construction Year 2037	0.892	9.951	26.088	0.164	11.999	0.162	1.834
	Construction Year 2038	0.648	6.504	21.070	0.115	5.525	0.113	0.909
	Construction Year 2039	21.630	5.603	17.472	0.068	3.644	0.067	0.644
Main Lot Construction HP	Construction Year 2040	4.377	0.816	2.556	0.008	0.423	0.008	0.081
	Construction Year 2037	0.769	8.788	22.966	0.149	12.511	0.147	1.785
	Construction Year 2038	0.608	5.772	20.022	0.105	5.142	0.103	0.814
	Construction Year 2039	21.628	5.434	17.381	0.066	3.421	0.065	0.610
Main Lot Construction ACP	Construction Year 2040	4.377	0.814	2.555	0.008	0.420	0.008	0.081
BAAQMD CEQA Thresholds		**54**	**54**	**NA**	**82**	**Best management practices**	**84**	**Best management practices**
Exceeding Threshold?		**No**	**No**	**NA**	**No**	**No**	**No**	**No**

Annual Construction Emissions - Mitigated

		Annual Emissions (ton/year)						
	Construction Phase	**ROG**	**NOx**	**CO**	**PM_{10} Exhaust**	**PM10 dust**	**$PM_{2.5}$ Exhaust**	**PM2.5 Dust**
	Construction Year 2033	0.042	0.378	1.202	0.006	0.657	0.006	0.096
North Lot Construction	Construction Year 2034	0.922	0.478	1.875	0.007	0.567	0.007	0.079
	Construction Year 2037	0.163	1.816	4.761	0.030	2.190	0.030	0.335
	Construction Year 2038	0.118	1.187	3.845	0.021	1.008	0.021	0.166
	Construction Year 2039	3.948	1.023	3.189	0.012	0.665	0.012	0.118
Main Lot Construction HP	Construction Year 2040	0.799	0.149	0.466	0.001	0.077	0.001	0.015
	Construction Year 2041	0.140	1.604	4.191	0.027	2.283	0.027	0.326
	Construction Year 2042	0.111	1.053	3.654	0.019	0.938	0.019	0.149
	Construction Year 2043	3.947	0.992	3.172	0.012	0.624	0.012	0.111
Main Lot Construction ACP	Construction Year 2044	0.799	0.149	0.466	0.001	0.077	0.001	0.015

Annual Onsite Emissions - Mitigated

		Annual Emissions (ton/year)						
	Construction Phase	**ROG**	**NOx**	**CO**	**PM_{10} Exhaust**	**PM10 dust**	**$PM_{2.5}$ Exhaust**	**PM2.5 Dust**
	Construction Year 2033	0.022	0.140	0.843	0.004	0.101	0.004	0.018
	Construction Year 2034	0.906	0.269	1.583	0.006	0.068	0.006	0.007
North Lot Construction	**Average Emissions**	**0.464**	**0.204**	**1.213**	**0.005**	**0.084**	**0.005**	**0.012**
	Construction Year 2037	0.129	0.780	3.855	0.018	0.187	0.017	0.052
	Construction Year 2038	0.092	0.590	3.218	0.014	0.102	0.013	0.011
	Construction Year 2039	3.924	0.719	2.712	0.009	0.112	0.009	0.013
Main Lot Construction HP	Construction Year 2040	0.795	0.123	0.400	0.001	0.017	0.001	0.002
	Average Emissions	**1.235**	**0.553**	**2.546**	**0.011**	**0.105**	**0.010**	**0.019**
	Construction Year 2037	0.113	0.661	3.418	0.016	0.185	0.016	0.051
	Construction Year 2038	0.088	0.556	3.103	0.013	0.101	0.013	0.011
	Construction Year 2039	3.924	0.718	2.712	0.009	0.112	0.009	0.013
Main Lot Construction ACP	Construction Year 2040	0.795	0.123	0.400	0.001	0.017	0.001	0.002
	Average Emissions	**1.230**	**0.515**	**2.408**	**0.010**	**0.103**	**0.010**	**0.019**

Operation Emissions - Total from Vehicle Trips

General	ROG	NOx	CO	PM10	PM2.5	ROG	NOx	CO	PM10	PM2.5
	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	ton/year	ton/year	ton/year	ton/year	ton/year
2025	4.56	6.74	81.54	14.26	2.51	0.82	1.22	14.76	2.58	0.45
2035 No Build	7.01	7.31	122.12	31.07	5.35	1.27	1.32	22.10	5.62	0.97
2035 Alt1	5.62	5.16	106.14	30.48	5.20	1.02	0.93	19.21	5.52	0.94
2035 Alt2	6.70	7.03	116.71	29.76	5.13	1.21	1.27	21.12	5.39	0.93
2035 Alt3	5.23	4.80	98.33	28.43	4.86	0.95	0.87	17.80	5.15	0.88
2050 No Build	18.39	16.88	347.82	99.65	17.00	3.33	3.06	62.96	18.04	3.08
2050 Alt1	14.01	12.86	265.00	75.92	12.95	2.54	2.33	47.97	13.74	2.34
2050 Alt2	12.07	11.09	226.74	65.72	11.24	2.18	2.01	41.04	11.90	2.03
2050 Alt3	12.32	11.32	232.10	66.96	11.44	2.23	2.05	42.01	12.12	2.07

Operation Emissions - Total from Ferry Operation

General	ROG	NOx	CO	PM10	PM2.5	ROG	NOx	CO	PM10	PM2.5
	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	ton/year	ton/year	ton/year	ton/year	ton/year
2025	313.88	2165.74	2667.94	125.55	125.55	56.81	392.00	482.90	22.72	22.72
2035 No Build	28.12	261.14	749.28	1.00	1.00	5.09	47.27	135.62	0.18	0.18
2035 Alt1	28.12	261.14	749.28	1.00	1.00	5.09	47.27	135.62	0.18	0.18
2035 Alt2	28.12	261.14	749.28	1.00	1.00	5.09	47.27	135.62	0.18	0.18
2035 Alt3	28.12	261.14	749.28	1.00	1.00	5.09	47.27	135.62	0.18	0.18
2050 No Build	28.12	261.14	749.28	1.00	1.00	5.09	47.27	135.62	0.18	0.18
2050 Alt1	47.63	442.26	1268.95	1.70	1.70	8.62	80.05	229.68	0.31	0.31
2050 Alt2	47.63	442.26	1268.95	1.70	1.70	8.62	80.05	229.68	0.31	0.31
2050 Alt3	47.63	442.26	1268.95	1.70	1.70	8.62	80.05	229.68	0.31	0.31

Total Operation Emissions

General	ROG	NOx	CO	PM10	PM2.5	ROG	NOx	CO	PM10	PM2.5
	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	ton/year	ton/year	ton/year	ton/year	ton/year
2025	318.43	2172.48	2749.48	139.81	128.06	57.64	393.22	497.66	25.31	23.18
2035 No Build	35.13	268.46	871.40	32.07	6.36	6.36	48.59	157.72	5.80	1.15
2035 Alt1	33.74	266.30	855.42	31.49	6.21	6.11	48.20	154.83	5.70	1.12
2035 Alt2	34.83	268.18	865.99	30.76	6.14	6.30	48.54	156.74	5.57	1.11
2035 Alt3	33.35	265.95	847.61	29.44	5.86	6.04	48.14	153.42	5.33	1.06
2050 No Build	46.51	278.02	1097.10	100.65	18.01	8.42	50.32	198.58	18.22	3.26
2050 Alt1	61.64	455.12	1533.95	77.62	14.65	11.16	82.38	277.64	14.05	2.65
2050 Alt2	59.69	453.35	1495.68	67.42	12.94	10.80	82.06	270.72	12.20	2.34
2050 Alt3	59.95	453.58	1501.04	68.66	13.14	10.85	82.10	271.69	12.43	2.38

Net Change of Operation Emissions

General	ROG	NOx	CO	PM10	PM2.5
	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
2035 No Build	-283.30	-1904.02	-1878.08	-107.74	-121.70
2035 Alt1	-284.69	-1906.17	-1894.06	-108.33	-121.85
2035 Alt2	-283.60	-1904.30	-1883.49	-109.05	-121.93
2035 Alt3	-285.08	-1906.53	-1901.87	-110.37	-122.20
2050 No Build	-271.92	-1894.45	-1652.38	-39.16	-110.06
2050 Alt1	-256.79	-1717.36	-1215.53	-62.19	-113.41
2050 Alt2	-258.74	-1719.13	-1253.80	-72.39	-115.12
2050 Alt3	-258.48	-1718.90	-1248.44	-71.15	-114.92
BAAQMD CEQA Thresholds	**54**	**54**	**NA**	**82**	**54**
Exceeding Threshold?	**No**	**No**	**No**	**No**	**No**

Summary of GHG Emissions

Direct GHG Emissions - Construction

		CO2	CH4	N2O	CO2e
		metric tons/year	metric tons/year	metric tons/year	metric tons/year
	Construction Year 2033	388.38	0.02	0.03	396.94
	Construction Year 2034	479.33	0.02	0.03	488.36
North Lot Construction	Sub Total	*867.71*	*0.04*	*0.05*	*885.30*
	Construction Year 2037	1757.90	0.08	0.14	1802.82
	Construction Year 2038	1297.67	0.05	0.09	1327.12
	Construction Year 2039	894.12	0.03	0.05	910.83
	Construction Year 2040	114.22	0.00	0.00	115.81
Main Lot Construction HP	*Sub Total*	*4063.91*	*0.17*	*0.29*	*4156.57*
	Construction Year 2037	1486.52	0.08	0.12	1524.83
	Construction Year 2038	1149.84	0.05	0.08	1173.99
	Construction Year 2039	863.58	0.03	0.05	878.90
Main Lot Construction ACP	Construction Year 2040	113.85	0.00	0.00	115.42
	Sub Total	*3613.78*	*0.15*	*0.25*	*3693.13*
Total Construction with Main Lot HP		**4931.61**	**0.21**	**0.35**	**5041.87**
Total Construction with Main Lot ACP		**4481.49**	**0.20**	**0.31**	**4578.43**

Operation GHG - Direct GHG Emissions - Vehicle Trips

	CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
	metric tons/day	metric tons/day	metric tons/day	metric tons/day	metric tons/year	metric tons/year	metric tons/year	metric tons/year
2025	14.6	0.00	0.1	14.7	5,290.7	1.8	31.8	5,337.1
2035 No Build	26.2	0.01	0.1	26.4	9,487.1	2.5	46.3	9,544.1
2035 Alt1	24.0	0.00	0.1	24.1	8,682.7	1.6	38.3	8,724.8
2035 Alt2	25.1	0.01	0.1	25.2	9,076.4	2.4	44.6	9,131.1
2050 No Build	78.5	0.01	0.3	78.9	28,430.7	5.3	125.0	28,567.9
2050 Alt1	59.8	0.01	0.3	60.1	21,661.1	4.1	95.2	21,765.7
2050 Alt2	51.4	0.01	0.2	51.6	18,604.6	3.5	83.5	18,696.3

Operation GHG - Direct GHG Emissions - Ferry Trips

	CO2	CH4	N2O	CO2e
	metric tons/year	metric tons/year	metric tons/year	metric tons/year
2025	33,967.8	21.7	0.6	34,724.1
2035 No Build	21,374.5	13.6	0.4	21,850.4
2035 Alt1	21,374.5	13.6	0.4	21,850.4
2035 Alt2	21,374.5	13.6	0.4	21,850.4
2050 No Build	21,374.5	13.6	0.4	21,850.4
2050 Alt1	36,198.7	23.1	0.6	37,004.7
2050 Alt2	36,198.7	23.1	0.6	37,004.7

Indirect GHG Emissions from Energy Consumption of Parking Structures

	CO2	CH4	N2O	CO2e
Emission Factors (lb/Mwh)	203.983	0.033	0.004	206.0
North Structure Electricity Consumptions (metric tons/year)	60.515	0.010	0.001	61.103
Main Structure Electricity Consumptions (metric tons/year) Alt 1 Alt 3	285.754	0.046	0.006	288.533
Main Structure Electricity Consumptions (metric tons/year) Alt 2	233.434	0.038	0.005	235.704
Total Energy Emissions (metric tons/year) Alt1, Alt 3	**346.269**	**0.056**	**0.007**	**349.636**
Total Energy Emissions (metric tons/year) Alt2	**293.949**	**0.048**	**0.006**	**296.808**

Note:

Energy Consumption

North Structure	654,025	kwh/year	248,868	SF
Main Structure Alt 1	3,088,339	kwh/year	1,175,167	SF
Main Structure Alt 2	2,522,880	kwh/year	960,000	SF

Energy consumption rates are obtained from CalEEMod default for Bay Area:

2.628 kwh/SF

	CO2	CH4	N2O
GWP	1	28	265

Total GHG Emissions

		CO2	CH4	N2O	CO2e
		metric tons/year	metric tons/year	metric tons/year	metric tons/year
Construction	North Lot	867.7	0.0	0.1	885.3
	Main Lot with HP	4,063.9	0.2	0.3	4,156.6
	Main Lot with ACP	3,613.8	0.2	0.3	3,693.1
Operation	2025	39,258.6	23.5	32.4	40,061.2
	2035 No Build	30,861.6	16.1	46.7	31,394.5
	2035 Alt1	30,403.4	15.3	38.7	30,924.8
	2035 Alt2	30,744.8	16.1	44.9	31,278.3
	2050 No Build	49,805.2	19.0	125.3	50,418.3
	2050 Alt1	58,153.8	27.2	95.8	59,067.1
	2050 Alt2	55,097.3	26.6	84.1	55,997.8
Net Change from 2025 Existing Condition	2035 No Build	-8,396.9	-7.4	14.3	-8,666.8
	2035 Alt1	-4,791.2	-8.0	6.6	-4,979.9
	2035 Alt2	-8,513.8	-7.4	12.5	-8,782.9
	2050 No Build	10,546.6	-4.5	93.0	10,357.1
	2050 Alt1	18,895.2	3.7	63.5	19,005.9
	2050 Alt2	15,838.7	3.1	51.7	15,936.6
Net Change Compared to No Build	2035 No Build	NA	NA	NA	NA
	2035 Alt1	-458.2	-0.8	-8.0	-469.7
	2035 Alt2	-116.8	-0.1	-1.8	-116.1
	2050 No Build	NA	NA	NA	NA
	2050 Alt1	8,348.6	8.2	-29.5	8,648.8
	2050 Alt2	5,292.1	7.6	-41.2	5,579.5

Ferry Emissions

Total Daily crossings with large event Special Service and operating hours

	Min. Crossing per day	Max. crossing per day	Average Crossing (per day)	Hours per Crossing	Hours docking/Maneuvering	Hours per day	Average engine load
Existing	50	74	62	0.58	0.17	46.5	42%
No Build, Alt 1, 2, and 3 in 2035	48	76	62	0.58	0.17	46.5	42%
No Build 2050	48	76	62	0.58	0.17	46.5	42%
Alt 1,2, 3 in 2050	90	120	105	0.58	0.17	78.75	42%

Note:
Annual operating hours were estimated based on 362 days per year.
Engine load factors were based on EPA default load factors for harbor craft https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P1014J1S.pdf

Emission Calculations

Rating	7290	hp	(Assumed the same average HP for both No Build and Alternatives 1,2, and 3)
Days of operation	362		

Existing

	POC	NOx	CO	PM10	PM2.5	CO2	CH4	N2O	CO2e
Engine Emission Factor (g/hp-hr)	1.00	6.90	8.50	0.40	0.40	659.07	0.42	0.01	673.74
Emissions per hour (lb/hr)	6.75	46.58	57.38	2.70	2.70	4,448.70	2.84	0.07	4,547.75
No Build emissions per day (lb/day)	313.88	2,165.74	2,667.94	125.55	125.55	206,864.52	131.90	3.44	211,470.44
No Build 1 emissions per year (ton/year)	56.81	392.00	482.90	22.72	22.72	37,442.48	23.87	0.62	38,276.15

Note: Emission factors assumed that the engines are Tier 1 on average.

No Build and Alt 1, 2, 3 2035

	POC	NOx	CO	PM10	PM2.5	CO2	CH4	N2O	CO2e
Engine Emission Factor (g/hp-hr)	0.14	1.30	3.73	0.01	0.01	648.00	0.41	0.01	662.43
Emissions per hour (lb/hr)	0.95	8.78	25.18	0.03	0.03	4,374.02	2.79	0.07	4,471.41
No Build emissions per day with anticipated fuel usage reduction (lb/day)	28.12	261.14	749.28	1.00	1.00	130,170.86	83.00	2.17	133,069.17
No Build 1 emissions per year with anticipated fuel usage reduction (ton/year)	5.09	47.27	135.62	0.18	0.18	23,560.93	15.02	0.39	24,085.52

Note: Emission factors assumed that the engines are Marine Engine Tier 4 with DPF

No Build 2050

	POC	NOx	CO	PM10	PM2.5	CO2	CH4	N2O	CO2e
Engine Emission Factor (g/hp-hr)	0.14	1.30	3.73	0.01	0.01	648.00	0.41	0.01	662.43
Emissions per hour (lb/hr)	0.95	8.78	25.18	0.03	0.03	4,374.02	2.79	0.07	4,471.41
No Build emissions per day with anticipated fuel usage reduction (lb/day)	28.12	261.14	749.28	1.00	1.00	130,170.86	83.00	2.17	133,069.17
No Build 1 emissions per year with anticipated fuel usage reduction (ton/year)	5.09	47.27	135.62	0.18	0.18	23,560.93	15.02	0.39	24,085.52

Note: Emission factors assumed that the engines are Marine Engine Tier 4 with DPF

Alternatives 1, 2, 3 2050

	POC	NOx	CO	PM10	PM2.5	CO2	CH4	N2O	CO2e
Engine Emission Factor (g/hp-hr)	0.14	1.30	3.73	0.01	0.01	648.00	0.41	0.01	662.43
Emissions per hour (lb/hr)	0.95	8.78	25.18	0.03	0.03	4,374.02	2.79	0.07	4,471.41
Alt 1,2,3 emissions per day with anticipated fuel usage reduction (lb/day)	47.63	442.26	1,268.95	1.70	1.70	220,450.65	140.56	3.67	225,359.08
Alt 1,2,3 emissions per year with anticipated fuel usage reduction (ton/year)	8.62	80.05	229.68	0.31	0.31	39,901.57	25.44	0.66	40,789.99

Note: Emission factors assumed that the engines are Marine Engine Tier 4 with DPF

Note
diesel density (lb/gal) 7.08 (SDS of No. 2 Diesel Fuel, bulk density)

	new engines 2035 and 2050		Existing Engines	
diesel	3230	g/gallon	3230	g/gallon
fuel consumption	205	g/kwh	208.5	g/kwh
	462.68	gallons/hr	470.58	gallons/hr
	0.0635	gallons/hp-hr	0.0646	gallons/hp-hr
Fuel Consumption scaling factor for improved operation efficiency	0.64		1	
Hourly fuel consumption	124	gallons/hr	198	gallons/hr

Note: Fuel consumption scaling factor represent the fuel usage reduction due to improved ship design and engine performance. It is anticipated that the fuel consumption by the ferries will be reduced by 30%.

GWP

CO2	1
CH4	28
N2O	265

Source: IPCC AR5.

GHG Emission Factors Post 2035

CO2	CH4	N2O	CO2e
kg/gallon Diesel	g/gallon Diesel	g/gallon Diesel	g/gallon Diesel
10.21	6.51	0.17	10437.33
g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr
648.003	0.413	0.011	662.431

GHG Emission Factors Tier 1 for Existing Condition

CO2	CH4	N2O	CO2e
kg/gallon Diesel	g/gallon Diesel	g/gallon Diesel	g/gallon Diesel
10.21	6.51	0.17	10437.33
g/hp-hr	g/hp-hr	g/hp-hr	g/hp-hr
659.067	0.420	0.011	673.741

Ferry Emissions - Daily

General	ROG	NOx	CO	PM10	PM2.5	**CO2**	CH4	N2O	CO2e
	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day
2025	313.875	2165.738	2667.938	125.550	125.550	206,864.52	131.90	3.44	211,470.44
2035 No Build	28.123	261.144	749.282	1.004	1.004	130,170.86	83.00	2.17	133,069.17
2035 Alt1	28.123	261.144	749.282	1.004	1.004	130,170.86	83.00	2.17	133,069.17
2035 Alt2	28.123	261.144	749.282	1.004	1.004	130,170.86	83.00	2.17	133,069.17
2035 Alt3	28.123	261.144	749.282	1.004	1.004	130,170.86	83.00	2.17	133,069.17
2050 No Build	28.123	261.144	749.282	1.004	1.004	130,170.86	83.00	2.17	133,069.17
2050 Alt1	47.628	442.260	1268.946	1.701	1.701	220,450.65	140.56	3.67	225,359.08
2050 Alt2	47.628	442.260	1268.946	1.701	1.701	220,450.65	140.56	3.67	225,359.08
2050 Alt3	47.628	442.260	1268.946	1.701	1.701	220,450.65	140.56	3.67	225,359.08

Ferry Emissions - Annual

General	ROG	NOx	CO	PM10	PM2.5	CO2	CH4	N2O	CO2e
	ton/year	ton/year	ton/year	ton/year	ton/year	metric ton/year	metric ton/year	metric ton/year	metric ton/year
2025	56.811	391.998	482.897	22.725	22.725	33,967.82	21.66	0.57	34,724.12
2035 No Build	5.090	47.267	135.620	0.182	0.182	21,374.47	13.63	0.36	21,850.38
2035 Alt1	5.090	47.267	135.620	0.182	0.182	21,374.47	13.63	0.36	21,850.38
2035 Alt2	5.090	47.267	135.620	0.182	0.182	21,374.47	13.63	0.36	21,850.38
2035 Alt3	5.090	47.267	135.620	0.182	0.182	21,374.47	13.63	0.36	21,850.38
2050 No Build	5.090	47.267	135.620	0.182	0.182	21,374.47	13.63	0.36	21,850.38
2050 Alt1	8.621	80.049	229.679	0.308	0.308	36,198.70	23.08	0.60	37,004.68
2050 Alt2	8.621	80.049	229.679	0.308	0.308	36,198.70	23.08	0.60	37,004.68
2050 Alt3	8.621	80.049	229.679	0.308	0.308	36,198.70	23.08	0.60	37,004.68

Vehicle Trips Emissions

Daily Trips & VMT

	Daily VMT	Daily VMT Transit	Total Daily VMT
2025	52,032	0	52,032
2035 No Build	112,121	195	112,316
2035 Alt1	109,956	195	110,151
2035 Alt2	107,100	286	107,386
2035 Alt3	101,796	459	102,255
2050 No Build	360,512	195	360,707
2050 Alt1	274,456	364	274,820
2050 Alt2	234,552	1,406	235,958
2050 Alt3	240,240	960	241,200

Note: Non-ferry driving trips refer to the unmet demand due to ferry capacity or parking constraints, and it's assumed 100% of these riders would drive to San Francisco.

VMT Distribution

Freeway	Arterial	Local
53%	40%	7%

Vehicle Emissions

General	ROG	NOx	CO	PM10	PM2.5	
	pounds/day	pounds/day	pounds/day	pounds/day	pounds/day	
2025	4.557	6.739	81.543	14.263	2.511	
2035 No Build	7.007	7.311	122.122	31.067	5.354	
2035 Alt1	5.619	5.159	106.142	30.481	5.203	
2035 Alt2	6.705	7.035	116.705	29.756	5.131	
2035 Alt3	5.226	4.802	98.328	28.434	4.859	
2050 No Build	18.391	16.879	347.821	99.650	17.002	
2050 Alt1	14.012	12.860	265.001	75.923	12.954	
2050 Alt2	12.065	11.090	226.736	65.719	11.235	
2050 Alt3	12.319	11.317	232.098	66.962	11.439	

Emissions are modeled using CT-EMFAC

CT-EMFAC Input

	Total Trip Distance (for EMFAC) Miles	Trip Distance Freeway (meters)	Trip Distance Arterial (meters)	Trip Distance local (meters)	# trips (for EMFAC)	Truck1 %
2025	9.6	8188.32	6179.87	1081.48	5420	0.00%
2035 No Build	10.2	8700.09	6566.11	1149.07	11011	0.17%
2035 Alt1	10.2	8700.09	6566.11	1149.07	10799	0.18%
2035 Alt2	10.2	8700.09	6566.11	1149.07	10528	0.27%
2035 Alt3	10.2	8700.09	6566.11	1149.07	10025	0.45%
2050 No Build	11.6	9894.22	7467.34	1306.78	31095	0.05%
2050 Alt1	11.6	9894.22	7467.34	1306.78	23691	0.13%
2050 Alt2	11.6	9894.22	7467.34	1306.78	20341	0.60%
2050 Alt3	11.6	9894.22	7467.34	1306.78	20793	0.40%

1609.34 meters/miles

Appendix B2. CalEEMod Output Files

Larkspur North Construction unmtg and mtg Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Larkspur North Construction unmtg and mtg
Construction Start Date	3/1/2033
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.90000
Precipitation (days)	7.60000
Location	Larkspur Ferry Terminal, Larkspur, CA 94939, USA
County	Marin
City	Larkspur
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	905
EDFZ	2
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.45

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
Unenclosed Parking Structure	1.02000	Acre	1.02000	248,868	0.00000	0.00000	—	—

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.	28.7791	28.1719	20.6581	39.3804	0.10886	0.37144	10.6796	11.0510	0.34419	1.60801	1.95220	—	13,278.8	13,278.8	0.52992	0.69519	9.35400	13,508.5
Mit.	27.7474	27.3967	12.3176	50.0677	0.10889	0.18697	10.6796	10.8666	0.18402	1.60801	1.79203	—	13,281.6	13,281.6	0.53003	0.69521	9.35400	13,511.4
% Reduced	4%	3%	40%	-27%	—	50%	—	2%	47%	—	8%	—	> -0.5%	> -0.5%	—	—	—	> -0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Unmit.	1.32910	0.97545	9.08236	14.6418	0.04604	0.19432	9.11823	9.31255	0.18122	1.34335	1.49589	—	6,377.87	6,377.87	0.32237	0.43788	0.15784	6,516.57
Mit.	0.86340	0.61555	5.51552	18.2397	0.04605	0.08622	9.11823	9.20445	0.08491	1.34335	1.40121	—	6,378.33	6,378.33	0.32239	0.43788	0.15784	6,517.04
% Reduced	35%	37%	39%	-25%	—	56%	—	1%	53%	—	6%	—	> -0.5%	> -0.5%	—	—	—	> -0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.36529	5.22237	4.61469	8.34032	0.02361	0.08373	3.59771	3.66957	0.07774	0.52703	0.59404	—	2,894.96	2,894.96	0.12595	0.16948	0.99181	2,949.53
Mit.	5.14283	5.05421	2.61917	10.2722	0.02361	0.04049	3.59771	3.62906	0.03986	0.52703	0.55790	—	2,895.16	2,895.16	0.12596	0.16948	0.99181	2,949.73
% Reduced	4%	3%	43%	-23%	—	52%	—	1%	49%	—	6%	—	> -0.5%	> -0.5%	—	—	—	> -0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.97916	0.95308	0.84218	1.52211	0.00431	0.01528	0.65658	0.66970	0.01419	0.09618	0.10841	—	479.293	479.293	0.02085	0.02806	0.16421	488.329
Mit.	0.93857	0.92239	0.47800	1.87467	0.00431	0.00739	0.65658	0.66230	0.00728	0.09618	0.10182	—	479.327	479.327	0.02085	0.02806	0.16421	488.362
% Reduced	4%	3%	43%	-23%	—	52%	—	1%	49%	—	6%	—	> -0.5%	> -0.5%	> -0.5%	—	—	> -0.5%

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	1.34880	0.98874	8.86473	15.2725	0.04604	0.19432	9.11823	9.31255	0.18122	1.31467	1.49589	—	6,463.36	6,463.36	0.32060	0.43658	6.07402	6,607.55
2034	28.7791	28.1719	20.6581	39.3804	0.10886	0.37144	10.6796	11.0510	0.34419	1.60801	1.95220	—	13,278.8	13,278.8	0.52992	0.69519	9.35400	13,508.5
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	1.32910	0.97545	9.08236	14.6418	0.04604	0.19432	9.11823	9.31255	0.18122	1.34335	1.49589	—	6,377.87	6,377.87	0.32237	0.43788	0.15784	6,516.57
2034	0.81675	0.59161	6.05617	9.81615	0.03119	0.12665	6.43340	6.56005	0.11806	0.82905	0.94711	—	4,046.24	4,046.24	0.21006	0.28027	0.08074	4,135.09
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.49521	0.36453	3.31648	5.25578	0.01658	0.07186	3.59771	3.66957	0.06701	0.52703	0.59404	—	2,345.68	2,345.68	0.11800	0.16029	0.99181	2,397.39
2034	5.36529	5.22237	4.61469	8.34032	0.02361	0.08373	3.10756	3.19129	0.07774	0.43211	0.50985	—	2,894.96	2,894.96	0.12595	0.16948	0.92180	2,949.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.09038	0.06653	0.60526	0.95918	0.00303	0.01311	0.65658	0.66970	0.01223	0.09618	0.10841	—	388.354	388.354	0.01954	0.02654	0.16421	396.915
2034	0.97916	0.95308	0.84218	1.52211	0.00431	0.01528	0.56713	0.58241	0.01419	0.07886	0.09305	—	479.293	479.293	0.02085	0.02806	0.15261	488.329

2.2.2. Onsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.83290	0.69576	5.46178	9.48776	0.02295	0.16422	1.07369	1.13712	0.15112	0.24972	0.31437	—	2,452.13	2,452.13	0.10169	0.02572	0.05076	2,462.39

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2034	28.1411	27.7752	16.3604	31.6478	0.06687	0.34102	1.05984	1.40086	0.31377	0.12542	0.43919	—	6,957.40	6,957.40	0.28324	0.06907	0.13912	6,985.21
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.83260	0.69559	5.46498	9.48879	0.02295	0.16422	1.62510	1.74615	0.15112	0.33354	0.44494	—	2,452.18	2,452.18	0.10169	0.02576	0.00147	2,462.40
2034	0.54571	0.45536	3.87660	7.10451	0.01643	0.10776	0.75033	0.85809	0.09918	0.07632	0.17550	—	1,771.84	1,771.84	0.07420	0.01940	0.00085	1,779.47
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.30659	0.25538	2.01390	3.28651	0.00823	0.06084	0.55173	0.61257	0.05599	0.09626	0.15226	—	878.467	878.467	0.03699	0.01047	0.01203	882.524
2034	5.21210	5.13521	3.46824	6.74208	0.01375	0.07510	0.37343	0.44853	0.06911	0.03946	0.10857	—	1,437.82	1,437.82	0.05925	0.01524	0.01394	1,443.86
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.05595	0.04661	0.36754	0.59979	0.00150	0.01110	0.10069	0.11179	0.01022	0.01757	0.02779	—	145.440	145.440	0.00612	0.00173	0.00199	146.112
2034	0.95121	0.93718	0.63295	1.23043	0.00251	0.01371	0.06815	0.08186	0.01261	0.00720	0.01981	—	238.048	238.048	0.00981	0.00252	0.00231	239.047

2.2.3. Offsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.51589	0.29298	3.40295	5.78470	0.02309	0.03011	8.20725	8.23736	0.03011	1.15142	1.18153	—	4,011.23	4,011.23	0.21892	0.41086	6.02326	4,145.16
2034	0.63801	0.39674	4.29769	7.73267	0.04200	0.03042	9.61976	9.65019	0.03042	1.48259	1.51302	—	6,321.36	6,321.36	0.24668	0.62612	9.21488	6,523.33
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2033	0.49650	0.27985	3.61737	5.15299	0.02309	0.03011	8.20725	8.23736	0.03011	1.15142	1.18153	—	3,925.68	3,925.68	0.22068	0.41212	0.15652	4,054.17
2034	0.27104	0.13625	2.17957	2.71164	0.01475	0.01889	5.68307	5.70196	0.01889	0.75273	0.77162	—	2,274.41	2,274.41	0.13586	0.26086	0.07988	2,355.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.18863	0.10915	1.30258	1.96927	0.00834	0.01102	3.04598	3.05700	0.01102	0.43076	0.44179	—	1,467.21	1,467.21	0.08101	0.14982	0.97978	1,514.86
2034	0.15318	0.08716	1.14646	1.59824	0.00986	0.00863	2.73413	2.74276	0.00863	0.39264	0.40127	—	1,457.13	1,457.13	0.06671	0.15424	0.90787	1,505.67
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.03442	0.01992	0.23772	0.35939	0.00152	0.00201	0.55589	0.55790	0.00201	0.07861	0.08063	—	242.914	242.914	0.01341	0.02480	0.16221	250.803
2034	0.02796	0.01591	0.20923	0.29168	0.00180	0.00158	0.49898	0.50055	0.00158	0.07166	0.07323	—	241.245	241.245	0.01104	0.02554	0.15031	249.281

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.88310	0.62884	5.29790	18.8704	0.04605	0.08622	9.11823	9.20445	0.08491	1.31467	1.39958	—	6,463.82	6,463.82	0.32062	0.43658	6.07402	6,608.01
2034	27.7474	27.3967	12.3176	50.0677	0.10889	0.18697	10.6796	10.8666	0.18402	1.60801	1.79203	—	13,281.6	13,281.6	0.53003	0.69521	9.35400	13,511.4
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.86340	0.61555	5.51552	18.2397	0.04605	0.08622	9.11823	9.20445	0.08491	1.34335	1.40121	—	6,378.33	6,378.33	0.32239	0.43788	0.15784	6,517.04
2034	0.48828	0.33989	3.29248	12.4092	0.03119	0.05571	6.43340	6.48910	0.05523	0.82905	0.88427	—	4,046.26	4,046.26	0.21006	0.28027	0.08074	4,135.11

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.32266	0.23068	2.06920	6.58642	0.01658	0.03134	3.59771	3.62906	0.03088	0.52703	0.55790	—	2,345.84	2,345.84	0.11801	0.16029	0.99181	2,397.55
2034	5.14283	5.05421	2.61917	10.2722	0.02361	0.04049	3.10756	3.14805	0.03986	0.43211	0.47197	—	2,895.16	2,895.16	0.12596	0.16948	0.92180	2,949.73
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.05889	0.04210	0.37763	1.20202	0.00303	0.00572	0.65658	0.66230	0.00564	0.09618	0.10182	—	388.381	388.381	0.01954	0.02654	0.16421	396.941
2034	0.93857	0.92239	0.47800	1.87467	0.00431	0.00739	0.56713	0.57452	0.00728	0.07886	0.08613	—	479.327	479.327	0.02085	0.02806	0.15261	488.362

2.2.5. Onsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.36720	0.33587	1.89495	13.0857	0.02296	0.05611	1.07369	1.08629	0.05481	0.24972	0.26212	—	2,452.59	2,452.59	0.10170	0.02572	0.05076	2,462.85
2034	27.1094	26.9999	8.01992	42.3350	0.06689	0.15655	1.05984	1.21639	0.15360	0.12542	0.27902	—	6,960.21	6,960.21	0.28336	0.06910	0.13912	6,988.03
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.36690	0.33570	2.59507	13.0867	0.02296	0.05611	1.62510	1.66338	0.05481	0.33354	0.37145	—	2,452.65	2,452.65	0.10170	0.02576	0.00147	2,462.87
2034	0.21725	0.20363	1.11291	9.69761	0.01643	0.03682	0.75033	0.78714	0.03634	0.07632	0.11266	—	1,771.85	1,771.85	0.07420	0.01940	0.00085	1,779.49
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.13404	0.12153	0.76662	4.61714	0.00824	0.02032	0.55173	0.57205	0.01985	0.09626	0.11612	—	878.629	878.629	0.03700	0.01047	0.01203	882.686
2034	4.98965	4.96705	1.47271	8.67393	0.01375	0.03186	0.37343	0.40529	0.03123	0.03946	0.07070	—	1,438.02	1,438.02	0.05925	0.01524	0.01394	1,444.06

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.02446	0.02218	0.13991	0.84263	0.00150	0.00371	0.10069	0.10440	0.00362	0.01757	0.02119	—	145.467	145.467	0.00613	0.00173	0.00199	146.139
2034	0.91061	0.90649	0.26877	1.58299	0.00251	0.00581	0.06815	0.07397	0.00570	0.00720	0.01290	—	238.081	238.081	0.00981	0.00252	0.00231	239.081

2.2.6. Offsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.51589	0.29298	3.40295	5.78470	0.02309	0.03011	8.20725	8.23736	0.03011	1.15142	1.18153	—	4,011.23	4,011.23	0.21892	0.41086	6.02326	4,145.16
2034	0.63801	0.39674	4.29769	7.73267	0.04200	0.03042	9.61976	9.65019	0.03042	1.48259	1.51302	—	6,321.36	6,321.36	0.24668	0.62612	9.21488	6,523.33
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.49650	0.27985	3.61737	5.15299	0.02309	0.03011	8.20725	8.23736	0.03011	1.15142	1.18153	—	3,925.68	3,925.68	0.22068	0.41212	0.15652	4,054.17
2034	0.27104	0.13625	2.17957	2.71164	0.01475	0.01889	5.68307	5.70196	0.01889	0.75273	0.77162	—	2,274.41	2,274.41	0.13586	0.26086	0.07988	2,355.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.18863	0.10915	1.30258	1.96927	0.00834	0.01102	3.04598	3.05700	0.01102	0.43076	0.44179	—	1,467.21	1,467.21	0.08101	0.14982	0.97978	1,514.86
2034	0.15318	0.08716	1.14646	1.59824	0.00986	0.00863	2.73413	2.74276	0.00863	0.39264	0.40127	—	1,457.13	1,457.13	0.06671	0.15424	0.90787	1,505.67
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.03442	0.01992	0.23772	0.35939	0.00152	0.00201	0.55589	0.55790	0.00201	0.07861	0.08063	—	242.914	242.914	0.01341	0.02480	0.16221	250.803
2034	0.02796	0.01591	0.20923	0.29168	0.00180	0.00158	0.49898	0.50055	0.00158	0.07166	0.07323	—	241.245	241.245	0.01104	0.02554	0.15031	249.281

3. Construction Emissions Details

3.1. Phase 1 Site Prep (2033)

3.1.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29042	0.24356	2.67855	2.37803	0.00872	0.05762	—	0.05762	0.05301	—	0.05301	—	927.034	927.034	0.03760	0.00752	—	930.216
Demolition	—	—	—	—	—	—	0.54793	0.54793	—	0.08297	0.08297	—	—	—	—	—	—	—
Onsite truck	0.00052	0.00032	0.00919	0.00536	0.00010	0.00000	0.00348	0.00348	0.00000	0.00084	0.00084	—	10.1442	10.1442	0.00020	0.00117	0.00044	10.4984
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01194	0.01001	0.11008	0.09773	0.00036	0.00237	—	0.00237	0.00218	—	0.00218	—	38.0973	38.0973	0.00155	0.00031	—	38.2280
Demolition	—	—	—	—	—	—	0.02252	0.02252	—	0.00341	0.00341	—	—	—	—	—	—	—
Onsite truck	0.00002	0.00001	0.00037	0.00021	< 0.000005	0.00000	0.00014	0.00014	0.00000	0.00003	0.00003	—	0.41672	0.41672	0.00001	0.00005	0.00030	0.43156

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00218	0.00183	0.02009	0.01784	0.00007	0.00043	—	0.00043	0.00040	—	0.00040	—	6.30744	6.30744	0.00026	0.00005	—	6.32909
Demolition	—	—	—	—	—	—	0.00411	0.00411	—	0.00062	0.00062	—	—	—	—	—	—	—
Onsite truck	< 0.000005	< 0.000005	0.00007	0.00004	< 0.000005	0.00000	0.00003	0.00003	0.00000	0.00001	0.00001	—	0.06899	0.06899	< 0.000005	0.00001	0.00005	0.07145

3.1.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10759	0.10494	0.11023	1.53706	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	595.010	595.010	0.00529	0.00265	0.03149	595.962
Vendor	0.00815	0.00444	0.17815	0.07037	0.00309	0.00000	0.10817	0.10817	0.00000	0.02627	0.02627	—	304.988	304.988	0.00370	0.03445	0.01377	315.359
Hauling	0.09630	0.02201	1.09871	0.70343	0.00596	0.01101	3.17440	3.18540	0.01101	0.35628	0.36728	—	755.154	755.154	0.07383	0.12106	0.02313	793.098
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00435	0.00428	0.00446	0.06262	0.00000	0.00000	0.02889	0.02889	0.00000	0.00677	0.00677	—	24.5585	24.5585	0.00022	0.00011	0.02151	24.6179
Vendor	0.00034	0.00019	0.00717	0.00283	0.00013	0.00000	0.00443	0.00443	0.00000	0.00107	0.00107	—	12.5327	12.5327	0.00015	0.00142	0.00941	12.9677
Hauling	0.00401	0.00092	0.04440	0.02874	0.00024	0.00045	0.12790	0.12836	0.00045	0.01438	0.01483	—	31.0225	31.0225	0.00303	0.00498	0.01585	32.5968

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00079	0.00078	0.00081	0.01143	0.00000	0.00000	0.00527	0.00527	0.00000	0.00124	0.00124	—	4.06595	4.06595	0.00004	0.00002	0.00356	4.07577
Vendor	0.00006	0.00004	0.00131	0.00052	0.00002	0.00000	0.00081	0.00081	0.00000	0.00020	0.00020	—	2.07493	2.07493	0.00003	0.00023	0.00156	2.14696
Hauling	0.00073	0.00017	0.00810	0.00524	0.00004	0.00008	0.02334	0.02343	0.00008	0.00262	0.00271	—	5.13613	5.13613	0.00050	0.00082	0.00262	5.39677

3.1.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11815	0.11221	2.00257	4.80836	0.00872	0.02568	—	0.02568	0.02551	—	0.02551	—	926.904	926.904	0.03760	0.00752	—	930.085
Demolition	—	—	—	—	—	—	0.54793	0.54793	—	0.08297	0.08297	—	—	—	—	—	—	—
Onsite truck	0.00052	0.00032	0.00919	0.00536	0.00010	0.00000	0.00348	0.00348	0.00000	0.00084	0.00084	—	10.1442	10.1442	0.00020	0.00117	0.00044	10.4984
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00486	0.00461	0.08230	0.19760	0.00036	0.00106	—	0.00106	0.00105	—	0.00105	—	38.0920	38.0920	0.00155	0.00031	—	38.2227
Demolition	—	—	—	—	—	—	0.02252	0.02252	—	0.00341	0.00341	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00002	0.00001	0.00037	0.00021	< 0.00005	0.00000	0.00014	0.00014	0.00000	0.00003	0.00003	—	0.41672	0.41672	0.00001	0.00005	0.00030	0.43156
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00089	0.00084	0.01502	0.03606	0.00007	0.00019	—	0.00019	0.00019	—	0.00019	—	6.30656	6.30656	0.00026	0.00005	—	6.32820
Demolition	—	—	—	—	—	—	0.00411	0.00411	—	0.00062	0.00062	—	—	—	—	—	—	—
Onsite truck	< 0.00005	< 0.00005	0.00007	0.00004	< 0.00005	0.00000	0.00003	0.00003	0.00000	0.00001	0.00001	—	0.06899	0.06899	< 0.00005	0.00001	0.00005	0.07145

3.1.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10759	0.10494	0.11023	1.53706	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	595.010	595.010	0.00529	0.00265	0.03149	595.962
Vendor	0.00815	0.00444	0.17815	0.07037	0.00309	0.00000	0.10817	0.10817	0.00000	0.02627	0.02627	—	304.988	304.988	0.00370	0.03445	0.01377	315.359
Hauling	0.09630	0.02201	1.09871	0.70343	0.00596	0.01101	3.17440	3.18540	0.01101	0.35628	0.36728	—	755.154	755.154	0.07383	0.12106	0.02313	793.098
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00435	0.00428	0.00446	0.06262	0.00000	0.00000	0.02889	0.02889	0.00000	0.00677	0.00677	—	24.5585	24.5585	0.00022	0.00011	0.02151	24.6179
Vendor	0.00034	0.00019	0.00717	0.00283	0.00013	0.00000	0.00443	0.00443	0.00000	0.00107	0.00107	—	12.5327	12.5327	0.00015	0.00142	0.00941	12.9677

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00401	0.00092	0.04440	0.02874	0.00024	0.00045	0.12790	0.12836	0.00045	0.01438	0.01483	—	31.0225	31.0225	0.00303	0.00498	0.01585	32.5968
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00079	0.00078	0.00081	0.01143	0.00000	0.00000	0.00527	0.00527	0.00000	0.00124	0.00124	—	4.06595	4.06595	0.00004	0.00002	0.00356	4.07577
Vendor	0.00006	0.00004	0.00131	0.00052	0.00002	0.00000	0.00081	0.00081	0.00000	0.00020	0.00020	—	2.07493	2.07493	0.00003	0.00023	0.00156	2.14696
Hauling	0.00073	0.00017	0.00810	0.00524	0.00004	0.00008	0.02334	0.02343	0.00008	0.00262	0.00271	—	5.13613	5.13613	0.00050	0.00082	0.00262	5.39677

3.2. Phase 2 Earthwork (2033)

3.2.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27536	0.23084	1.64814	1.95910	0.00534	0.06298	—	0.06298	0.05794	—	0.05794	—	559.602	559.602	0.02270	0.00454	—	561.523
Dust From Material Movement	—	—	—	—	—	—	0.32298	0.32298	—	0.17331	0.17331	—	—	—	—	—	—	—
Onsite truck	0.00015	0.00008	0.00194	0.00110	0.00002	0.00000	0.00077	0.00077	0.00000	0.00019	0.00019	—	2.25271	2.25271	0.00004	0.00026	0.00378	2.33511
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.27536	0.23084	1.64814	1.95910	0.00534	0.06298	—	0.06298	0.05794	—	0.05794	—	559.602	559.602	0.02270	0.00454	—	561.523
Dust From Material Movement	—	—	—	—	—	—	0.32298	0.32298	—	0.17331	0.17331	—	—	—	—	—	—	—
Onsite truck	0.00011	0.00007	0.00204	0.00119	0.00002	0.00000	0.00077	0.00077	0.00000	0.00019	0.00019	—	2.25426	2.25426	0.00004	0.00026	0.00010	2.33299
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02640	0.02214	0.15804	0.18786	0.00051	0.00604	—	0.00604	0.00556	—	0.00556	—	53.6605	53.6605	0.00218	0.00044	—	53.8446
Dust From Material Movement	—	—	—	—	—	—	0.03097	0.03097	—	0.01662	0.01662	—	—	—	—	—	—	—
Onsite truck	0.00001	0.00001	0.00019	0.00011	< 0.000005	0.00000	0.00007	0.00007	0.00000	0.00002	0.00002	—	0.21607	0.21607	< 0.000005	0.00002	0.00016	0.22377
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00482	0.00404	0.02884	0.03428	0.00009	0.00110	—	0.00110	0.00101	—	0.00101	—	8.88411	8.88411	0.00036	0.00007	—	8.91459
Dust From Material Movement	—	—	—	—	—	—	0.00565	0.00565	—	0.00303	0.00303	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	< 0.000005	< 0.000005	0.00003	0.00002	< 0.000005	0.00000	0.00001	0.00001	0.00000	< 0.000005	< 0.000005	—	0.03577	0.03577	< 0.000005	< 0.000005	0.00003	0.03705

3.2.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11111	0.10935	0.08466	1.86247	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	638.468	638.468	0.00441	0.00265	1.21375	640.581
Vendor	0.00287	0.00117	0.04195	0.01756	0.00077	0.00000	0.02704	0.02704	0.00000	0.00657	0.00657	—	76.2366	76.2366	0.00093	0.00861	0.13241	78.9583
Hauling	0.07973	0.01900	0.85098	0.56595	0.00484	0.00894	2.57920	2.58814	0.00894	0.28947	0.29842	—	613.181	613.181	0.05999	0.09799	0.72246	644.604
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10759	0.10494	0.11023	1.53706	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	595.010	595.010	0.00529	0.00265	0.03149	595.962
Vendor	0.00204	0.00111	0.04454	0.01759	0.00077	0.00000	0.02704	0.02704	0.00000	0.00657	0.00657	—	76.2469	76.2469	0.00093	0.00861	0.00344	78.8396
Hauling	0.07824	0.01788	0.89270	0.57154	0.00484	0.00894	2.57920	2.58814	0.00894	0.28947	0.29842	—	613.562	613.562	0.05999	0.09836	0.01880	644.392
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01015	0.00998	0.01040	0.14612	0.00000	0.00000	0.06742	0.06742	0.00000	0.01580	0.01580	—	57.3033	57.3033	0.00051	0.00025	0.05018	57.4417
Vendor	0.00020	0.00011	0.00418	0.00165	0.00007	0.00000	0.00258	0.00258	0.00000	0.00063	0.00063	—	7.31073	7.31073	0.00009	0.00083	0.00549	7.56451
Hauling	0.00761	0.00175	0.08417	0.05448	0.00046	0.00086	0.24249	0.24334	0.00086	0.02727	0.02812	—	58.8135	58.8135	0.00575	0.00943	0.03004	61.7981
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00185	0.00182	0.00190	0.02667	0.00000	0.00000	0.01230	0.01230	0.00000	0.00288	0.00288	—	9.48721	9.48721	0.00008	0.00004	0.00831	9.51013

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00004	0.00002	0.00076	0.00030	0.00001	0.00000	0.00047	0.00047	0.00000	0.00011	0.00011	—	1.21038	1.21038	0.00001	0.00014	0.00091	1.25239
Hauling	0.00139	0.00032	0.01536	0.00994	0.00008	0.00016	0.04425	0.04441	0.00016	0.00498	0.00513	—	9.73725	9.73725	0.00095	0.00156	0.00497	10.2314

3.2.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08745	0.08066	0.52131	2.90242	0.00534	0.01216	—	0.01216	0.01196	—	0.01196	—	559.602	559.602	0.02270	0.00454	—	561.523
Dust From Material Movement	—	—	—	—	—	—	0.32298	0.32298	—	0.17331	0.17331	—	—	—	—	—	—	—
Onsite truck	0.00015	0.00008	0.00194	0.00110	0.00002	0.00000	0.00077	0.00077	0.00000	0.00019	0.00019	—	2.25271	2.25271	0.00004	0.00026	0.00378	2.33511
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08745	0.08066	0.52131	2.90242	0.00534	0.01216	—	0.01216	0.01196	—	0.01196	—	559.602	559.602	0.02270	0.00454	—	561.523
Dust From Material Movement	—	—	—	—	—	—	0.32298	0.32298	—	0.17331	0.17331	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00011	0.00007	0.00204	0.00119	0.00002	0.00000	0.00077	0.00077	0.00000	0.00019	0.00019	—	2.25426	2.25426	0.00004	0.00026	0.00010	2.33299
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00839	0.00773	0.04999	0.27831	0.00051	0.00117	—	0.00117	0.00115	—	0.00115	—	53.6605	53.6605	0.00218	0.00044	—	53.8446
Dust From Material Movement	—	—	—	—	—	—	0.03097	0.03097	—	0.01662	0.01662	—	—	—	—	—	—	—
Onsite truck	0.00001	0.00001	0.00019	0.00011	< 0.000005	0.00000	0.00007	0.00007	0.00000	0.00002	0.00002	—	0.21607	0.21607	< 0.000005	0.00002	0.00016	0.22377
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00153	0.00141	0.00912	0.05079	0.00009	0.00021	—	0.00021	0.00021	—	0.00021	—	8.88411	8.88411	0.00036	0.00007	—	8.91459
Dust From Material Movement	—	—	—	—	—	—	0.00565	0.00565	—	0.00303	0.00303	—	—	—	—	—	—	—
Onsite truck	< 0.000005	< 0.000005	0.00003	0.00002	< 0.000005	0.00000	0.00001	0.00001	0.00000	< 0.000005	< 0.000005	—	0.03577	0.03577	< 0.000005	< 0.000005	0.00003	0.03705

3.2.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11111	0.10935	0.08466	1.86247	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	638.468	638.468	0.00441	0.00265	1.21375	640.581
Vendor	0.00287	0.00117	0.04195	0.01756	0.00077	0.00000	0.02704	0.02704	0.00000	0.00657	0.00657	—	76.2366	76.2366	0.00093	0.00861	0.13241	78.9583
Hauling	0.07973	0.01900	0.85098	0.56595	0.00484	0.00894	2.57920	2.58814	0.00894	0.28947	0.29842	—	613.181	613.181	0.05999	0.09799	0.72246	644.604
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10759	0.10494	0.11023	1.53706	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	595.010	595.010	0.00529	0.00265	0.03149	595.962
Vendor	0.00204	0.00111	0.04454	0.01759	0.00077	0.00000	0.02704	0.02704	0.00000	0.00657	0.00657	—	76.2469	76.2469	0.00093	0.00861	0.00344	78.8396
Hauling	0.07824	0.01788	0.89270	0.57154	0.00484	0.00894	2.57920	2.58814	0.00894	0.28947	0.29842	—	613.562	613.562	0.05999	0.09836	0.01880	644.392
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01015	0.00998	0.01040	0.14612	0.00000	0.00000	0.06742	0.06742	0.00000	0.01580	0.01580	—	57.3033	57.3033	0.00051	0.00025	0.05018	57.4417
Vendor	0.00020	0.00011	0.00418	0.00165	0.00007	0.00000	0.00258	0.00258	0.00000	0.00063	0.00063	—	7.31073	7.31073	0.00009	0.00083	0.00549	7.56451
Hauling	0.00761	0.00175	0.08417	0.05448	0.00046	0.00086	0.24249	0.24334	0.00086	0.02727	0.02812	—	58.8135	58.8135	0.00575	0.00943	0.03004	61.7981
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00185	0.00182	0.00190	0.02667	0.00000	0.00000	0.01230	0.01230	0.00000	0.00288	0.00288	—	9.48721	9.48721	0.00008	0.00004	0.00831	9.51013
Vendor	0.00004	0.00002	0.00076	0.00030	0.00001	0.00000	0.00047	0.00047	0.00000	0.00011	0.00011	—	1.21038	1.21038	0.00001	0.00014	0.00091	1.25239
Hauling	0.00139	0.00032	0.01536	0.00994	0.00008	0.00016	0.04425	0.04441	0.00016	0.00498	0.00513	—	9.73725	9.73725	0.00095	0.00156	0.00497	10.2314

3.3. Phase 3 Foundation (2033)

3.3.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27703	0.23204	1.46686	2.36979	0.00644	0.05030	—	0.05030	0.04627	—	0.04627	—	671.593	671.593	0.02724	0.00545	—	673.898
Dust From Material Movement	—	—	—	—	—	—	0.15795	0.15795	—	0.08627	0.08627	—	—	—	—	—	—	—
Onsite truck	0.00051	0.00028	0.00677	0.00384	0.00008	0.00000	0.00270	0.00270	0.00000	0.00066	0.00066	—	7.88447	7.88447	0.00015	0.00091	0.01324	8.17290
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27703	0.23204	1.46686	2.36979	0.00644	0.05030	—	0.05030	0.04627	—	0.04627	—	671.593	671.593	0.02724	0.00545	—	673.898
Dust From Material Movement	—	—	—	—	—	—	0.15795	0.15795	—	0.08627	0.08627	—	—	—	—	—	—	—
Onsite truck	0.00040	0.00025	0.00715	0.00417	0.00008	0.00000	0.00270	0.00270	0.00000	0.00066	0.00066	—	7.88992	7.88992	0.00015	0.00091	0.00034	8.16545
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.10019	0.08392	0.53048	0.85702	0.00233	0.01819	—	0.01819	0.01673	—	0.01673	—	242.877	242.877	0.00985	0.00197	—	243.711
Dust From Material Movement	—	—	—	—	—	—	0.05712	0.05712	—	0.03120	0.03120	—	—	—	—	—	—	—
Onsite truck	0.00015	0.00010	0.00253	0.00143	0.00003	0.00000	0.00097	0.00097	0.00000	0.00024	0.00024	—	2.85218	2.85218	0.00006	0.00033	0.00207	2.95378
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01828	0.01531	0.09681	0.15641	0.00043	0.00332	—	0.00332	0.00305	—	0.00305	—	40.2111	40.2111	0.00163	0.00033	—	40.3491
Dust From Material Movement	—	—	—	—	—	—	0.01042	0.01042	—	0.00569	0.00569	—	—	—	—	—	—	—
Onsite truck	0.00003	0.00002	0.00046	0.00026	0.00001	0.00000	0.00018	0.00018	0.00000	0.00004	0.00004	—	0.47221	0.47221	0.00001	0.00005	0.00034	0.48903

3.3.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11111	0.10935	0.08466	1.86247	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	638.468	638.468	0.00441	0.00265	1.21375	640.581
Vendor	0.00841	0.00343	0.12284	0.05143	0.00226	0.00000	0.07920	0.07920	0.00000	0.01923	0.01923	—	223.264	223.264	0.00271	0.02522	0.38777	231.235

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.10002	0.02384	1.06750	0.70995	0.00608	0.01122	1.73844	1.74966	0.01122	0.21385	0.22506	—	769.197	769.197	0.07525	0.12292	0.90629	808.615
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10759	0.10494	0.11023	1.53706	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	595.010	595.010	0.00529	0.00265	0.03149	595.962
Vendor	0.00597	0.00325	0.13043	0.05152	0.00226	0.00000	0.07920	0.07920	0.00000	0.01923	0.01923	—	223.294	223.294	0.00271	0.02522	0.01008	230.888
Hauling	0.09815	0.02243	1.11984	0.71696	0.00608	0.01122	1.73844	1.74966	0.01122	0.21385	0.22506	—	769.676	769.676	0.07525	0.12339	0.02358	808.350
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03827	0.03763	0.03923	0.55109	0.00000	0.00000	0.25427	0.25427	0.00000	0.05958	0.05958	—	216.115	216.115	0.00191	0.00096	0.18926	216.637
Vendor	0.00219	0.00124	0.04619	0.01821	0.00082	0.00000	0.02851	0.02851	0.00000	0.00692	0.00692	—	80.7463	80.7463	0.00098	0.00912	0.06065	83.5493
Hauling	0.03600	0.00828	0.39822	0.25776	0.00220	0.00406	0.61710	0.62116	0.00406	0.07613	0.08019	—	278.248	278.248	0.02721	0.04462	0.14212	292.368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00698	0.00687	0.00716	0.10057	0.00000	0.00000	0.04640	0.04640	0.00000	0.01087	0.01087	—	35.7803	35.7803	0.00032	0.00016	0.03133	35.8668
Vendor	0.00040	0.00023	0.00843	0.00332	0.00015	0.00000	0.00520	0.00520	0.00000	0.00126	0.00126	—	13.3685	13.3685	0.00016	0.00151	0.01004	13.8325
Hauling	0.00657	0.00151	0.07268	0.04704	0.00040	0.00074	0.11262	0.11336	0.00074	0.01389	0.01463	—	46.0671	46.0671	0.00451	0.00739	0.02353	48.4049

3.3.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.14824	0.13097	0.76801	3.38268	0.00645	0.01873	—	0.01873	0.01795	—	0.01795	—	672.038	672.038	0.02726	0.00545	—	674.344
Dust From Material Movement	—	—	—	—	—	—	0.15795	0.15795	—	0.08627	0.08627	—	—	—	—	—	—	—
Onsite truck	0.00051	0.00028	0.00677	0.00384	0.00008	0.00000	0.00270	0.00270	0.00000	0.00066	0.00066	—	7.88447	7.88447	0.00015	0.00091	0.01324	8.17290
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14824	0.13097	0.76801	3.38268	0.00645	0.01873	—	0.01873	0.01795	—	0.01795	—	672.038	672.038	0.02726	0.00545	—	674.344
Dust From Material Movement	—	—	—	—	—	—	0.15795	0.15795	—	0.08627	0.08627	—	—	—	—	—	—	—
Onsite truck	0.00040	0.00025	0.00715	0.00417	0.00008	0.00000	0.00270	0.00270	0.00000	0.00066	0.00066	—	7.88992	7.88992	0.00015	0.00091	0.00034	8.16545
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05361	0.04736	0.27775	1.22332	0.00233	0.00678	—	0.00678	0.00649	—	0.00649	—	243.038	243.038	0.00986	0.00197	—	243.872
Dust From Material Movement	—	—	—	—	—	—	0.05712	0.05712	—	0.03120	0.03120	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00015	0.00010	0.00253	0.00143	0.00003	0.00000	0.00097	0.00097	0.00000	0.00024	0.00024	—	2.85218	2.85218	0.00006	0.00033	0.00207	2.95378
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00978	0.00864	0.05069	0.22326	0.00043	0.00124	—	0.00124	0.00118	—	0.00118	—	40.2378	40.2378	0.00163	0.00033	—	40.3759
Dust From Material Movement	—	—	—	—	—	—	0.01042	0.01042	—	0.00569	0.00569	—	—	—	—	—	—	—
Onsite truck	0.00003	0.00002	0.00046	0.00026	0.00001	0.00000	0.00018	0.00018	0.00000	0.00004	0.00004	—	0.47221	0.47221	0.00001	0.00005	0.00034	0.48903

3.3.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11111	0.10935	0.08466	1.86247	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	638.468	638.468	0.00441	0.00265	1.21375	640.581
Vendor	0.00841	0.00343	0.12284	0.05143	0.00226	0.00000	0.07920	0.07920	0.00000	0.01923	0.01923	—	223.264	223.264	0.00271	0.02522	0.38777	231.235
Hauling	0.10002	0.02384	1.06750	0.70995	0.00608	0.01122	1.73844	1.74966	0.01122	0.21385	0.22506	—	769.197	769.197	0.07525	0.12292	0.90629	808.615
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10759	0.10494	0.11023	1.53706	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	595.010	595.010	0.00529	0.00265	0.03149	595.962
Vendor	0.00597	0.00325	0.13043	0.05152	0.00226	0.00000	0.07920	0.07920	0.00000	0.01923	0.01923	—	223.294	223.294	0.00271	0.02522	0.01008	230.888

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.09815	0.02243	1.11984	0.71696	0.00608	0.01122	1.73844	1.74966	0.01122	0.21385	0.22506	—	769.676	769.676	0.07525	0.12339	0.02358	808.350
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03827	0.03763	0.03923	0.55109	0.00000	0.00000	0.25427	0.25427	0.00000	0.05958	0.05958	—	216.115	216.115	0.00191	0.00096	0.18926	216.637
Vendor	0.00219	0.00124	0.04619	0.01821	0.00082	0.00000	0.02851	0.02851	0.00000	0.00692	0.00692	—	80.7463	80.7463	0.00098	0.00912	0.06065	83.5493
Hauling	0.03600	0.00828	0.39822	0.25776	0.00220	0.00406	0.61710	0.62116	0.00406	0.07613	0.08019	—	278.248	278.248	0.02721	0.04462	0.14212	292.368
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00698	0.00687	0.00716	0.10057	0.00000	0.00000	0.04640	0.04640	0.00000	0.01087	0.01087	—	35.7803	35.7803	0.00032	0.00016	0.03133	35.8668
Vendor	0.00040	0.00023	0.00843	0.00332	0.00015	0.00000	0.00520	0.00520	0.00000	0.00126	0.00126	—	13.3685	13.3685	0.00016	0.00151	0.01004	13.8325
Hauling	0.00657	0.00151	0.07268	0.04704	0.00040	0.00074	0.11262	0.11336	0.00074	0.01389	0.01463	—	46.0671	46.0671	0.00451	0.00739	0.02353	48.4049

3.4. Phase 4 Super Structureng Construction (2033)

3.4.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54987	0.46177	3.92999	7.07376	0.01616	0.11348	—	0.11348	0.10440	—	0.10440	—	1,739.53	1,739.53	0.07056	0.01411	—	1,745.50
Onsite truck	0.00007	0.00004	0.00097	0.00055	0.00001	0.00000	0.00039	0.00039	0.00000	0.00009	0.00009	—	1.12635	1.12635	0.00002	0.00013	0.00189	1.16756

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54987	0.46177	3.92999	7.07376	0.01616	0.11348	—	0.11348	0.10440	—	0.10440	—	1,739.53	1,739.53	0.07056	0.01411	—	1,745.50
Onsite truck	0.00006	0.00004	0.00102	0.00060	0.00001	0.00000	0.00039	0.00039	0.00000	0.00009	0.00009	—	1.12713	1.12713	0.00002	0.00013	0.00005	1.16649
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16464	0.13826	1.17669	2.11798	0.00484	0.03398	—	0.03398	0.03126	—	0.03126	—	520.838	520.838	0.02113	0.00423	—	522.625
Onsite truck	0.00002	0.00001	0.00030	0.00017	< 0.000005	0.00000	0.00012	0.00012	0.00000	0.00003	0.00003	—	0.33734	0.33734	0.00001	0.00004	0.00024	0.34936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03005	0.02523	0.21475	0.38653	0.00088	0.00620	—	0.00620	0.00570	—	0.00570	—	86.2306	86.2306	0.00350	0.00070	—	86.5265
Onsite truck	< 0.000005	< 0.000005	0.00005	0.00003	< 0.000005	0.00000	0.00002	0.00002	0.00000	0.00001	0.00001	—	0.05585	0.05585	< 0.000005	0.00001	0.00004	0.05784

3.4.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11111	0.10935	0.08466	1.86247	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	638.468	638.468	0.00441	0.00265	1.21375	640.581

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.01681	0.00687	0.24568	0.10286	0.00452	0.00000	0.15840	0.15840	0.00000	0.03847	0.03847	—	446.529	446.529	0.00542	0.05044	0.77554	462.470
Hauling	0.16843	0.04014	1.79762	1.19553	0.01023	0.01889	4.81814	4.83703	0.01889	0.54865	0.56754	—	1,295.30	1,295.30	0.12672	0.20699	1.52615	1,361.68
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10759	0.10494	0.11023	1.53706	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	595.010	595.010	0.00529	0.00265	0.03149	595.962
Vendor	0.01193	0.00651	0.26086	0.10304	0.00452	0.00000	0.15840	0.15840	0.00000	0.03847	0.03847	—	446.589	446.589	0.00542	0.05044	0.02016	461.775
Hauling	0.16528	0.03778	1.88577	1.20734	0.01023	0.01889	4.81814	4.83703	0.01889	0.54865	0.56754	—	1,296.10	1,296.10	0.12672	0.20778	0.03971	1,361.23
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03168	0.03116	0.03248	0.45626	0.00000	0.00000	0.21051	0.21051	0.00000	0.04933	0.04933	—	178.927	178.927	0.00158	0.00079	0.15669	179.359
Vendor	0.00363	0.00206	0.07648	0.03015	0.00135	0.00000	0.04721	0.04721	0.00000	0.01147	0.01147	—	133.703	133.703	0.00162	0.01510	0.10043	138.345
Hauling	0.05019	0.01155	0.55520	0.35937	0.00306	0.00566	1.41466	1.42031	0.00566	0.16142	0.16707	—	387.931	387.931	0.03794	0.06221	0.19815	407.617
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00578	0.00569	0.00593	0.08327	0.00000	0.00000	0.03842	0.03842	0.00000	0.00900	0.00900	—	29.6233	29.6233	0.00026	0.00013	0.02594	29.6949
Vendor	0.00066	0.00038	0.01396	0.00550	0.00025	0.00000	0.00862	0.00862	0.00000	0.00209	0.00209	—	22.1361	22.1361	0.00027	0.00250	0.01663	22.9045
Hauling	0.00916	0.00211	0.10132	0.06559	0.00056	0.00103	0.25818	0.25921	0.00103	0.02946	0.03049	—	64.2263	64.2263	0.00628	0.01030	0.03281	67.4856

3.4.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.21296	0.20295	1.06201	9.65883	0.01616	0.03694	—	0.03694	0.03642	—	0.03642	—	1,739.55	1,739.55	0.07056	0.01411	—	1,745.52
Onsite truck	0.00007	0.00004	0.00097	0.00055	0.00001	0.00000	0.00039	0.00039	0.00000	0.00009	0.00009	—	1.12635	1.12635	0.00002	0.00013	0.00189	1.16756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21296	0.20295	1.06201	9.65883	0.01616	0.03694	—	0.03694	0.03642	—	0.03642	—	1,739.55	1,739.55	0.07056	0.01411	—	1,745.52
Onsite truck	0.00006	0.00004	0.00102	0.00060	0.00001	0.00000	0.00039	0.00039	0.00000	0.00009	0.00009	—	1.12713	1.12713	0.00002	0.00013	0.00005	1.16649
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06376	0.06077	0.31798	2.89198	0.00484	0.01106	—	0.01106	0.01090	—	0.01090	—	520.844	520.844	0.02113	0.00423	—	522.631
Onsite truck	0.00002	0.00001	0.00030	0.00017	< 0.000005	0.00000	0.00012	0.00012	0.00000	0.00003	0.00003	—	0.33734	0.33734	0.00001	0.00004	0.00024	0.34936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01164	0.01109	0.05803	0.52779	0.00088	0.00202	—	0.00202	0.00199	—	0.00199	—	86.2316	86.2316	0.00350	0.00070	—	86.5275
Onsite truck	< 0.000005	< 0.000005	0.00005	0.00003	< 0.000005	0.00000	0.00002	0.00002	0.00000	0.00001	0.00001	—	0.05585	0.05585	< 0.000005	0.00001	0.00004	0.05784

3.4.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11111	0.10935	0.08466	1.86247	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	638.468	638.468	0.00441	0.00265	1.21375	640.581
Vendor	0.01681	0.00687	0.24568	0.10286	0.00452	0.00000	0.15840	0.15840	0.00000	0.03847	0.03847	—	446.529	446.529	0.00542	0.05044	0.77554	462.470
Hauling	0.16843	0.04014	1.79762	1.19553	0.01023	0.01889	4.81814	4.83703	0.01889	0.54865	0.56754	—	1,295.30	1,295.30	0.12672	0.20699	1.52615	1,361.68
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10759	0.10494	0.11023	1.53706	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	595.010	595.010	0.00529	0.00265	0.03149	595.962
Vendor	0.01193	0.00651	0.26086	0.10304	0.00452	0.00000	0.15840	0.15840	0.00000	0.03847	0.03847	—	446.589	446.589	0.00542	0.05044	0.02016	461.775
Hauling	0.16528	0.03778	1.88577	1.20734	0.01023	0.01889	4.81814	4.83703	0.01889	0.54865	0.56754	—	1,296.10	1,296.10	0.12672	0.20778	0.03971	1,361.23
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03168	0.03116	0.03248	0.45626	0.00000	0.00000	0.21051	0.21051	0.00000	0.04933	0.04933	—	178.927	178.927	0.00158	0.00079	0.15669	179.359
Vendor	0.00363	0.00206	0.07648	0.03015	0.00135	0.00000	0.04721	0.04721	0.00000	0.01147	0.01147	—	133.703	133.703	0.00162	0.01510	0.10043	138.345
Hauling	0.05019	0.01155	0.55520	0.35937	0.00306	0.00566	1.41466	1.42031	0.00566	0.16142	0.16707	—	387.931	387.931	0.03794	0.06221	0.19815	407.617
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00578	0.00569	0.00593	0.08327	0.00000	0.00000	0.03842	0.03842	0.00000	0.00900	0.00900	—	29.6233	29.6233	0.00026	0.00013	0.02594	29.6949
Vendor	0.00066	0.00038	0.01396	0.00550	0.00025	0.00000	0.00862	0.00862	0.00000	0.00209	0.00209	—	22.1361	22.1361	0.00027	0.00250	0.01663	22.9045
Hauling	0.00916	0.00211	0.10132	0.06559	0.00056	0.00103	0.25818	0.25921	0.00103	0.02946	0.03049	—	64.2263	64.2263	0.00628	0.01030	0.03281	67.4856

3.5. Phase 4 Super Structureng Construction (2034)

3.5.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54067	0.45405	3.81709	7.06461	0.01616	0.10732	—	0.10732	0.09873	—	0.09873	—	1,739.53	1,739.53	0.07056	0.01411	—	1,745.50
Onsite truck	0.00006	0.00004	0.00090	0.00052	0.00001	0.00000	0.00039	0.00039	0.00000	0.00009	0.00009	—	1.07311	1.07311	0.00002	0.00013	0.00169	1.11411
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54067	0.45405	3.81709	7.06461	0.01616	0.10732	—	0.10732	0.09873	—	0.09873	—	1,739.53	1,739.53	0.07056	0.01411	—	1,745.50
Onsite truck	0.00006	0.00004	0.00095	0.00057	0.00001	0.00000	0.00039	0.00039	0.00000	0.00009	0.00009	—	1.07395	1.07395	0.00002	0.00013	0.00004	1.11331
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22537	0.18926	1.59108	2.94474	0.00674	0.04473	—	0.04473	0.04116	—	0.04116	—	725.089	725.089	0.02941	0.00588	—	727.577
Onsite truck	0.00002	0.00001	0.00039	0.00023	< 0.000005	0.00000	0.00016	0.00016	0.00000	0.00004	0.00004	—	0.44745	0.44745	0.00001	0.00005	0.00030	0.46414
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04113	0.03454	0.29037	0.53742	0.00123	0.00816	—	0.00816	0.00751	—	0.00751	—	120.047	120.047	0.00487	0.00097	—	120.459

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	< 0.00005	< 0.00005	0.00007	0.00004	< 0.00005	0.00000	0.00003	0.00003	0.00000	0.00001	0.00001	—	0.07408	0.07408	< 0.00005	0.00001	0.00005	0.07684

3.5.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10494	0.10318	0.08378	1.78574	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	630.553	630.553	0.00441	0.00265	1.05297	632.504
Vendor	0.01211	0.00669	0.22182	0.09292	0.00452	0.00000	0.15840	0.15840	0.00000	0.03847	0.03847	—	424.812	424.812	0.00542	0.05044	0.69153	440.669
Hauling	0.15820	0.03069	1.73466	1.14909	0.01023	0.01889	4.81814	4.83703	0.01889	0.54865	0.56754	—	1,261.03	1,261.03	0.12593	0.20699	1.33572	1,327.20
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10406	0.10141	0.10935	1.45505	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	587.656	587.656	0.00529	0.00265	0.02727	588.604
Vendor	0.01193	0.00651	0.23718	0.09726	0.00452	0.00000	0.15840	0.15840	0.00000	0.03847	0.03847	—	424.877	424.877	0.00542	0.05044	0.01790	440.061
Hauling	0.15505	0.02833	1.83304	1.15933	0.01023	0.01889	4.81814	4.83703	0.01889	0.54865	0.56754	—	1,261.87	1,261.87	0.12514	0.20778	0.03471	1,326.95
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04227	0.04154	0.03602	0.60173	0.00000	0.00000	0.29307	0.29307	0.00000	0.06867	0.06867	—	246.012	246.012	0.00184	0.00110	0.18923	246.576
Vendor	0.00497	0.00271	0.09660	0.03971	0.00188	0.00000	0.06573	0.06573	0.00000	0.01596	0.01596	—	177.086	177.086	0.00226	0.02102	0.12419	183.532
Hauling	0.06561	0.01214	0.75061	0.48094	0.00426	0.00787	1.96943	1.97730	0.00787	0.22472	0.23259	—	525.782	525.782	0.05249	0.08628	0.24038	553.047
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00771	0.00758	0.00657	0.10982	0.00000	0.00000	0.05348	0.05348	0.00000	0.01253	0.01253	—	40.7301	40.7301	0.00030	0.00018	0.03133	40.8234

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00091	0.00050	0.01763	0.00725	0.00034	0.00000	0.01200	0.01200	0.00000	0.00291	0.00291	—	29.3187	29.3187	0.00037	0.00348	0.02056	30.3858
Hauling	0.01197	0.00222	0.13699	0.08777	0.00078	0.00144	0.35942	0.36086	0.00144	0.04101	0.04245	—	87.0492	87.0492	0.00869	0.01428	0.03980	91.5632

3.5.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21221	0.20232	1.05340	9.65771	0.01616	0.03638	—	0.03638	0.03590	—	0.03590	—	1,739.55	1,739.55	0.07056	0.01411	—	1,745.52
Onsite truck	0.00006	0.00004	0.00090	0.00052	0.00001	0.00000	0.00039	0.00039	0.00000	0.00009	0.00009	—	1.07311	1.07311	0.00002	0.00013	0.00169	1.11411
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21221	0.20232	1.05340	9.65771	0.01616	0.03638	—	0.03638	0.03590	—	0.03590	—	1,739.55	1,739.55	0.07056	0.01411	—	1,745.52
Onsite truck	0.00006	0.00004	0.00095	0.00057	0.00001	0.00000	0.00039	0.00039	0.00000	0.00009	0.00009	—	1.07395	1.07395	0.00002	0.00013	0.00004	1.11331
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08845	0.08433	0.43909	4.02562	0.00674	0.01516	—	0.01516	0.01496	—	0.01496	—	725.097	725.097	0.02941	0.00588	—	727.585
Onsite truck	0.00002	0.00001	0.00039	0.00023	< 0.000005	0.00000	0.00016	0.00016	0.00000	0.00004	0.00004	—	0.44745	0.44745	0.00001	0.00005	0.00030	0.46414

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01614	0.01539	0.08013	0.73468	0.00123	0.00277	—	0.00277	0.00273	—	0.00273	—	120.048	120.048	0.00487	0.00097	—	120.460
Onsite truck	< 0.00005	< 0.00005	0.00007	0.00004	< 0.00005	0.00000	0.00003	0.00003	0.00000	0.00001	0.00001	—	0.07408	0.07408	< 0.00005	0.00001	0.00005	0.07684

3.5.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10494	0.10318	0.08378	1.78574	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	630.553	630.553	0.00441	0.00265	1.05297	632.504
Vendor	0.01211	0.00669	0.22182	0.09292	0.00452	0.00000	0.15840	0.15840	0.00000	0.03847	0.03847	—	424.812	424.812	0.00542	0.05044	0.69153	440.669
Hauling	0.15820	0.03069	1.73466	1.14909	0.01023	0.01889	4.81814	4.83703	0.01889	0.54865	0.56754	—	1,261.03	1,261.03	0.12593	0.20699	1.33572	1,327.20
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10406	0.10141	0.10935	1.45505	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	587.656	587.656	0.00529	0.00265	0.02727	588.604
Vendor	0.01193	0.00651	0.23718	0.09726	0.00452	0.00000	0.15840	0.15840	0.00000	0.03847	0.03847	—	424.877	424.877	0.00542	0.05044	0.01790	440.061
Hauling	0.15505	0.02833	1.83304	1.15933	0.01023	0.01889	4.81814	4.83703	0.01889	0.54865	0.56754	—	1,261.87	1,261.87	0.12514	0.20778	0.03471	1,326.95
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04227	0.04154	0.03602	0.60173	0.00000	0.00000	0.29307	0.29307	0.00000	0.06867	0.06867	—	246.012	246.012	0.00184	0.00110	0.18923	246.576
Vendor	0.00497	0.00271	0.09660	0.03971	0.00188	0.00000	0.06573	0.06573	0.00000	0.01596	0.01596	—	177.086	177.086	0.00226	0.02102	0.12419	183.532

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.06561	0.01214	0.75061	0.48094	0.00426	0.00787	1.96943	1.97730	0.00787	0.22472	0.23259	—	525.782	525.782	0.05249	0.08628	0.24038	553.047
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00771	0.00758	0.00657	0.10982	0.00000	0.00000	0.05348	0.05348	0.00000	0.01253	0.01253	—	40.7301	40.7301	0.00030	0.00018	0.03133	40.8234
Vendor	0.00091	0.00050	0.01763	0.00725	0.00034	0.00000	0.01200	0.01200	0.00000	0.00291	0.00291	—	29.3187	29.3187	0.00037	0.00348	0.02056	30.3858
Hauling	0.01197	0.00222	0.13699	0.08777	0.00078	0.00144	0.35942	0.36086	0.00144	0.04101	0.04245	—	87.0492	87.0492	0.00869	0.01428	0.03980	91.5632

3.6. Phase dust control (2033)

3.6.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00542	0.00163	0.05719	0.03982	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	31.9969	31.9969	0.00370	0.00511	0.03562	33.6493
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00525	0.00150	0.05997	0.04048	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	32.0420	32.0420	0.00370	0.00516	0.00093	33.6729
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00322	0.00092	0.03522	0.02400	0.00016	0.00026	0.43982	0.44008	0.00026	0.04472	0.04498	—	19.1719	19.1719	0.00222	0.00309	0.00925	20.1572
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00059	0.00017	0.00643	0.00438	0.00003	0.00005	0.08027	0.08031	0.00005	0.00816	0.00821	—	3.17413	3.17413	0.00037	0.00051	0.00153	3.33725

3.6.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00542	0.00163	0.05719	0.03982	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	31.9969	31.9969	0.00370	0.00511	0.03562	33.6493
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00525	0.00150	0.05997	0.04048	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	32.0420	32.0420	0.00370	0.00516	0.00093	33.6729
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00322	0.00092	0.03522	0.02400	0.00016	0.00026	0.43982	0.44008	0.00026	0.04472	0.04498	—	19.1719	19.1719	0.00222	0.00309	0.00925	20.1572
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00059	0.00017	0.00643	0.00438	0.00003	0.00005	0.08027	0.08031	0.00005	0.00816	0.00821	—	3.17413	3.17413	0.00037	0.00051	0.00153	3.33725

3.6.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7. Phase dust control (2034)

3.7.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00516	0.00141	0.05551	0.03876	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	31.1817	31.1817	0.00366	0.00511	0.03118	32.8285
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00498	0.00128	0.05855	0.03933	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	31.2289	31.2289	0.00362	0.00516	0.00081	32.8574
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00244	0.00063	0.02739	0.01863	0.00013	0.00021	0.35070	0.35091	0.00021	0.03566	0.03587	—	14.8986	14.8986	0.00175	0.00244	0.00643	15.6765
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00045	0.00012	0.00500	0.00340	0.00002	0.00004	0.06400	0.06404	0.00004	0.00651	0.00655	—	2.46663	2.46663	0.00029	0.00040	0.00106	2.59542

3.7.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00516	0.00141	0.05551	0.03876	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	31.1817	31.1817	0.00366	0.00511	0.03118	32.8285
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00498	0.00128	0.05855	0.03933	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	31.2289	31.2289	0.00362	0.00516	0.00081	32.8574
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00244	0.00063	0.02739	0.01863	0.00013	0.00021	0.35070	0.35091	0.00021	0.03566	0.03587	—	14.8986	14.8986	0.00175	0.00244	0.00643	15.6765
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00045	0.00012	0.00500	0.00340	0.00002	0.00004	0.06400	0.06404	0.00004	0.00651	0.00655	—	2.46663	2.46663	0.00029	0.00040	0.00106	2.59542

3.7.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8. Phase 5 Parking Lot Improvements (2034)

3.8.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61135	0.51310	3.74837	6.16480	0.02002	0.10746	—	0.10746	0.09886	—	0.09886	—	2,145.24	2,145.24	0.08702	0.01740	—	2,152.61

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Demolition	—	—	—	—	—	—	0.28518	0.28518	—	0.04318	0.04318	—	—	—	—	—	—	—
Paving	0.07642	0.07642	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00083	0.00052	0.01256	0.00722	0.00015	0.00000	0.00541	0.00541	0.00000	0.00131	0.00131	—	15.0236	15.0236	0.00031	0.00182	0.02361	15.5976
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04020	0.03374	0.24647	0.40536	0.00132	0.00707	—	0.00707	0.00650	—	0.00650	—	141.057	141.057	0.00572	0.00114	—	141.541
Demolition	—	—	—	—	—	—	0.01875	0.01875	—	0.00284	0.00284	—	—	—	—	—	—	—
Paving	0.00502	0.00502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00005	0.00003	0.00086	0.00050	0.00001	0.00000	0.00035	0.00035	0.00000	0.00009	0.00009	—	0.98818	0.98818	0.00002	0.00012	0.00067	1.02504
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00734	0.00616	0.04498	0.07398	0.00024	0.00129	—	0.00129	0.00119	—	0.00119	—	23.3536	23.3536	0.00095	0.00019	—	23.4338
Demolition	—	—	—	—	—	—	0.00342	0.00342	—	0.00052	0.00052	—	—	—	—	—	—	—
Paving	0.00092	0.00092	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00001	0.00001	0.00016	0.00009	< 0.000005	0.00000	0.00006	0.00006	0.00000	0.00002	0.00002	—	0.16360	0.16360	< 0.000005	0.00002	0.00011	0.16971

3.8.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10494	0.10318	0.08378	1.78574	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	630.553	630.553	0.00441	0.00265	1.05297	632.504
Vendor	0.01256	0.00693	0.22993	0.09632	0.00468	0.00000	0.16419	0.16419	0.00000	0.03988	0.03988	—	440.354	440.354	0.00562	0.05228	0.71682	456.791
Hauling	0.09660	0.01874	1.05926	0.70169	0.00625	0.01153	1.78764	1.79918	0.01153	0.21990	0.23143	—	770.040	770.040	0.07690	0.12640	0.81565	810.446
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00667	0.00655	0.00568	0.09492	0.00000	0.00000	0.04623	0.04623	0.00000	0.01083	0.01083	—	38.8075	38.8075	0.00029	0.00017	0.02985	38.8965
Vendor	0.00081	0.00044	0.01580	0.00649	0.00031	0.00000	0.01075	0.01075	0.00000	0.00261	0.00261	—	28.9568	28.9568	0.00037	0.00344	0.02031	30.0108
Hauling	0.00632	0.00117	0.07230	0.04633	0.00041	0.00076	0.11538	0.11613	0.00076	0.01423	0.01499	—	50.6470	50.6470	0.00506	0.00831	0.02316	53.2733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00122	0.00120	0.00104	0.01732	0.00000	0.00000	0.00844	0.00844	0.00000	0.00198	0.00198	—	6.42503	6.42503	0.00005	0.00003	0.00494	6.43975
Vendor	0.00015	0.00008	0.00288	0.00119	0.00006	0.00000	0.00196	0.00196	0.00000	0.00048	0.00048	—	4.79412	4.79412	0.00006	0.00057	0.00336	4.96862
Hauling	0.00115	0.00021	0.01320	0.00845	0.00007	0.00014	0.02106	0.02119	0.00014	0.00260	0.00274	—	8.38519	8.38519	0.00084	0.00138	0.00383	8.82000

3.8.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24174	0.23419	2.21918	11.5533	0.02004	0.04659	—	0.04659	0.04639	—	0.04639	—	2,147.94	2,147.94	0.08713	0.01743	—	2,155.31
Demolition	—	—	—	—	—	—	0.28518	0.28518	—	0.04318	0.04318	—	—	—	—	—	—	—
Paving	0.07642	0.07642	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00083	0.00052	0.01256	0.00722	0.00015	0.00000	0.00541	0.00541	0.00000	0.00131	0.00131	—	15.0236	15.0236	0.00031	0.00182	0.02361	15.5976
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01590	0.01540	0.14592	0.75967	0.00132	0.00306	—	0.00306	0.00305	—	0.00305	—	141.234	141.234	0.00573	0.00115	—	141.719
Demolition	—	—	—	—	—	—	0.01875	0.01875	—	0.00284	0.00284	—	—	—	—	—	—	—
Paving	0.00502	0.00502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00005	0.00003	0.00086	0.00050	0.00001	0.00000	0.00035	0.00035	0.00000	0.00009	0.00009	—	0.98818	0.98818	0.00002	0.00012	0.00067	1.02504
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00290	0.00281	0.02663	0.13864	0.00024	0.00056	—	0.00056	0.00056	—	0.00056	—	23.3830	23.3830	0.00095	0.00019	—	23.4632

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Demolition	—	—	—	—	—	—	0.00342	0.00342	—	0.00052	0.00052	—	—	—	—	—	—	—
Paving	0.00092	0.00092	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00001	0.00001	0.00016	0.00009	< 0.000005	0.00000	0.00006	0.00006	0.00000	0.00002	0.00002	—	0.16360	0.16360	< 0.000005	0.00002	0.00011	0.16971

3.8.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10494	0.10318	0.08378	1.78574	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	630.553	630.553	0.00441	0.00265	1.05297	632.504
Vendor	0.01256	0.00693	0.22993	0.09632	0.00468	0.00000	0.16419	0.16419	0.00000	0.03988	0.03988	—	440.354	440.354	0.00562	0.05228	0.71682	456.791
Hauling	0.09660	0.01874	1.05926	0.70169	0.00625	0.01153	1.78764	1.79918	0.01153	0.21990	0.23143	—	770.040	770.040	0.07690	0.12640	0.81565	810.446
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00667	0.00655	0.00568	0.09492	0.00000	0.00000	0.04623	0.04623	0.00000	0.01083	0.01083	—	38.8075	38.8075	0.00029	0.00017	0.02985	38.8965
Vendor	0.00081	0.00044	0.01580	0.00649	0.00031	0.00000	0.01075	0.01075	0.00000	0.00261	0.00261	—	28.9568	28.9568	0.00037	0.00344	0.02031	30.0108
Hauling	0.00632	0.00117	0.07230	0.04633	0.00041	0.00076	0.11538	0.11613	0.00076	0.01423	0.01499	—	50.6470	50.6470	0.00506	0.00831	0.02316	53.2733
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00122	0.00120	0.00104	0.01732	0.00000	0.00000	0.00844	0.00844	0.00000	0.00198	0.00198	—	6.42503	6.42503	0.00005	0.00003	0.00494	6.43975

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00015	0.00008	0.00288	0.00119	0.00006	0.00000	0.00196	0.00196	0.00000	0.00048	0.00048	—	4.79412	4.79412	0.00006	0.00057	0.00336	4.96862
Hauling	0.00115	0.00021	0.01320	0.00845	0.00007	0.00014	0.02106	0.02119	0.00014	0.00260	0.00274	—	8.38519	8.38519	0.00084	0.00138	0.00383	8.82000

3.9. Phase 6 MEP, Archt& finishrchitectural Coating (2034)

3.9.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05782	0.88195	8.68203	18.3466	0.02972	0.12579	—	0.12579	0.11573	—	0.11573	—	2,972.77	2,972.77	0.12059	0.02412	—	2,982.97
Architectural Coatings	25.8458	25.8458	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00292	0.00184	0.04397	0.02528	0.00054	0.00000	0.01893	0.01893	0.00000	0.00460	0.00460	—	52.5826	52.5826	0.00108	0.00637	0.08265	54.5915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19418	0.16189	1.59369	3.36773	0.00546	0.02309	—	0.02309	0.02124	—	0.02124	—	545.686	545.686	0.02214	0.00443	—	547.559

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Architectural Coatings	4.74430	4.74430	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00052	0.00032	0.00837	0.00490	0.00010	0.00000	0.00346	0.00346	0.00000	0.00084	0.00084	—	9.65533	9.65533	0.00020	0.00117	0.00654	10.0155
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03544	0.02955	0.29085	0.61461	0.00100	0.00421	—	0.00421	0.00388	—	0.00388	—	90.3445	90.3445	0.00366	0.00073	—	90.6546
Architectural Coatings	0.86584	0.86584	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00009	0.00006	0.00153	0.00089	0.00002	0.00000	0.00063	0.00063	0.00000	0.00015	0.00015	—	1.59855	1.59855	0.00003	0.00019	0.00108	1.65818

3.9.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10494	0.10318	0.08378	1.78574	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	630.553	630.553	0.00441	0.00265	1.05297	632.504
Vendor	0.04372	0.02415	0.80070	0.33542	0.01631	0.00000	0.57178	0.57178	0.00000	0.13887	0.13887	—	1,533.47	1,533.47	0.01958	0.18207	2.49624	1,590.71
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01862	0.01829	0.01586	0.26499	0.00000	0.00000	0.12906	0.12906	0.00000	0.03024	0.03024	—	108.338	108.338	0.00081	0.00049	0.08333	108.586
Vendor	0.00791	0.00431	0.15357	0.06313	0.00299	0.00000	0.10449	0.10449	0.00000	0.02537	0.02537	—	281.505	281.505	0.00359	0.03342	0.19742	291.752
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00340	0.00334	0.00290	0.04836	0.00000	0.00000	0.02355	0.02355	0.00000	0.00552	0.00552	—	17.9365	17.9365	0.00013	0.00008	0.01380	17.9776
Vendor	0.00144	0.00079	0.02803	0.01152	0.00055	0.00000	0.01907	0.01907	0.00000	0.00463	0.00463	—	46.6064	46.6064	0.00059	0.00553	0.03268	48.3028
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72420	0.63736	4.63440	21.0522	0.02972	0.07314	—	0.07314	0.07087	—	0.07087	—	2,972.86	2,972.86	0.12059	0.02412	—	2,983.06
Architectural Coatings	25.8458	25.8458	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00292	0.00184	0.04397	0.02528	0.00054	0.00000	0.01893	0.01893	0.00000	0.00460	0.00460	—	52.5826	52.5826	0.00108	0.00637	0.08265	54.5915
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13293	0.11699	0.85070	3.86438	0.00546	0.01343	—	0.01343	0.01301	—	0.01301	—	545.703	545.703	0.02214	0.00443	—	547.576
Architectural Coatings	4.74430	4.74430	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00052	0.00032	0.00837	0.00490	0.00010	0.00000	0.00346	0.00346	0.00000	0.00084	0.00084	—	9.65533	9.65533	0.00020	0.00117	0.00654	10.0155
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02426	0.02135	0.15525	0.70525	0.00100	0.00245	—	0.00245	0.00237	—	0.00237	—	90.3474	90.3474	0.00366	0.00073	—	90.6575
Architectural Coatings	0.86584	0.86584	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00009	0.00006	0.00153	0.00089	0.00002	0.00000	0.00063	0.00063	0.00000	0.00015	0.00015	—	1.59855	1.59855	0.00003	0.00019	0.00108	1.65818

3.9.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10494	0.10318	0.08378	1.78574	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	630.553	630.553	0.00441	0.00265	1.05297	632.504
Vendor	0.04372	0.02415	0.80070	0.33542	0.01631	0.00000	0.57178	0.57178	0.00000	0.13887	0.13887	—	1,533.47	1,533.47	0.01958	0.18207	2.49624	1,590.71

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01862	0.01829	0.01586	0.26499	0.00000	0.00000	0.12906	0.12906	0.00000	0.03024	0.03024	—	108.338	108.338	0.00081	0.00049	0.08333	108.586
Vendor	0.00791	0.00431	0.15357	0.06313	0.00299	0.00000	0.10449	0.10449	0.00000	0.02537	0.02537	—	281.505	281.505	0.00359	0.03342	0.19742	291.752
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00340	0.00334	0.00290	0.04836	0.00000	0.00000	0.02355	0.02355	0.00000	0.00552	0.00552	—	17.9365	17.9365	0.00013	0.00008	0.01380	17.9776
Vendor	0.00144	0.00079	0.02803	0.01152	0.00055	0.00000	0.01907	0.01907	0.00000	0.00463	0.00463	—	46.6064	46.6064	0.00059	0.00553	0.03268	48.3028
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Phase 1 Site Prep	Demolition	3/1/2033	3/21/2033	5.00000	15.0000	—
Phase 2 Earthwork	Grading	3/14/2033	4/30/2033	5.00000	35.0000	—
Phase 3 Foundation	Grading	5/1/2033	11/1/2033	5.00000	132.000	—
Phase 4 Super Structureng Construction	Building Construction	8/1/2033	8/1/2034	5.00000	262.000	—
Phase dust control	Building Construction	3/1/2033	9/1/2034	5.00000	394.000	—
Phase 5 Parking Lot Improvements	Paving	8/1/2034	9/1/2034	5.00000	24.0000	—
Phase 6 MEP, Archt& finishrchitectural Coating	Architectural Coating	6/1/2034	9/1/2034	5.00000	67.0000	—

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
Phase 1 Site Prep	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	2.80000	262.000	0.37000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 Site Prep	Excavators	Diesel	Average	1.000000	1.40000	268.000	0.38000
Phase 1 Site Prep	Other Construction Equipment	Diesel	Average	1.000000	0.90000	806.000	0.42000
Phase 1 Site Prep	Air Compressors	Diesel	Average	1.000000	1.40000	49.0000	0.48000
Phase 1 Site Prep	Cranes	Diesel	Average	1.000000	0.90000	164.000	0.29000
Phase 2 Earthwork	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	0.40000	262.000	0.37000
Phase 2 Earthwork	Excavators	Diesel	Average	1.000000	1.20000	380.000	0.38000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Average	1.000000	1.60000	354.000	0.40000
Phase 2 Earthwork	Air Compressors	Diesel	Average	1.000000	1.60000	49.0000	0.48000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	1.10000	262.000	0.37000
Phase 3 Foundation	Rubber Tired Dozers	Diesel	Average	1.000000	0.80000	125.000	0.40000
Phase 3 Foundation	Air Compressors	Diesel	Average	1.000000	2.20000	49.0000	0.48000
Phase 3 Foundation	Cranes	Diesel	Average	1.000000	0.60000	505.000	0.29000
Phase 3 Foundation	Off-Highway Trucks	Diesel	Average	1.000000	0.60000	505.000	0.38000
Phase 3 Foundation	Graders	Diesel	Average	1.000000	1.10000	259.000	0.41000
Phase 3 Foundation	Rollers	Diesel	Average	1.000000	1.10000	131.000	0.38000
Phase 4 Super Structureng Construction	Cranes	Diesel	Average	1.000000	5.70000	505.000	0.29000
Phase 4 Super Structureng Construction	Forklifts	Diesel	Average	1.000000	4.30000	130.000	0.20000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Average	4.00000	4.10000	85.0000	0.31000
Phase 4 Super Structureng Construction	Air Compressors	Diesel	Average	1.000000	0.80000	49.0000	0.48000
Phase 4 Super Structureng Construction	Off-Highway Trucks	Diesel	Average	1.000000	0.50000	505.000	0.38000
Phase 5 Parking Lot Improvements	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	5.80000	262.000	0.37000
Phase 5 Parking Lot Improvements	Excavators	Diesel	Average	1.000000	1.50000	268.000	0.38000
Phase 5 Parking Lot Improvements	Other Construction Equipment	Diesel	Average	1.000000	0.60000	806.000	0.42000
Phase 5 Parking Lot Improvements	Air Compressors	Diesel	Average	1.000000	1.80000	49.0000	0.48000
Phase 5 Parking Lot Improvements	Pavers	Diesel	Average	1.000000	3.20000	225.000	0.42000
Phase 5 Parking Lot Improvements	Graders	Diesel	Average	1.000000	2.30000	259.000	0.41000
Phase 5 Parking Lot Improvements	Rollers	Diesel	Average	1.000000	6.70000	131.000	0.38000
Phase 6 MEP, Archt& finishrchitectural Coating	Cranes	Diesel	Average	1.000000	1.50000	505.000	0.29000
Phase 6 MEP, Archt& finishrchitectural Coating	Forklifts	Diesel	Average	3.00000	6.90000	130.000	0.20000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Average	7.00000	6.90000	85.0000	0.31000
Phase 6 MEP, Archt& finishrchitectural Coating	Air Compressors	Diesel	Average	3.00000	6.90000	49.0000	0.48000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 Site Prep	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	2.80000	262.000	0.37000
Phase 1 Site Prep	Excavators	Diesel	Tier 4 Final	1.000000	1.40000	268.000	0.38000
Phase 1 Site Prep	Other Construction Equipment	Diesel	Tier 4 Final	1.000000	0.90000	806.000	0.42000
Phase 1 Site Prep	Air Compressors	Diesel	Average	1.000000	1.40000	49.0000	0.48000
Phase 1 Site Prep	Cranes	Diesel	Tier 4 Final	1.000000	0.90000	164.000	0.29000
Phase 2 Earthwork	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	0.40000	262.000	0.37000
Phase 2 Earthwork	Excavators	Diesel	Tier 4 Final	1.000000	1.20000	380.000	0.38000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	1.60000	354.000	0.40000
Phase 2 Earthwork	Air Compressors	Diesel	Average	1.000000	1.60000	49.0000	0.48000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	1.10000	262.000	0.37000
Phase 3 Foundation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	0.80000	125.000	0.40000
Phase 3 Foundation	Air Compressors	Diesel	Average	1.000000	2.20000	49.0000	0.48000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 3 Foundation	Cranes	Diesel	Tier 4 Final	1.000000	0.60000	505.000	0.29000
Phase 3 Foundation	Off-Highway Trucks	Diesel	Average	1.000000	0.60000	505.000	0.38000
Phase 3 Foundation	Graders	Diesel	Tier 4 Final	1.000000	1.10000	259.000	0.41000
Phase 3 Foundation	Rollers	Diesel	Tier 4 Final	1.000000	1.10000	131.000	0.38000
Phase 4 Super Structureng Construction	Cranes	Diesel	Tier 4 Final	1.000000	5.70000	505.000	0.29000
Phase 4 Super Structureng Construction	Forklifts	Diesel	Tier 4 Final	1.000000	4.30000	130.000	0.20000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Tier 4 Final	4.00000	4.10000	85.0000	0.31000
Phase 4 Super Structureng Construction	Air Compressors	Diesel	Average	1.000000	0.80000	49.0000	0.48000
Phase 4 Super Structureng Construction	Off-Highway Trucks	Diesel	Average	1.000000	0.50000	505.000	0.38000
Phase 5 Parking Lot Improvements	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	5.80000	262.000	0.37000
Phase 5 Parking Lot Improvements	Excavators	Diesel	Tier 4 Final	1.000000	1.50000	268.000	0.38000
Phase 5 Parking Lot Improvements	Other Construction Equipment	Diesel	Tier 4 Final	1.000000	0.60000	806.000	0.42000
Phase 5 Parking Lot Improvements	Air Compressors	Diesel	Average	1.000000	1.80000	49.0000	0.48000
Phase 5 Parking Lot Improvements	Pavers	Diesel	Tier 4 Final	1.000000	3.20000	225.000	0.42000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 5 Parking Lot Improvements	Graders	Diesel	Tier 4 Final	1.000000	2.30000	259.000	0.41000
Phase 5 Parking Lot Improvements	Rollers	Diesel	Tier 4 Final	1.000000	6.70000	131.000	0.38000
Phase 6 MEP, Archt& finishrchitectural Coating	Cranes	Diesel	Tier 4 Final	1.000000	1.50000	505.000	0.29000
Phase 6 MEP, Archt& finishrchitectural Coating	Forklifts	Diesel	Tier 4 Final	3.00000	6.90000	130.000	0.20000
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Tier 4 Final	7.00000	6.90000	85.0000	0.31000
Phase 6 MEP, Archt& finishrchitectural Coating	Air Compressors	Diesel	Average	3.00000	6.90000	49.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 Site Prep	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 1 Site Prep	Vendor	5.60000	25.0000	MHDT
Phase 1 Site Prep	Hauling	20.8000	12.0000	HHDT
Phase 1 Site Prep	Onsite truck	0.90000	5.00000	MHDT
Phase 2 Earthwork	Worker	40.0000	25.0000	LDA,LDT1,LDT2

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 2 Earthwork	Vendor	1.40000	25.0000	MHDT
Phase 2 Earthwork	Hauling	16.9000	12.0000	HHDT
Phase 2 Earthwork	Onsite truck	0.20000	5.00000	MHDT
Phase 3 Foundation	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 3 Foundation	Vendor	4.10000	25.0000	MHDT
Phase 3 Foundation	Hauling	21.2000	12.0000	HHDT
Phase 3 Foundation	Onsite truck	0.70000	5.00000	MHDT
Phase 4 Super Structureng Construction	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 4 Super Structureng Construction	Vendor	8.20000	25.0000	MHDT
Phase 4 Super Structureng Construction	Hauling	35.7000	12.0000	HHDT
Phase 4 Super Structureng Construction	Onsite truck	0.10000	5.00000	MHDT
Phase dust control	Worker	0.00000	0.00000	LDA,LDT1,LDT2
Phase dust control	Vendor	0.00000	0.00000	HHDT,MHDT
Phase dust control	Hauling	0.00000	20.0000	HHDT
Phase dust control	Onsite truck	2.00000	5.00000	HHDT
Phase 5 Parking Lot Improvements	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 5 Parking Lot Improvements	Vendor	8.50000	25.0000	MHDT
Phase 5 Parking Lot Improvements	Hauling	21.8000	12.0000	HHDT
Phase 5 Parking Lot Improvements	Onsite truck	1.40000	5.00000	MHDT

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	29.6000	25.0000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	0.00000	0.00000	HHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	4.90000	5.00000	MHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 Site Prep	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 1 Site Prep	Vendor	5.60000	25.0000	MHDT
Phase 1 Site Prep	Hauling	20.8000	12.0000	HHDT
Phase 1 Site Prep	Onsite truck	0.90000	5.00000	MHDT
Phase 2 Earthwork	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 2 Earthwork	Vendor	1.40000	25.0000	MHDT
Phase 2 Earthwork	Hauling	16.9000	12.0000	HHDT
Phase 2 Earthwork	Onsite truck	0.20000	5.00000	MHDT
Phase 3 Foundation	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 3 Foundation	Vendor	4.10000	25.0000	MHDT
Phase 3 Foundation	Hauling	21.2000	12.0000	HHDT
Phase 3 Foundation	Onsite truck	0.70000	5.00000	MHDT

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 4 Super Structureng Construction	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 4 Super Structureng Construction	Vendor	8.20000	25.0000	MHDT
Phase 4 Super Structureng Construction	Hauling	35.7000	12.0000	HHDT
Phase 4 Super Structureng Construction	Onsite truck	0.10000	5.00000	MHDT
Phase dust control	Worker	0.00000	0.00000	LDA,LDT1,LDT2
Phase dust control	Vendor	0.00000	0.00000	HHDT,MHDT
Phase dust control	Hauling	0.00000	20.0000	HHDT
Phase dust control	Onsite truck	2.00000	5.00000	HHDT
Phase 5 Parking Lot Improvements	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 5 Parking Lot Improvements	Vendor	8.50000	25.0000	MHDT
Phase 5 Parking Lot Improvements	Hauling	21.8000	12.0000	HHDT
Phase 5 Parking Lot Improvements	Onsite truck	1.40000	5.00000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	29.6000	25.0000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	0.00000	0.00000	HHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	4.90000	5.00000	MHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

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

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Phase 6 MEP, Archt& finishrchitectural Coating	0.00000	0.00000	300,000	49,000.0	0.00000

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)
Phase 1 Site Prep	0.00000	0.00000	0.00000	568.000	0.00000
Phase 2 Earthwork	0.00000	3,700.00	0.92000	0.00000	0.00000
Phase 3 Foundation	7,407.00	0.00000	0.00000	0.00000	0.00000
Phase 5 Parking Lot Improvements	0.00000	0.00000	0.00000	473.000	0.70000

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Phase 5 Parking Lot Improvements	Unenclosed Parking Structure	0.70000	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2033	0.00000	203.983	0.03300	0.00400
2034	0.00000	203.983	0.03300	0.00400

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Project information
Construction: Construction Phases	project information

Screen	Justification
Construction: Off-Road Equipment	Project information
Construction: Dust From Material Movement	Project information
Construction: Trips and VMT	Project information
Construction: On-Road Fugitive Dust	project information
Construction: Architectural Coatings	Project information
Construction: Paving	Project information

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Building Area	sq. ft	44,431.0	248,868
Landscape Area	sq. ft	—	0.00000
Special Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Number per Day	3.00000	1.000000
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Hours Per Day	8.00000	2.80000
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Horsepower	84.0000	262.000
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Number per Day	2.00000	1.000000

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Hours Per Day	7.00000	0.40000
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Horsepower	84.0000	262.000
Phase 4 Super Structureng Construction	Cranes	Hours Per Day	6.00000	5.70000
Phase 4 Super Structureng Construction	Cranes	Horsepower	367.000	505.000
Phase 4 Super Structureng Construction	Forklifts	Hours Per Day	6.00000	4.30000
Phase 4 Super Structureng Construction	Forklifts	Horsepower	82.0000	130.000

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 2 Earthwork	Material Imported	Cubic Yards	—	0.00000
Phase 2 Earthwork	Material Exported	Cubic Yards	—	3,700.00
Phase 2 Earthwork	Total Acres Graded	acres	3.50000	0.92000
Phase 3 Foundation	Material Imported	Cubic Yards	—	7,407.00
Phase 3 Foundation	Material Exported	Cubic Yards	—	0.00000
Phase 3 Foundation	Total Acres Graded	acres	15.6750	0.00000

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 1 Site Prep	Worker	One-Way Trips per Day	12.5000	40.0000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 1 Site Prep	Worker	Miles per Trip	11.7000	25.0000
Phase 1 Site Prep	Vendor	One-Way Trips per Day	—	5.60000
Phase 1 Site Prep	Vendor	Miles per Trip	8.40000	25.0000
Phase 1 Site Prep	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 1 Site Prep	Hauling	One-Way Trips per Day	9.46667	20.8000
Phase 1 Site Prep	Hauling	Miles per Trip	20.0000	12.0000
Phase 1 Site Prep	Onsite truck	One-Way Trips per Day	—	0.90000
Phase 1 Site Prep	Onsite truck	Miles per Trip	—	5.00000
Phase 1 Site Prep	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 2 Earthwork	Worker	One-Way Trips per Day	10.00000	40.0000
Phase 2 Earthwork	Worker	Miles per Trip	11.7000	25.0000
Phase 2 Earthwork	Vendor	One-Way Trips per Day	—	1.40000
Phase 2 Earthwork	Vendor	Miles per Trip	8.40000	25.0000
Phase 2 Earthwork	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 2 Earthwork	Hauling	One-Way Trips per Day	13.2286	16.9000
Phase 2 Earthwork	Hauling	Miles per Trip	20.0000	12.0000
Phase 2 Earthwork	Onsite truck	One-Way Trips per Day	—	0.20000
Phase 2 Earthwork	Onsite truck	Miles per Trip	—	5.00000
Phase 2 Earthwork	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 3 Foundation	Worker	One-Way Trips per Day	17.5000	40.0000
Phase 3 Foundation	Worker	Miles per Trip	11.7000	25.0000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 3 Foundation	Vendor	One-Way Trips per Day	—	4.10000
Phase 3 Foundation	Vendor	Miles per Trip	8.40000	25.0000
Phase 3 Foundation	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 3 Foundation	Hauling	One-Way Trips per Day	7.01515	21.2000
Phase 3 Foundation	Hauling	Miles per Trip	20.0000	12.0000
Phase 3 Foundation	Onsite truck	One-Way Trips per Day	—	0.70000
Phase 3 Foundation	Onsite truck	Miles per Trip	—	5.00000
Phase 3 Foundation	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 4 Super Structureng Construction	Worker	One-Way Trips per Day	104.525	40.0000
Phase 4 Super Structureng Construction	Worker	Miles per Trip	11.7000	25.0000
Phase 4 Super Structureng Construction	Vendor	One-Way Trips per Day	40.7895	8.20000
Phase 4 Super Structureng Construction	Vendor	Miles per Trip	8.40000	25.0000
Phase 4 Super Structureng Construction	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 4 Super Structureng Construction	Hauling	One-Way Trips per Day	0.00000	35.7000
Phase 4 Super Structureng Construction	Hauling	Miles per Trip	20.0000	12.0000
Phase 4 Super Structureng Construction	Onsite truck	One-Way Trips per Day	—	0.10000
Phase 4 Super Structureng Construction	Onsite truck	Miles per Trip	—	5.00000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 4 Super Structureng Construction	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase dust control	Worker	One-Way Trips per Day	104.525	0.00000
Phase dust control	Worker	Miles per Trip	11.7000	0.00000
Phase dust control	Vendor	One-Way Trips per Day	40.7895	0.00000
Phase dust control	Vendor	Miles per Trip	8.40000	0.00000
Phase 5 Parking Lot Improvements	Worker	One-Way Trips per Day	17.5000	40.0000
Phase 5 Parking Lot Improvements	Worker	Miles per Trip	11.7000	25.0000
Phase 5 Parking Lot Improvements	Vendor	One-Way Trips per Day	—	8.50000
Phase 5 Parking Lot Improvements	Vendor	Miles per Trip	8.40000	25.0000
Phase 5 Parking Lot Improvements	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 5 Parking Lot Improvements	Hauling	One-Way Trips per Day	4.95833	21.8000
Phase 5 Parking Lot Improvements	Hauling	Miles per Trip	20.0000	12.0000
Phase 5 Parking Lot Improvements	Onsite truck	One-Way Trips per Day	—	1.40000
Phase 5 Parking Lot Improvements	Onsite truck	Miles per Trip	—	5.00000
Phase 5 Parking Lot Improvements	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	One-Way Trips per Day	41.8098	40.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	Miles per Trip	11.7000	25.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	One-Way Trips per Day	—	29.6000
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	Miles per Trip	8.40000	25.0000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	Miles per Trip	20.0000	0.00000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	One-Way Trips per Day	—	4.90000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	Miles per Trip	—	5.00000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	Vehicle Mix	HHDT	MHDT

8.4.7. On-Road Fugitive Dust

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 1 Site Prep	Hauling Trip Paved	%	100.0000	99.2000
Phase 1 Site Prep	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 2 Earthwork	Hauling Trip Paved	%	100.0000	99.2000
Phase 2 Earthwork	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 3 Foundation	Hauling Trip Paved	%	100.0000	99.6000
Phase 3 Foundation	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 4 Super Structureng Construction	Hauling Trip Paved	%	100.0000	99.3000
Phase 4 Super Structureng Construction	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase dust control	Onsite Truck Trip Paved	%	0.00000	80.0000
Phase 5 Parking Lot Improvements	Hauling Trip Paved	%	100.0000	99.6000

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 5 Parking Lot Improvements	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite Truck Trip Paved	%	0.00000	100.0000

8.4.8. Architectural Coatings

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 6 MEP, Archt& finishrchitectural Coating	Non-Residential Interior Area	sq ft	1,999.40	300,000
Phase 6 MEP, Archt& finishrchitectural Coating	Non-Residential Exterior Area	sq ft	222.156	49,000.0
Phase 6 MEP, Archt& finishrchitectural Coating	Parking Area	sq ft	2,665.87	0.00000

8.4.9. Paving

Phase Name	Land Use	Model Parameter	Units	Default Value	New Value
Phase 5 Parking Lot Improvements	Unenclosed Parking Structure	Area Paved	acres	1.02000	0.70000

Larkspur Main Lot Construction HP_Unmit and mitg Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Larkspur Main Lot Construction HP_Unmit and mitg
Construction Start Date	3/2/2037
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.90000
Precipitation (days)	7.60000
Location	Larkspur Ferry Terminal, Larkspur, CA 94939, USA
County	Marin
City	Larkspur
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	905
EDFZ	2
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.45

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
Unenclosed Parking Structure	10.00000	Acre	10.00000	1,175,167	0.00000	0.00000	—	—

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.	50.0697	49.4599	41.9417	37.3080	0.27205	0.89929	71.0691	71.9684	0.86141	10.1897	11.0511	—	32,655.9	32,655.9	2.14995	4.27266	21.0823	34,003.9
Mit.	49.3623	48.9421	33.6486	48.5557	0.27207	0.52738	71.0691	71.5965	0.52738	10.1897	10.7170	—	32,658.2	32,658.2	2.15004	4.27268	21.0823	34,006.3
% Reduced	1%	1%	20%	-30%	—	41%	—	1%	39%	—	3%	—	> -0.5%	> -0.5%	—	—	—	> -0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Unmit.	49.1775	48.8514	28.3283	47.7793	0.20777	0.72427	13.3743	14.0986	0.67335	2.33897	3.01231	—	23,205.6	23,205.6	0.86912	1.45616	0.28543	23,661.6
Mit.	48.8666	48.6407	19.6002	67.5605	0.21065	0.34807	13.3743	13.7224	0.34028	2.33897	2.67924	—	23,517.0	23,517.0	0.88175	1.45869	0.28543	23,974.0
% Reduced	1%	< 0.5%	31%	-41%	-1%	52%	—	3%	49%	—	11%	—	-1%	-1%	-1%	> -0.5%	—	-1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.0693	21.8269	13.5322	18.2417	0.09274	0.32216	11.9992	12.3213	0.30174	1.83352	2.13526	—	10,487.7	10,487.7	0.49449	0.85885	2.55375	10,758.6
Mit.	21.7975	21.6303	9.95091	26.0884	0.09394	0.16443	11.9992	12.1636	0.16175	1.83352	1.99527	—	10,617.8	10,617.8	0.49976	0.85991	2.55375	10,889.1
% Reduced	1%	1%	26%	-43%	-1%	49%	—	1%	46%	—	7%	—	-1%	-1%	-1%	> -0.5%	—	-1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.02764	3.98342	2.46963	3.32911	0.01693	0.05879	2.18985	2.24864	0.05507	0.33462	0.38968	—	1,736.36	1,736.36	0.08187	0.14219	0.42280	1,781.20
Mit.	3.97805	3.94752	1.81604	4.76114	0.01714	0.03001	2.18985	2.21985	0.02952	0.33462	0.36414	—	1,757.90	1,757.90	0.08274	0.14237	0.42280	1,802.82
% Reduced	1%	1%	26%	-43%	-1%	49%	—	1%	46%	—	7%	—	-1%	-1%	-1%	> -0.5%	—	-1%

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	4.79330	2.74832	41.9417	37.3080	0.27205	0.89929	71.0691	71.9684	0.86141	10.1897	11.0511	—	32,655.9	32,655.9	2.14995	4.27266	21.0823	34,003.9
2038	1.52828	1.08437	10.0845	17.0641	0.07393	0.25209	6.81548	7.06756	0.23603	1.08758	1.32361	—	8,645.81	8,645.81	0.35565	0.66539	4.29195	8,857.28
2039	50.0697	49.4599	17.7601	30.9105	0.11501	0.30838	8.79369	9.10207	0.28781	1.55755	1.84537	—	13,088.4	13,088.4	0.46664	0.85376	6.25260	13,360.7
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	3.43319	2.67997	18.6446	31.4527	0.13376	0.49040	12.1395	12.3269	0.45411	1.60011	1.78172	—	14,855.5	14,855.5	0.53375	0.79467	0.20059	15,105.8
2038	4.89756	3.72624	28.3283	47.7793	0.20777	0.72427	13.3743	14.0986	0.67335	2.33897	3.01231	—	23,205.6	23,205.6	0.86912	1.45616	0.28543	23,661.6
2039	49.1775	48.8514	11.1695	19.2642	0.07428	0.24497	6.81548	7.06045	0.22948	1.08758	1.31706	—	8,473.04	8,473.04	0.35662	0.64051	0.09774	8,672.93
2040	49.1617	48.8353	11.0280	19.1372	0.06296	0.11559	4.74412	4.85971	0.10696	0.91143	1.01839	—	7,058.44	7,058.44	0.20165	0.32947	0.08442	7,161.74
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.07603	1.44485	13.5322	18.2417	0.09274	0.32216	11.9992	12.3213	0.30174	1.83352	2.13526	—	10,487.7	10,487.7	0.49449	0.85885	2.55375	10,758.6
2038	1.47680	1.07632	9.37573	15.4117	0.06802	0.23403	5.52525	5.75927	0.21856	0.90855	1.12710	—	7,801.41	7,801.41	0.31188	0.56471	1.65177	7,979.14
2039	22.0693	21.8269	7.21136	12.2154	0.04516	0.11314	3.64385	3.75699	0.10544	0.64400	0.74944	—	5,135.70	5,135.70	0.17683	0.31717	1.08726	5,235.73
2040	4.42539	4.39597	0.98481	1.72296	0.00564	0.01041	0.42302	0.43342	0.00963	0.08145	0.09108	—	635.940	635.940	0.01815	0.02966	0.12658	645.358
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.37887	0.26368	2.46963	3.32911	0.01693	0.05879	2.18985	2.24864	0.05507	0.33462	0.38968	—	1,736.36	1,736.36	0.08187	0.14219	0.42280	1,781.20
2038	0.26952	0.19643	1.71107	2.81264	0.01241	0.04271	1.00836	1.05107	0.03989	0.16581	0.20570	—	1,291.61	1,291.61	0.05164	0.09349	0.27347	1,321.04
2039	4.02764	3.98342	1.31607	2.22930	0.00824	0.02065	0.66500	0.68565	0.01924	0.11753	0.13677	—	850.274	850.274	0.02928	0.05251	0.18001	866.834
2040	0.80763	0.80227	0.17973	0.31444	0.00103	0.00190	0.07720	0.07910	0.00176	0.01486	0.01662	—	105.287	105.287	0.00301	0.00491	0.02096	106.846

2.2.2. Onsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.87401	2.40238	14.4217	25.8051	0.07748	0.47402	4.13874	4.61276	0.43613	1.84008	2.27622	—	8,057.22	8,057.22	0.32497	0.09282	0.28543	8,093.29
2038	1.10360	0.92322	6.31286	12.6523	0.03400	0.20122	0.78372	0.98493	0.18516	0.08448	0.26964	—	3,632.37	3,632.37	0.14757	0.04259	0.10718	3,648.85
2039	49.4669	49.1574	13.3428	23.7623	0.05524	0.25751	1.02109	1.13236	0.23695	0.12283	0.33269	—	5,670.53	5,670.53	0.22888	0.07081	0.20136	5,697.55
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.87387	2.40174	14.4327	25.8142	0.07752	0.45402	3.10674	3.27247	0.41773	0.43594	0.58845	—	8,057.50	8,057.50	0.32493	0.09282	0.00742	8,093.29
2038	3.94049	3.29639	20.2225	38.3028	0.11130	0.63703	0.88234	1.51937	0.58610	0.10717	0.69327	—	11,651.3	11,651.3	0.46963	0.13094	0.00885	11,702.1
2039	48.8170	48.6202	9.43660	15.1282	0.03404	0.19410	1.02109	1.13236	0.17861	0.12283	0.26309	—	3,628.74	3,628.74	0.14752	0.04669	0.00401	3,645.11
2040	48.8122	48.6158	9.36410	15.1207	0.03329	0.10834	1.02109	1.12943	0.09971	0.12283	0.22254	—	3,283.81	3,283.81	0.13267	0.04463	0.00351	3,300.43
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.50763	1.26074	7.85581	13.2744	0.04062	0.25554	1.02705	1.28258	0.23511	0.28445	0.51956	—	4,253.27	4,253.27	0.17188	0.04790	0.05859	4,271.90
2038	1.11489	0.93266	6.10655	11.9757	0.03316	0.19372	0.55997	0.75369	0.17825	0.06182	0.24006	—	3,514.96	3,514.96	0.14238	0.04069	0.04462	3,530.69
2039	21.8259	21.6987	5.54584	9.60407	0.02238	0.09660	0.61404	0.71064	0.08889	0.07000	0.15889	—	2,281.12	2,281.12	0.09246	0.03022	0.03861	2,292.48
2040	4.39407	4.37638	0.84265	1.36100	0.00299	0.00975	0.09050	0.10025	0.00898	0.01091	0.01989	—	295.596	295.596	0.01194	0.00402	0.00527	297.097
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.27514	0.23009	1.43368	2.42258	0.00741	0.04664	0.18744	0.23407	0.04291	0.05191	0.09482	—	704.177	704.177	0.02846	0.00793	0.00970	707.261
2038	0.20347	0.17021	1.11444	2.18556	0.00605	0.03535	0.10220	0.13755	0.03253	0.01128	0.04381	—	581.941	581.941	0.02357	0.00674	0.00739	584.545

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2039	3.98323	3.96001	1.01212	1.75274	0.00408	0.01763	0.11206	0.12969	0.01622	0.01277	0.02900	—	377.666	377.666	0.01531	0.00500	0.00639	379.546
2040	0.80192	0.79869	0.15378	0.24838	0.00055	0.00178	0.01652	0.01830	0.00164	0.00199	0.00363	—	48.9393	48.9393	0.00198	0.00067	0.00087	49.1878

2.2.3. Offsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.70690	0.55222	30.9136	20.8292	0.22162	0.42527	66.9304	67.3557	0.42527	8.34958	8.77485	—	27,206.0	27,206.0	1.92803	4.21858	20.9996	28,532.3
2038	0.42469	0.16115	3.77159	4.41184	0.03993	0.05087	6.03176	6.08263	0.05087	1.00310	1.05397	—	5,013.44	5,013.44	0.20808	0.62280	4.18477	5,208.42
2039	0.60282	0.30246	4.41731	7.14819	0.05977	0.05087	7.96361	8.01448	0.05087	1.46181	1.51268	—	7,417.86	7,417.86	0.23776	0.78295	6.05123	7,663.17
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.55931	0.27822	4.21193	5.63845	0.05624	0.03638	9.03278	9.05442	0.03638	1.22870	1.26507	—	6,797.97	6,797.97	0.20882	0.70185	0.19317	7,012.54
2038	0.95707	0.42985	8.10584	9.47653	0.09648	0.08725	12.4920	12.5792	0.08725	2.23180	2.31904	—	11,554.3	11,554.3	0.39949	1.32523	0.27658	11,959.5
2039	0.39243	0.23121	3.88189	4.13595	0.04024	0.05087	6.03176	6.08263	0.05087	1.00310	1.05397	—	4,844.31	4,844.31	0.20910	0.59794	0.09374	5,027.81
2040	0.34947	0.21945	1.66386	4.01652	0.02967	0.00725	3.72303	3.73028	0.00725	0.78860	0.79585	—	3,774.62	3,774.62	0.06898	0.28484	0.08091	3,861.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.56840	0.18410	5.67644	4.96727	0.05213	0.06663	10.9721	11.0387	0.06663	1.54907	1.61570	—	6,234.45	6,234.45	0.32261	0.81096	2.49516	6,486.68
2038	0.36191	0.14365	3.26918	3.43601	0.03486	0.04031	4.96527	5.00558	0.04031	0.84673	0.88704	—	4,286.45	4,286.45	0.16951	0.52402	1.60715	4,448.45
2039	0.24337	0.12827	1.66553	2.61129	0.02278	0.01655	3.02981	3.04636	0.01655	0.57400	0.59055	—	2,854.58	2,854.58	0.08437	0.28694	1.04866	2,943.25

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2040	0.03132	0.01959	0.14216	0.36196	0.00264	0.00065	0.33252	0.33317	0.00065	0.07054	0.07119	—	340.344	340.344	0.00621	0.02564	0.12131	348.261
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.10373	0.03360	1.03595	0.90653	0.00951	0.01216	2.00241	2.01457	0.01216	0.28271	0.29487	—	1,032.18	1,032.18	0.05341	0.13426	0.41310	1,073.94
2038	0.06605	0.02622	0.59663	0.62707	0.00636	0.00736	0.90616	0.91352	0.00736	0.15453	0.16188	—	709.671	709.671	0.02806	0.08676	0.26608	736.492
2039	0.04441	0.02341	0.30396	0.47656	0.00416	0.00302	0.55294	0.55596	0.00302	0.10476	0.10778	—	472.608	472.608	0.01397	0.04751	0.17362	487.288
2040	0.00572	0.00358	0.02594	0.06606	0.00048	0.00012	0.06068	0.06080	0.00012	0.01287	0.01299	—	56.3478	56.3478	0.00103	0.00425	0.02008	57.6587

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	3.22277	1.83902	33.6486	48.5557	0.27207	0.52738	71.0691	71.5965	0.52738	10.1897	10.7170	—	32,658.2	32,658.2	2.15004	4.27268	21.0823	34,006.3
2038	0.93314	0.62670	6.95908	22.7075	0.07393	0.12471	6.81548	6.94018	0.12303	1.08758	1.21062	—	8,645.87	8,645.87	0.35565	0.66539	4.29195	8,857.34
2039	49.3623	48.9421	13.4117	43.1610	0.12054	0.17735	8.79369	8.97103	0.17443	1.55755	1.73198	—	13,686.4	13,686.4	0.49090	0.85861	6.25260	13,960.8
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.24610	1.77066	12.6846	45.4676	0.13664	0.22740	12.1395	12.2587	0.22099	1.60011	1.71919	—	15,166.8	15,166.8	0.54638	0.79720	0.20059	15,418.2
2038	3.14296	2.38249	19.6002	67.5605	0.21065	0.34807	13.3743	13.7224	0.34028	2.33897	2.67924	—	23,517.0	23,517.0	0.88175	1.45869	0.28543	23,974.0
2039	48.8666	48.6407	9.23124	28.5027	0.07428	0.12374	6.81548	6.93922	0.12214	1.08758	1.20973	—	8,473.11	8,473.11	0.35663	0.64051	0.09774	8,672.99
2040	48.8566	48.6294	9.15129	28.3882	0.06849	0.08668	4.74412	4.83080	0.08515	0.91143	0.99657	—	7,657.64	7,657.64	0.22595	0.33433	0.08442	7,763.01

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.35818	0.89166	9.95091	26.0884	0.09394	0.16443	11.9992	12.1636	0.16175	1.83352	1.99527	—	10,617.8	10,617.8	0.49976	0.85991	2.55375	10,889.1
2038	0.91905	0.64806	6.50381	21.0696	0.06836	0.11457	5.52525	5.63982	0.11267	0.90855	1.02122	—	7,838.01	7,838.01	0.31337	0.56500	1.65177	8,015.86
2039	21.7975	21.6303	5.60349	17.4724	0.04761	0.06829	3.64385	3.71214	0.06718	0.64400	0.71118	—	5,400.52	5,400.52	0.18757	0.31931	1.08726	5,501.45
2040	4.39792	4.37745	0.81588	2.55573	0.00613	0.00780	0.42302	0.43082	0.00766	0.08145	0.08911	—	689.880	689.880	0.02034	0.03010	0.12658	699.484
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.24787	0.16273	1.81604	4.76114	0.01714	0.03001	2.18985	2.21985	0.02952	0.33462	0.36414	—	1,757.90	1,757.90	0.08274	0.14237	0.42280	1,802.82
2038	0.16773	0.11827	1.18695	3.84519	0.01247	0.02091	1.00836	1.02927	0.02056	0.16581	0.18637	—	1,297.67	1,297.67	0.05188	0.09354	0.27347	1,327.12
2039	3.97805	3.94752	1.02264	3.18872	0.00869	0.01246	0.66500	0.67747	0.01226	0.11753	0.12979	—	894.117	894.117	0.03105	0.05287	0.18001	910.828
2040	0.80262	0.79888	0.14890	0.46642	0.00112	0.00142	0.07720	0.07863	0.00140	0.01486	0.01626	—	114.218	114.218	0.00337	0.00498	0.02096	115.808

2.2.5. Onsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.68692	1.49308	8.46163	39.8199	0.08035	0.19103	4.13874	4.24084	0.18461	1.84008	1.94218	—	8,368.53	8,368.53	0.33760	0.09535	0.28543	8,405.67
2038	0.50846	0.46555	3.18748	18.2957	0.03400	0.07384	0.78372	0.85755	0.07217	0.08448	0.15665	—	3,632.43	3,632.43	0.14757	0.04259	0.10718	3,648.92
2039	48.7595	48.6397	8.99439	36.0128	0.06076	0.12648	1.02109	1.10119	0.12356	0.12283	0.21930	—	6,268.59	6,268.59	0.25314	0.07566	0.20136	6,297.67
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2037	1.68679	1.49244	8.47262	39.8291	0.08040	0.19103	3.10674	3.20430	0.18461	0.43594	0.53338	—	8,368.80	8,368.80	0.33756	0.09535	0.00742	8,405.66
2038	2.18590	1.95263	11.4944	58.0840	0.11417	0.26083	0.88234	1.14317	0.25303	0.10717	0.36020	—	11,962.7	11,962.7	0.48226	0.13346	0.00885	12,014.5
2039	48.5061	48.4095	7.49837	24.3668	0.03883	0.08010	1.02109	1.10119	0.07851	0.12283	0.20134	—	3,888.82	3,888.82	0.15724	0.05155	0.00401	3,908.12
2040	48.5071	48.4100	7.48744	24.3717	0.03883	0.07943	1.02109	1.10053	0.07790	0.12283	0.20073	—	3,883.02	3,883.02	0.15697	0.04949	0.00351	3,901.70
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.78978	0.70755	4.27448	21.1212	0.04182	0.09780	1.02705	1.12485	0.09512	0.28445	0.37957	—	4,383.36	4,383.36	0.17716	0.04895	0.05859	4,402.43
2038	0.55714	0.50440	3.23463	17.6336	0.03349	0.07427	0.55997	0.63424	0.07236	0.06182	0.13418	—	3,551.55	3,551.55	0.14386	0.04098	0.04462	3,567.41
2039	21.5542	21.5020	3.93796	14.8611	0.02483	0.05174	0.61404	0.66578	0.05063	0.07000	0.12062	—	2,545.94	2,545.94	0.10320	0.03237	0.03861	2,558.20
2040	4.36660	4.35785	0.67371	2.19377	0.00349	0.00715	0.09050	0.09765	0.00701	0.01091	0.01792	—	349.536	349.536	0.01413	0.00446	0.00527	351.222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.14413	0.12913	0.78009	3.85461	0.00763	0.01785	0.18744	0.20528	0.01736	0.05191	0.06927	—	725.715	725.715	0.02933	0.00810	0.00970	728.873
2038	0.10168	0.09205	0.59032	3.21812	0.00611	0.01355	0.10220	0.11575	0.01321	0.01128	0.02449	—	588.000	588.000	0.02382	0.00679	0.00739	590.625
2039	3.93364	3.92411	0.71868	2.71216	0.00453	0.00944	0.11206	0.12151	0.00924	0.01277	0.02201	—	421.509	421.509	0.01709	0.00536	0.00639	423.540
2040	0.79690	0.79531	0.12295	0.40036	0.00064	0.00130	0.01652	0.01782	0.00128	0.00199	0.00327	—	57.8697	57.8697	0.00234	0.00074	0.00087	58.1489

2.2.6. Offsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.70690	0.55222	30.9136	20.8292	0.22162	0.42527	66.9304	67.3557	0.42527	8.34958	8.77485	—	27,206.0	27,206.0	1.92803	4.21858	20.9996	28,532.3

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2038	0.42469	0.16115	3.77159	4.41184	0.03993	0.05087	6.03176	6.08263	0.05087	1.00310	1.05397	—	5,013.44	5,013.44	0.20808	0.62280	4.18477	5,208.42
2039	0.60282	0.30246	4.41731	7.14819	0.05977	0.05087	7.96361	8.01448	0.05087	1.46181	1.51268	—	7,417.86	7,417.86	0.23776	0.78295	6.05123	7,663.17
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.55931	0.27822	4.21193	5.63845	0.05624	0.03638	9.03278	9.05442	0.03638	1.22870	1.26507	—	6,797.97	6,797.97	0.20882	0.70185	0.19317	7,012.54
2038	0.95707	0.42985	8.10584	9.47653	0.09648	0.08725	12.4920	12.5792	0.08725	2.23180	2.31904	—	11,554.3	11,554.3	0.39949	1.32523	0.27658	11,959.5
2039	0.39243	0.23121	3.88189	4.13595	0.04024	0.05087	6.03176	6.08263	0.05087	1.00310	1.05397	—	4,844.31	4,844.31	0.20910	0.59794	0.09374	5,027.81
2040	0.34947	0.21945	1.66386	4.01652	0.02967	0.00725	3.72303	3.73028	0.00725	0.78860	0.79585	—	3,774.62	3,774.62	0.06898	0.28484	0.08091	3,861.31
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.56840	0.18410	5.67644	4.96727	0.05213	0.06663	10.9721	11.0387	0.06663	1.54907	1.61570	—	6,234.45	6,234.45	0.32261	0.81096	2.49516	6,486.68
2038	0.36191	0.14365	3.26918	3.43601	0.03486	0.04031	4.96527	5.00558	0.04031	0.84673	0.88704	—	4,286.45	4,286.45	0.16951	0.52402	1.60715	4,448.45
2039	0.24337	0.12827	1.66553	2.61129	0.02278	0.01655	3.02981	3.04636	0.01655	0.57400	0.59055	—	2,854.58	2,854.58	0.08437	0.28694	1.04866	2,943.25
2040	0.03132	0.01959	0.14216	0.36196	0.00264	0.00065	0.33252	0.33317	0.00065	0.07054	0.07119	—	340.344	340.344	0.00621	0.02564	0.12131	348.261
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.10373	0.03360	1.03595	0.90653	0.00951	0.01216	2.00241	2.01457	0.01216	0.28271	0.29487	—	1,032.18	1,032.18	0.05341	0.13426	0.41310	1,073.94
2038	0.06605	0.02622	0.59663	0.62707	0.00636	0.00736	0.90616	0.91352	0.00736	0.15453	0.16188	—	709.671	709.671	0.02806	0.08676	0.26608	736.492
2039	0.04441	0.02341	0.30396	0.47656	0.00416	0.00302	0.55294	0.55596	0.00302	0.10476	0.10778	—	472.608	472.608	0.01397	0.04751	0.17362	487.288
2040	0.00572	0.00358	0.02594	0.06606	0.00048	0.00012	0.06068	0.06080	0.00012	0.01287	0.01299	—	56.3478	56.3478	0.00103	0.00425	0.02008	57.6587

3. Construction Emissions Details

3.1. Phase 1 Site Prep (2037)

3.1.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00490	0.84391	8.48854	9.03420	0.03627	0.16529	—	0.16529	0.15207	—	0.15207	—	3,907.07	3,907.07	0.15849	0.03170	—	3,920.47
Demolition	—	—	—	—	—	—	2.32589	2.32589	—	0.35221	0.35221	—	—	—	—	—	—	—
Onsite truck	0.00441	0.00282	0.05979	0.03598	0.00088	0.00000	0.03091	0.03091	0.00000	0.00751	0.00751	—	74.0275	74.0275	0.00176	0.00864	0.09269	76.7397
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00490	0.84391	8.48854	9.03420	0.03627	0.16529	—	0.16529	0.15207	—	0.15207	—	3,907.07	3,907.07	0.15849	0.03170	—	3,920.47
Demolition	—	—	—	—	—	—	2.32589	2.32589	—	0.35221	0.35221	—	—	—	—	—	—	—
Onsite truck	0.00441	0.00265	0.06261	0.03898	0.00088	0.00000	0.03091	0.03091	0.00000	0.00751	0.00751	—	74.1048	74.1048	0.00176	0.00864	0.00241	76.7266
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06332	0.05318	0.53489	0.56928	0.00229	0.01042	—	0.01042	0.00958	—	0.00958	—	246.199	246.199	0.00999	0.00200	—	247.044

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Demolition	—	—	—	—	—	—	0.14656	0.14656	—	0.02219	0.02219	—	—	—	—	—	—	—
Onsite truck	0.00028	0.00017	0.00388	0.00240	0.00006	0.00000	0.00194	0.00194	0.00000	0.00047	0.00047	—	4.66676	4.66676	0.00011	0.00054	0.00252	4.83434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01156	0.00970	0.09762	0.10389	0.00042	0.00190	—	0.00190	0.00175	—	0.00175	—	40.7610	40.7610	0.00165	0.00033	—	40.9009
Demolition	—	—	—	—	—	—	0.02675	0.02675	—	0.00405	0.00405	—	—	—	—	—	—	—
Onsite truck	0.00005	0.00003	0.00071	0.00044	0.00001	0.00000	0.00035	0.00035	0.00000	0.00009	0.00009	—	0.77264	0.77264	0.00002	0.00009	0.00042	0.80038

3.1.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12236	0.12125	0.07496	2.00951	0.00000	0.00000	0.88317	0.88317	0.00000	0.20701	0.20701	—	764.209	764.209	0.00441	0.00331	0.81968	766.125
Vendor	0.03439	0.01905	0.50742	0.22434	0.01323	0.00000	0.46361	0.46361	0.00000	0.11259	0.11259	—	1,066.93	1,066.93	0.01587	0.12117	1.39030	1,104.83
Hauling	0.15689	0.03517	1.81600	1.18933	0.01082	0.02164	7.68600	7.70764	0.02164	0.84456	0.86620	—	1,347.59	1,347.59	0.10910	0.21550	0.98718	1,415.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12125	0.09149	0.10692	1.63363	0.00000	0.00000	0.88317	0.88317	0.00000	0.20701	0.20701	—	712.185	712.185	0.00551	0.00331	0.02124	713.329
Vendor	0.03439	0.01852	0.52646	0.22276	0.01323	0.00000	0.46361	0.46361	0.00000	0.11259	0.11259	—	1,067.15	1,067.15	0.01587	0.12117	0.03613	1,103.69

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.15419	0.03246	1.91970	1.20105	0.01172	0.02164	7.68600	7.70764	0.02164	0.84456	0.86620	—	1,348.67	1,348.67	0.10820	0.21550	0.02569	1,415.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00750	0.00563	0.00667	0.10245	0.00000	0.00000	0.05538	0.05538	0.00000	0.01298	0.01298	—	45.0731	45.0731	0.00035	0.00021	0.02230	45.1661
Vendor	0.00217	0.00117	0.03297	0.01454	0.00083	0.00000	0.02908	0.02908	0.00000	0.00706	0.00706	—	67.2367	67.2367	0.00100	0.00764	0.03778	69.5748
Hauling	0.00983	0.00216	0.11858	0.07523	0.00074	0.00136	0.47474	0.47610	0.00136	0.05225	0.05361	—	84.9452	84.9452	0.00688	0.01358	0.02691	89.1907
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00137	0.00103	0.00122	0.01870	0.00000	0.00000	0.01011	0.01011	0.00000	0.00237	0.00237	—	7.46236	7.46236	0.00006	0.00003	0.00369	7.47777
Vendor	0.00040	0.00021	0.00602	0.00265	0.00015	0.00000	0.00531	0.00531	0.00000	0.00129	0.00129	—	11.1318	11.1318	0.00017	0.00126	0.00626	11.5189
Hauling	0.00179	0.00039	0.02164	0.01373	0.00013	0.00025	0.08664	0.08689	0.00025	0.00954	0.00978	—	14.0636	14.0636	0.00114	0.00225	0.00446	14.7665

3.1.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40161	0.39543	6.58397	19.8233	0.03627	0.09712	—	0.09712	0.09700	—	0.09700	—	3,907.86	3,907.86	0.15852	0.03170	—	3,921.27
Demolition	—	—	—	—	—	—	2.32589	2.32589	—	0.35221	0.35221	—	—	—	—	—	—	—
Onsite truck	0.00441	0.00282	0.05979	0.03598	0.00088	0.00000	0.03091	0.03091	0.00000	0.00751	0.00751	—	74.0275	74.0275	0.00176	0.00864	0.09269	76.7397

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40161	0.39543	6.58397	19.8233	0.03627	0.09712	—	0.09712	0.09700	—	0.09700	—	3,907.86	3,907.86	0.15852	0.03170	—	3,921.27
Demolition	—	—	—	—	—	—	2.32589	2.32589	—	0.35221	0.35221	—	—	—	—	—	—	—
Onsite truck	0.00441	0.00265	0.06261	0.03898	0.00088	0.00000	0.03091	0.03091	0.00000	0.00751	0.00751	—	74.1048	74.1048	0.00176	0.00864	0.00241	76.7266
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02531	0.02492	0.41488	1.24914	0.00229	0.00612	—	0.00612	0.00611	—	0.00611	—	246.249	246.249	0.00999	0.00200	—	247.094
Demolition	—	—	—	—	—	—	0.14656	0.14656	—	0.02219	0.02219	—	—	—	—	—	—	—
Onsite truck	0.00028	0.00017	0.00388	0.00240	0.00006	0.00000	0.00194	0.00194	0.00000	0.00047	0.00047	—	4.66676	4.66676	0.00011	0.00054	0.00252	4.83434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00462	0.00455	0.07572	0.22797	0.00042	0.00112	—	0.00112	0.00112	—	0.00112	—	40.7693	40.7693	0.00165	0.00033	—	40.9092
Demolition	—	—	—	—	—	—	0.02675	0.02675	—	0.00405	0.00405	—	—	—	—	—	—	—
Onsite truck	0.00005	0.00003	0.00071	0.00044	0.00001	0.00000	0.00035	0.00035	0.00000	0.00009	0.00009	—	0.77264	0.77264	0.00002	0.00009	0.00042	0.80038

3.1.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12236	0.12125	0.07496	2.00951	0.00000	0.00000	0.88317	0.88317	0.00000	0.20701	0.20701	—	764.209	764.209	0.00441	0.00331	0.81968	766.125
Vendor	0.03439	0.01905	0.50742	0.22434	0.01323	0.00000	0.46361	0.46361	0.00000	0.11259	0.11259	—	1,066.93	1,066.93	0.01587	0.12117	1.39030	1,104.83
Hauling	0.15689	0.03517	1.81600	1.18933	0.01082	0.02164	7.68600	7.70764	0.02164	0.84456	0.86620	—	1,347.59	1,347.59	0.10910	0.21550	0.98718	1,415.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12125	0.09149	0.10692	1.63363	0.00000	0.00000	0.88317	0.88317	0.00000	0.20701	0.20701	—	712.185	712.185	0.00551	0.00331	0.02124	713.329
Vendor	0.03439	0.01852	0.52646	0.22276	0.01323	0.00000	0.46361	0.46361	0.00000	0.11259	0.11259	—	1,067.15	1,067.15	0.01587	0.12117	0.03613	1,103.69
Hauling	0.15419	0.03246	1.91970	1.20105	0.01172	0.02164	7.68600	7.70764	0.02164	0.84456	0.86620	—	1,348.67	1,348.67	0.10820	0.21550	0.02569	1,415.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00750	0.00563	0.00667	0.10245	0.00000	0.00000	0.05538	0.05538	0.00000	0.01298	0.01298	—	45.0731	45.0731	0.00035	0.00021	0.02230	45.1661
Vendor	0.00217	0.00117	0.03297	0.01454	0.00083	0.00000	0.02908	0.02908	0.00000	0.00706	0.00706	—	67.2367	67.2367	0.00100	0.00764	0.03778	69.5748
Hauling	0.00983	0.00216	0.11858	0.07523	0.00074	0.00136	0.47474	0.47610	0.00136	0.05225	0.05361	—	84.9452	84.9452	0.00688	0.01358	0.02691	89.1907
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00137	0.00103	0.00122	0.01870	0.00000	0.00000	0.01011	0.01011	0.00000	0.00237	0.00237	—	7.46236	7.46236	0.00006	0.00003	0.00369	7.47777
Vendor	0.00040	0.00021	0.00602	0.00265	0.00015	0.00000	0.00531	0.00531	0.00000	0.00129	0.00129	—	11.1318	11.1318	0.00017	0.00126	0.00626	11.5189
Hauling	0.00179	0.00039	0.02164	0.01373	0.00013	0.00025	0.08664	0.08689	0.00025	0.00954	0.00978	—	14.0636	14.0636	0.00114	0.00225	0.00446	14.7665

3.2. Phase 2 Earthwork (2037)

3.2.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.07885	1.74681	10.9363	16.4184	0.04961	0.47358	—	0.47358	0.43569	—	0.43569	—	5,370.76	5,370.76	0.21786	0.04357	—	5,389.19
Dust From Material Movement	—	—	—	—	—	—	3.36793	3.36793	—	1.75879	1.75879	—	—	—	—	—	—	—
Onsite truck	0.00298	0.00190	0.04036	0.02429	0.00060	0.00000	0.02086	0.02086	0.00000	0.00507	0.00507	—	49.9686	49.9686	0.00119	0.00583	0.06256	51.7993
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24491	0.20579	1.28839	1.93422	0.00584	0.05579	—	0.05579	0.05133	—	0.05133	—	632.720	632.720	0.02567	0.00513	—	634.891
Dust From Material Movement	—	—	—	—	—	—	0.39677	0.39677	—	0.20720	0.20720	—	—	—	—	—	—	—
Onsite truck	0.00035	0.00021	0.00489	0.00303	0.00007	0.00000	0.00245	0.00245	0.00000	0.00059	0.00059	—	5.88925	5.88925	0.00014	0.00069	0.00318	6.10073
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.04470	0.03756	0.23513	0.35299	0.00107	0.01018	—	0.01018	0.00937	—	0.00937	—	104.754	104.754	0.00425	0.00085	—	105.113
Dust From Material Movement	—	—	—	—	—	—	0.07241	0.07241	—	0.03781	0.03781	—	—	—	—	—	—	—
Onsite truck	0.00006	0.00004	0.00089	0.00055	0.00001	0.00000	0.00045	0.00045	0.00000	0.00011	0.00011	—	0.97503	0.97503	0.00002	0.00011	0.00053	1.01004

3.2.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09789	0.09700	0.05997	1.60761	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	611.367	611.367	0.00353	0.00265	0.65574	612.900
Vendor	0.02336	0.01294	0.34462	0.15237	0.00898	0.00000	0.31487	0.31487	0.00000	0.07647	0.07647	—	724.625	724.625	0.01078	0.08229	0.94425	750.362
Hauling	2.58565	0.44228	30.5090	19.0692	0.21264	0.42527	65.9090	66.3343	0.42527	8.10750	8.53277	—	25,870.0	25,870.0	1.91372	4.13364	19.3996	27,169.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01122	0.00842	0.00997	0.15324	0.00000	0.00000	0.08283	0.08283	0.00000	0.01941	0.01941	—	67.4136	67.4136	0.00052	0.00031	0.03335	67.5528
Vendor	0.00275	0.00148	0.04187	0.01846	0.00106	0.00000	0.03693	0.03693	0.00000	0.00897	0.00897	—	85.3736	85.3736	0.00127	0.00969	0.04798	88.3424
Hauling	0.30361	0.05110	3.73249	2.25152	0.02605	0.05010	7.62144	7.67154	0.05010	0.94026	0.99036	—	3,048.20	3,048.20	0.22545	0.48698	0.98868	3,199.94

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00205	0.00154	0.00182	0.02797	0.00000	0.00000	0.01512	0.01512	0.00000	0.00354	0.00354	—	11.1611	11.1611	0.00009	0.00005	0.00552	11.1841
Vendor	0.00050	0.00027	0.00764	0.00337	0.00019	0.00000	0.00674	0.00674	0.00000	0.00164	0.00164	—	14.1346	14.1346	0.00021	0.00161	0.00794	14.6261
Hauling	0.05541	0.00933	0.68118	0.41090	0.00475	0.00914	1.39091	1.40006	0.00914	0.17160	0.18074	—	504.664	504.664	0.03733	0.08062	0.16369	529.787

3.2.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50831	0.50831	2.64323	27.6660	0.04963	0.10166	—	0.10166	0.10166	—	0.10166	—	5,373.11	5,373.11	0.21796	0.04359	—	5,391.55
Dust From Material Movement	—	—	—	—	—	—	3.36793	3.36793	—	1.75879	1.75879	—	—	—	—	—	—	—
Onsite truck	0.00298	0.00190	0.04036	0.02429	0.00060	0.00000	0.02086	0.02086	0.00000	0.00507	0.00507	—	49.9686	49.9686	0.00119	0.00583	0.06256	51.7993
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05988	0.05988	0.31139	3.25928	0.00585	0.01198	—	0.01198	0.01198	—	0.01198	—	632.996	632.996	0.02568	0.00514	—	635.168

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	0.39677	0.39677	—	0.20720	0.20720	—	—	—	—	—	—	—
Onsite truck	0.00035	0.00021	0.00489	0.00303	0.00007	0.00000	0.00245	0.00245	0.00000	0.00059	0.00059	—	5.88925	5.88925	0.00014	0.00069	0.00318	6.10073
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01093	0.01093	0.05683	0.59482	0.00107	0.00219	—	0.00219	0.00219	—	0.00219	—	104.800	104.800	0.00425	0.00085	—	105.159
Dust From Material Movement	—	—	—	—	—	—	0.07241	0.07241	—	0.03781	0.03781	—	—	—	—	—	—	—
Onsite truck	0.00006	0.00004	0.00089	0.00055	0.00001	0.00000	0.00045	0.00045	0.00000	0.00011	0.00011	—	0.97503	0.97503	0.00002	0.00011	0.00053	1.01004

3.2.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09789	0.09700	0.05997	1.60761	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	611.367	611.367	0.00353	0.00265	0.65574	612.900
Vendor	0.02336	0.01294	0.34462	0.15237	0.00898	0.00000	0.31487	0.31487	0.00000	0.07647	0.07647	—	724.625	724.625	0.01078	0.08229	0.94425	750.362
Hauling	2.58565	0.44228	30.5090	19.0692	0.21264	0.42527	65.9090	66.3343	0.42527	8.10750	8.53277	—	25,870.0	25,870.0	1.91372	4.13364	19.3996	27,169.0

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01122	0.00842	0.00997	0.15324	0.00000	0.00000	0.08283	0.08283	0.00000	0.01941	0.01941	—	67.4136	67.4136	0.00052	0.00031	0.03335	67.5528
Vendor	0.00275	0.00148	0.04187	0.01846	0.00106	0.00000	0.03693	0.03693	0.00000	0.00897	0.00897	—	85.3736	85.3736	0.00127	0.00969	0.04798	88.3424
Hauling	0.30361	0.05110	3.73249	2.25152	0.02605	0.05010	7.62144	7.67154	0.05010	0.94026	0.99036	—	3,048.20	3,048.20	0.22545	0.48698	0.98868	3,199.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00205	0.00154	0.00182	0.02797	0.00000	0.00000	0.01512	0.01512	0.00000	0.00354	0.00354	—	11.1611	11.1611	0.00009	0.00005	0.00552	11.1841
Vendor	0.00050	0.00027	0.00764	0.00337	0.00019	0.00000	0.00674	0.00674	0.00000	0.00164	0.00164	—	14.1346	14.1346	0.00021	0.00161	0.00794	14.6261
Hauling	0.05541	0.00933	0.68118	0.41090	0.00475	0.00914	1.39091	1.40006	0.00914	0.17160	0.18074	—	504.664	504.664	0.03733	0.08062	0.16369	529.787

3.3. Phase 3 Foundation (2037)

3.3.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.85680	2.39289	14.1991	25.6658	0.07473	0.45358	—	0.45358	0.41729	—	0.41729	—	7,816.15	7,816.15	0.31706	0.06341	—	7,842.98

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	0.01016	0.01016	—	0.00120	0.00120	—	—	—	—	—	—	—
Onsite truck	0.01262	0.00808	0.17115	0.10299	0.00252	0.00000	0.08847	0.08847	0.00000	0.02149	0.02149	—	211.904	211.904	0.00505	0.02474	0.26532	219.667
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.85680	2.39289	14.1991	25.6658	0.07473	0.45358	—	0.45358	0.41729	—	0.41729	—	7,816.15	7,816.15	0.31706	0.06341	—	7,842.98
Dust From Material Movement	—	—	—	—	—	—	0.01016	0.01016	—	0.00120	0.00120	—	—	—	—	—	—	—
Onsite truck	0.01262	0.00757	0.17922	0.11157	0.00252	0.00000	0.08847	0.08847	0.00000	0.02149	0.02149	—	212.125	212.125	0.00505	0.02474	0.00689	219.630
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.19080	0.99743	5.91859	10.6983	0.03115	0.18907	—	0.18907	0.17394	—	0.17394	—	3,258.01	3,258.01	0.13216	0.02643	—	3,269.19
Dust From Material Movement	—	—	—	—	—	—	0.00423	0.00423	—	0.00050	0.00050	—	—	—	—	—	—	—
Onsite truck	0.00526	0.00316	0.07344	0.04546	0.00105	0.00000	0.03671	0.03671	0.00000	0.00892	0.00892	—	88.3659	88.3659	0.00210	0.01031	0.04770	91.5390

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21732	0.18203	1.08014	1.95244	0.00569	0.03450	—	0.03450	0.03174	—	0.03174	—	539.400	539.400	0.02188	0.00438	—	541.251
Dust From Material Movement	—	—	—	—	—	—	0.00077	0.00077	—	0.00009	0.00009	—	—	—	—	—	—	—
Onsite truck	0.00096	0.00058	0.01340	0.00830	0.00019	0.00000	0.00670	0.00670	0.00000	0.00163	0.00163	—	14.6300	14.6300	0.00035	0.00171	0.00790	15.1553

3.3.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26918	0.26676	0.16491	4.42093	0.00000	0.00000	1.94298	1.94298	0.00000	0.45543	0.45543	—	1,681.26	1,681.26	0.00970	0.00728	1.80329	1,685.47
Vendor	0.09830	0.05445	1.45036	0.64125	0.03781	0.00000	1.32514	1.32514	0.00000	0.32183	0.32183	—	3,049.65	3,049.65	0.04537	0.34633	3.97394	3,157.96
Hauling	0.19498	0.02474	2.33705	1.40461	0.01819	0.03638	3.21030	3.24667	0.03638	0.45143	0.48781	—	2,180.60	2,180.60	0.15157	0.34824	1.65938	2,289.82
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26676	0.20128	0.23523	3.59398	0.00000	0.00000	1.94298	1.94298	0.00000	0.45543	0.45543	—	1,566.81	1,566.81	0.01213	0.00728	0.04673	1,569.32
Vendor	0.09830	0.05293	1.50481	0.63671	0.03781	0.00000	1.32514	1.32514	0.00000	0.32183	0.32183	—	3,050.28	3,050.28	0.04537	0.34633	0.10327	3,154.73
Hauling	0.19425	0.02401	2.47189	1.40776	0.01843	0.03638	3.21030	3.24667	0.03638	0.45143	0.48781	—	2,180.88	2,180.88	0.15133	0.34824	0.04317	2,288.49

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10917	0.08188	0.09704	1.49100	0.00000	0.00000	0.80594	0.80594	0.00000	0.18885	0.18885	—	655.939	655.939	0.00505	0.00303	0.32452	657.294
Vendor	0.04098	0.02206	0.62347	0.27485	0.01576	0.00000	0.54989	0.54989	0.00000	0.13353	0.13353	—	1,271.29	1,271.29	0.01891	0.14436	0.71442	1,315.49
Hauling	0.08117	0.01021	1.01337	0.58599	0.00768	0.01516	1.31589	1.33105	0.01516	0.18577	0.20094	—	908.988	908.988	0.06318	0.14516	0.29922	954.123
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01992	0.01494	0.01771	0.27211	0.00000	0.00000	0.14708	0.14708	0.00000	0.03446	0.03446	—	108.598	108.598	0.00084	0.00050	0.05373	108.822
Vendor	0.00748	0.00403	0.11378	0.05016	0.00288	0.00000	0.10036	0.10036	0.00000	0.02437	0.02437	—	210.476	210.476	0.00313	0.02390	0.11828	217.795
Hauling	0.01481	0.00186	0.18494	0.10694	0.00140	0.00277	0.24015	0.24292	0.00277	0.03390	0.03667	—	150.493	150.493	0.01046	0.02403	0.04954	157.966

3.3.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.66972	1.48359	8.23903	39.6807	0.07761	0.19058	—	0.19058	0.18417	—	0.18417	—	8,127.46	8,127.46	0.32969	0.06594	—	8,155.35
Dust From Material Movement	—	—	—	—	—	—	0.01016	0.01016	—	0.00120	0.00120	—	—	—	—	—	—	—
Onsite truck	0.01262	0.00808	0.17115	0.10299	0.00252	0.00000	0.08847	0.08847	0.00000	0.02149	0.02149	—	211.904	211.904	0.00505	0.02474	0.26532	219.667

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.66972	1.48359	8.23903	39.6807	0.07761	0.19058	—	0.19058	0.18417	—	0.18417	—	8,127.46	8,127.46	0.32969	0.06594	—	8,155.35
Dust From Material Movement	—	—	—	—	—	—	0.01016	0.01016	—	0.00120	0.00120	—	—	—	—	—	—	—
Onsite truck	0.01262	0.00757	0.17922	0.11157	0.00252	0.00000	0.08847	0.08847	0.00000	0.02149	0.02149	—	212.125	212.125	0.00505	0.02474	0.00689	219.630
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.69599	0.61840	3.43427	16.5401	0.03235	0.07944	—	0.07944	0.07677	—	0.07677	—	3,387.77	3,387.77	0.13742	0.02748	—	3,399.39
Dust From Material Movement	—	—	—	—	—	—	0.00423	0.00423	—	0.00050	0.00050	—	—	—	—	—	—	—
Onsite truck	0.00526	0.00316	0.07344	0.04546	0.00105	0.00000	0.03671	0.03671	0.00000	0.00892	0.00892	—	88.3659	88.3659	0.00210	0.01031	0.04770	91.5390
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12702	0.11286	0.62675	3.01857	0.00590	0.01450	—	0.01450	0.01401	—	0.01401	—	560.884	560.884	0.02275	0.00455	—	562.808

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	0.00077	0.00077	—	0.00009	0.00009	—	—	—	—	—	—	—
Onsite truck	0.00096	0.00058	0.01340	0.00830	0.00019	0.00000	0.00670	0.00670	0.00000	0.00163	0.00163	—	14.6300	14.6300	0.00035	0.00171	0.00790	15.1553

3.3.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26918	0.26676	0.16491	4.42093	0.00000	0.00000	1.94298	1.94298	0.00000	0.45543	0.45543	—	1,681.26	1,681.26	0.00970	0.00728	1.80329	1,685.47
Vendor	0.09830	0.05445	1.45036	0.64125	0.03781	0.00000	1.32514	1.32514	0.00000	0.32183	0.32183	—	3,049.65	3,049.65	0.04537	0.34633	3.97394	3,157.96
Hauling	0.19498	0.02474	2.33705	1.40461	0.01819	0.03638	3.21030	3.24667	0.03638	0.45143	0.48781	—	2,180.60	2,180.60	0.15157	0.34824	1.65938	2,289.82
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26676	0.20128	0.23523	3.59398	0.00000	0.00000	1.94298	1.94298	0.00000	0.45543	0.45543	—	1,566.81	1,566.81	0.01213	0.00728	0.04673	1,569.32
Vendor	0.09830	0.05293	1.50481	0.63671	0.03781	0.00000	1.32514	1.32514	0.00000	0.32183	0.32183	—	3,050.28	3,050.28	0.04537	0.34633	0.10327	3,154.73
Hauling	0.19425	0.02401	2.47189	1.40776	0.01843	0.03638	3.21030	3.24667	0.03638	0.45143	0.48781	—	2,180.88	2,180.88	0.15133	0.34824	0.04317	2,288.49
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10917	0.08188	0.09704	1.49100	0.00000	0.00000	0.80594	0.80594	0.00000	0.18885	0.18885	—	655.939	655.939	0.00505	0.00303	0.32452	657.294
Vendor	0.04098	0.02206	0.62347	0.27485	0.01576	0.00000	0.54989	0.54989	0.00000	0.13353	0.13353	—	1,271.29	1,271.29	0.01891	0.14436	0.71442	1,315.49

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.08117	0.01021	1.01337	0.58599	0.00768	0.01516	1.31589	1.33105	0.01516	0.18577	0.20094	—	908.988	908.988	0.06318	0.14516	0.29922	954.123
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01992	0.01494	0.01771	0.27211	0.00000	0.00000	0.14708	0.14708	0.00000	0.03446	0.03446	—	108.598	108.598	0.00084	0.00050	0.05373	108.822
Vendor	0.00748	0.00403	0.11378	0.05016	0.00288	0.00000	0.10036	0.10036	0.00000	0.02437	0.02437	—	210.476	210.476	0.00313	0.02390	0.11828	217.795
Hauling	0.01481	0.00186	0.18494	0.10694	0.00140	0.00277	0.24015	0.24292	0.00277	0.03390	0.03667	—	150.493	150.493	0.01046	0.02403	0.04954	157.966

3.4. Phase 3 Foundation (2038)

3.4.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.82445	2.36573	13.7310	25.5370	0.07473	0.43581	—	0.43581	0.40095	—	0.40095	—	7,816.14	7,816.14	0.31706	0.06341	—	7,842.96
Dust From Material Movement	—	—	—	—	—	—	0.01016	0.01016	—	0.00120	0.00120	—	—	—	—	—	—	—
Onsite truck	0.01262	0.00757	0.17165	0.10905	0.00252	0.00000	0.08847	0.08847	0.00000	0.02149	0.02149	—	202.651	202.651	0.00505	0.02474	0.00606	210.155

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33164	0.27778	1.61225	2.99847	0.00878	0.05117	—	0.05117	0.04708	—	0.04708	—	917.746	917.746	0.03723	0.00745	—	920.896
Dust From Material Movement	—	—	—	—	—	—	0.00119	0.00119	—	0.00014	0.00014	—	—	—	—	—	—	—
Onsite truck	0.00148	0.00089	0.01944	0.01227	0.00030	0.00000	0.01034	0.01034	0.00000	0.00251	0.00251	—	23.7790	23.7790	0.00059	0.00290	0.01183	24.6712
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06052	0.05069	0.29424	0.54722	0.00160	0.00934	—	0.00934	0.00859	—	0.00859	—	151.943	151.943	0.00616	0.00123	—	152.465
Dust From Material Movement	—	—	—	—	—	—	0.00022	0.00022	—	0.00003	0.00003	—	—	—	—	—	—	—
Onsite truck	0.00027	0.00016	0.00355	0.00224	0.00005	0.00000	0.00189	0.00189	0.00000	0.00046	0.00046	—	3.93688	3.93688	0.00010	0.00048	0.00196	4.08460

3.4.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25948	0.19401	0.23523	3.50667	0.00000	0.00000	1.94298	1.94298	0.00000	0.45543	0.45543	—	1,553.95	1,553.95	0.01213	0.00728	0.03953	1,556.46
Vendor	0.09830	0.05293	1.42163	0.62915	0.03781	0.00000	1.32514	1.32514	0.00000	0.32183	0.32183	—	2,909.11	2,909.11	0.04537	0.34633	0.09083	3,013.54
Hauling	0.17582	0.02401	2.41611	1.33525	0.01843	0.03638	3.19211	3.22848	0.03638	0.45143	0.48781	—	2,139.13	2,139.13	0.13289	0.34824	0.03745	2,246.27
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03018	0.02249	0.02705	0.40320	0.00000	0.00000	0.22702	0.22702	0.00000	0.05320	0.05320	—	183.256	183.256	0.00114	0.00085	0.07726	183.616
Vendor	0.01154	0.00622	0.16124	0.07227	0.00444	0.00000	0.15490	0.15490	0.00000	0.03761	0.03761	—	341.531	341.531	0.00533	0.04067	0.17712	353.960
Hauling	0.02070	0.00288	0.27891	0.15655	0.00214	0.00427	0.36854	0.37281	0.00427	0.05233	0.05660	—	251.150	251.150	0.01563	0.04089	0.07299	263.799
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00551	0.00411	0.00494	0.07358	0.00000	0.00000	0.04143	0.04143	0.00000	0.00971	0.00971	—	30.3400	30.3400	0.00019	0.00014	0.01279	30.3997
Vendor	0.00211	0.00113	0.02943	0.01319	0.00081	0.00000	0.02827	0.02827	0.00000	0.00686	0.00686	—	56.5444	56.5444	0.00088	0.00673	0.02932	58.6021
Hauling	0.00378	0.00052	0.05090	0.02857	0.00039	0.00078	0.06726	0.06804	0.00078	0.00955	0.01033	—	41.5808	41.5808	0.00259	0.00677	0.01208	43.6749

3.4.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	1.66499	1.47964	8.12828	39.6748	0.07761	0.18699	—	0.18699	0.18087	—	0.18087	—	8,127.45	8,127.45	0.32968	0.06594	—	8,155.34
Dust From Material Movement	—	—	—	—	—	—	0.01016	0.01016	—	0.00120	0.00120	—	—	—	—	—	—	—
Onsite truck	0.01262	0.00757	0.17165	0.10905	0.00252	0.00000	0.08847	0.08847	0.00000	0.02149	0.02149	—	202.651	202.651	0.00505	0.02474	0.00606	210.155
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19550	0.17373	0.95440	4.65849	0.00911	0.02196	—	0.02196	0.02124	—	0.02124	—	954.299	954.299	0.03871	0.00774	—	957.574
Dust From Material Movement	—	—	—	—	—	—	0.00119	0.00119	—	0.00014	0.00014	—	—	—	—	—	—	—
Onsite truck	0.00148	0.00089	0.01944	0.01227	0.00030	0.00000	0.01034	0.01034	0.00000	0.00251	0.00251	—	23.7790	23.7790	0.00059	0.00290	0.01183	24.6712
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03568	0.03171	0.17418	0.85017	0.00166	0.00401	—	0.00401	0.00388	—	0.00388	—	157.995	157.995	0.00641	0.00128	—	158.537
Dust From Material Movement	—	—	—	—	—	—	0.00022	0.00022	—	0.00003	0.00003	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00027	0.00016	0.00355	0.00224	0.00005	0.00000	0.00189	0.00189	0.00000	0.00046	0.00046	—	3.93688	3.93688	0.00010	0.00048	0.00196	4.08460

3.4.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25948	0.19401	0.23523	3.50667	0.00000	0.00000	1.94298	1.94298	0.00000	0.45543	0.45543	—	1,553.95	1,553.95	0.01213	0.00728	0.03953	1,556.46
Vendor	0.09830	0.05293	1.42163	0.62915	0.03781	0.00000	1.32514	1.32514	0.00000	0.32183	0.32183	—	2,909.11	2,909.11	0.04537	0.34633	0.09083	3,013.54
Hauling	0.17582	0.02401	2.41611	1.33525	0.01843	0.03638	3.19211	3.22848	0.03638	0.45143	0.48781	—	2,139.13	2,139.13	0.13289	0.34824	0.03745	2,246.27
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03018	0.02249	0.02705	0.40320	0.00000	0.00000	0.22702	0.22702	0.00000	0.05320	0.05320	—	183.256	183.256	0.00114	0.00085	0.07726	183.616
Vendor	0.01154	0.00622	0.16124	0.07227	0.00444	0.00000	0.15490	0.15490	0.00000	0.03761	0.03761	—	341.531	341.531	0.00533	0.04067	0.17712	353.960
Hauling	0.02070	0.00288	0.27891	0.15655	0.00214	0.00427	0.36854	0.37281	0.00427	0.05233	0.05660	—	251.150	251.150	0.01563	0.04089	0.07299	263.799
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00551	0.00411	0.00494	0.07358	0.00000	0.00000	0.04143	0.04143	0.00000	0.00971	0.00971	—	30.3400	30.3400	0.00019	0.00014	0.01279	30.3997
Vendor	0.00211	0.00113	0.02943	0.01319	0.00081	0.00000	0.02827	0.02827	0.00000	0.00686	0.00686	—	56.5444	56.5444	0.00088	0.00673	0.02932	58.6021
Hauling	0.00378	0.00052	0.05090	0.02857	0.00039	0.00078	0.06726	0.06804	0.00078	0.00955	0.01033	—	41.5808	41.5808	0.00259	0.00677	0.01208	43.6749

3.5. Phase 4 Super Structureng Construction (2038)

3.5.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09438	0.91890	6.20040	12.5789	0.03281	0.20078	—	0.20078	0.18471	—	0.18471	—	3,525.93	3,525.93	0.14303	0.02861	—	3,538.03
Onsite truck	0.00485	0.00291	0.06189	0.03803	0.00097	0.00000	0.03400	0.03400	0.00000	0.00826	0.00826	—	77.7868	77.7868	0.00194	0.00931	0.08975	80.7002
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09438	0.91890	6.20040	12.5789	0.03281	0.20078	—	0.20078	0.18471	—	0.18471	—	3,525.93	3,525.93	0.14303	0.02861	—	3,538.03
Onsite truck	0.00485	0.00291	0.06596	0.04191	0.00097	0.00000	0.03400	0.03400	0.00000	0.00826	0.00826	—	77.8747	77.8747	0.00194	0.00951	0.00233	80.7584
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77528	0.65096	4.39245	8.91106	0.02324	0.14223	—	0.14223	0.13085	—	0.13085	—	2,497.82	2,497.82	0.10132	0.02026	—	2,506.40
Onsite truck	0.00344	0.00206	0.04508	0.02845	0.00069	0.00000	0.02398	0.02398	0.00000	0.00582	0.00582	—	55.1312	55.1312	0.00137	0.00673	0.02742	57.1998
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.14149	0.11880	0.80162	1.62627	0.00424	0.02596	—	0.02596	0.02388	—	0.02388	—	413.543	413.543	0.01678	0.00336	—	414.962
Onsite truck	0.00063	0.00038	0.00823	0.00519	0.00013	0.00000	0.00438	0.00438	0.00000	0.00106	0.00106	—	9.12760	9.12760	0.00023	0.00111	0.00454	9.47008

3.5.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14154	0.10714	0.08995	2.33470	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	909.551	909.551	0.00529	0.00397	0.83229	911.698
Vendor	0.03769	0.02029	0.50966	0.22961	0.01450	0.00000	0.50803	0.50803	0.00000	0.12338	0.12338	—	1,115.05	1,115.05	0.01739	0.13220	1.34113	1,156.22
Hauling	0.24546	0.03371	3.17199	1.84754	0.02543	0.05087	4.46392	4.51479	0.05087	0.63130	0.68217	—	2,988.84	2,988.84	0.18540	0.48663	2.01135	3,140.50
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14154	0.10582	0.12831	1.91273	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	847.608	847.608	0.00661	0.00397	0.02156	848.978
Vendor	0.03769	0.02029	0.54503	0.24120	0.01450	0.00000	0.50803	0.50803	0.00000	0.12338	0.12338	—	1,115.30	1,115.30	0.01739	0.13278	0.03482	1,155.34
Hauling	0.24423	0.03279	3.35953	1.85153	0.02574	0.05087	4.46392	4.51479	0.05087	0.63130	0.68217	—	2,989.22	2,989.22	0.18509	0.48663	0.05238	3,138.91
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09933	0.07403	0.08902	1.32689	0.00000	0.00000	0.74712	0.74712	0.00000	0.17507	0.17507	—	603.077	603.077	0.00375	0.00281	0.25427	604.263
Vendor	0.02670	0.01438	0.37296	0.16718	0.01027	0.00000	0.35829	0.35829	0.00000	0.08701	0.08701	—	789.986	789.986	0.01232	0.09406	0.40969	818.734
Hauling	0.17345	0.02366	2.34000	1.30991	0.01802	0.03604	3.10940	3.14544	0.03604	0.44152	0.47756	—	2,117.45	2,117.45	0.13134	0.34474	0.61581	2,224.08

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01813	0.01351	0.01625	0.24216	0.00000	0.00000	0.13635	0.13635	0.00000	0.03195	0.03195	—	99.8463	99.8463	0.00062	0.00047	0.04210	100.043
Vendor	0.00487	0.00262	0.06807	0.03051	0.00187	0.00000	0.06539	0.06539	0.00000	0.01588	0.01588	—	130.791	130.791	0.00204	0.01557	0.06783	135.551
Hauling	0.03166	0.00432	0.42705	0.23906	0.00329	0.00658	0.56747	0.57404	0.00658	0.08058	0.08715	—	350.568	350.568	0.02174	0.05708	0.10195	368.222

3.5.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49924	0.46123	3.07502	18.2222	0.03281	0.07340	—	0.07340	0.07172	—	0.07172	—	3,526.00	3,526.00	0.14303	0.02861	—	3,538.10
Onsite truck	0.00485	0.00291	0.06189	0.03803	0.00097	0.00000	0.03400	0.03400	0.00000	0.00826	0.00826	—	77.7868	77.7868	0.00194	0.00931	0.08975	80.7002
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49924	0.46123	3.07502	18.2222	0.03281	0.07340	—	0.07340	0.07172	—	0.07172	—	3,526.00	3,526.00	0.14303	0.02861	—	3,538.10
Onsite truck	0.00485	0.00291	0.06596	0.04191	0.00097	0.00000	0.03400	0.03400	0.00000	0.00826	0.00826	—	77.8747	77.8747	0.00194	0.00951	0.00233	80.7584
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.35367	0.32674	2.17839	12.9089	0.02324	0.05199	—	0.05199	0.05081	—	0.05081	—	2,497.87	2,497.87	0.10132	0.02026	—	2,506.44
Onsite truck	0.00344	0.00206	0.04508	0.02845	0.00069	0.00000	0.02398	0.02398	0.00000	0.00582	0.00582	—	55.1312	55.1312	0.00137	0.00673	0.02742	57.1998
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06454	0.05963	0.39756	2.35587	0.00424	0.00949	—	0.00949	0.00927	—	0.00927	—	413.551	413.551	0.01678	0.00336	—	414.970
Onsite truck	0.00063	0.00038	0.00823	0.00519	0.00013	0.00000	0.00438	0.00438	0.00000	0.00106	0.00106	—	9.12760	9.12760	0.00023	0.00111	0.00454	9.47008

3.5.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14154	0.10714	0.08995	2.33470	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	909.551	909.551	0.00529	0.00397	0.83229	911.698
Vendor	0.03769	0.02029	0.50966	0.22961	0.01450	0.00000	0.50803	0.50803	0.00000	0.12338	0.12338	—	1,115.05	1,115.05	0.01739	0.13220	1.34113	1,156.22
Hauling	0.24546	0.03371	3.17199	1.84754	0.02543	0.05087	4.46392	4.51479	0.05087	0.63130	0.68217	—	2,988.84	2,988.84	0.18540	0.48663	2.01135	3,140.50
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14154	0.10582	0.12831	1.91273	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	847.608	847.608	0.00661	0.00397	0.02156	848.978
Vendor	0.03769	0.02029	0.54503	0.24120	0.01450	0.00000	0.50803	0.50803	0.00000	0.12338	0.12338	—	1,115.30	1,115.30	0.01739	0.13278	0.03482	1,155.34
Hauling	0.24423	0.03279	3.35953	1.85153	0.02574	0.05087	4.46392	4.51479	0.05087	0.63130	0.68217	—	2,989.22	2,989.22	0.18509	0.48663	0.05238	3,138.91

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09933	0.07403	0.08902	1.32689	0.00000	0.00000	0.74712	0.74712	0.00000	0.17507	0.17507	—	603.077	603.077	0.00375	0.00281	0.25427	604.263
Vendor	0.02670	0.01438	0.37296	0.16718	0.01027	0.00000	0.35829	0.35829	0.00000	0.08701	0.08701	—	789.986	789.986	0.01232	0.09406	0.40969	818.734
Hauling	0.17345	0.02366	2.34000	1.30991	0.01802	0.03604	3.10940	3.14544	0.03604	0.44152	0.47756	—	2,117.45	2,117.45	0.13134	0.34474	0.61581	2,224.08
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01813	0.01351	0.01625	0.24216	0.00000	0.00000	0.13635	0.13635	0.00000	0.03195	0.03195	—	99.8463	99.8463	0.00062	0.00047	0.04210	100.043
Vendor	0.00487	0.00262	0.06807	0.03051	0.00187	0.00000	0.06539	0.06539	0.00000	0.01588	0.01588	—	130.791	130.791	0.00204	0.01557	0.06783	135.551
Hauling	0.03166	0.00432	0.42705	0.23906	0.00329	0.00658	0.56747	0.57404	0.00658	0.08058	0.08715	—	350.568	350.568	0.02174	0.05708	0.10195	368.222

3.6. Phase 4 Super Structureng Construction (2039)

3.6.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07839	0.90546	5.98518	12.4285	0.03281	0.19366	—	0.19366	0.17817	—	0.17817	—	3,525.93	3,525.93	0.14303	0.02861	—	3,538.03
Onsite truck	0.00466	0.00291	0.05898	0.03628	0.00097	0.00000	0.03400	0.03400	0.00000	0.00826	0.00826	—	74.4877	74.4877	0.00194	0.00931	0.07879	77.3901
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	1.07839	0.90546	5.98518	12.4285	0.03281	0.19366	—	0.19366	0.17817	—	0.17817	—	3,525.93	3,525.93	0.14303	0.02861	—	3,538.03
Onsite truck	0.00485	0.00291	0.06208	0.04016	0.00097	0.00000	0.03400	0.03400	0.00000	0.00826	0.00826	—	74.5789	74.5789	0.00194	0.00951	0.00204	77.4624
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31022	0.26047	1.72176	3.57532	0.00944	0.05571	—	0.05571	0.05125	—	0.05125	—	1,014.31	1,014.31	0.04114	0.00823	—	1,017.79
Onsite truck	0.00140	0.00078	0.01752	0.01105	0.00028	0.00000	0.00974	0.00974	0.00000	0.00236	0.00236	—	21.4390	21.4390	0.00056	0.00268	0.00978	22.2610
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05662	0.04754	0.31422	0.65250	0.00172	0.01017	—	0.01017	0.00935	—	0.00935	—	167.930	167.930	0.00681	0.00136	—	168.507
Onsite truck	0.00025	0.00014	0.00320	0.00202	0.00005	0.00000	0.00178	0.00178	0.00000	0.00043	0.00043	—	3.54947	3.54947	0.00009	0.00044	0.00162	3.68556

3.6.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13625	0.10185	0.08863	2.26062	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	902.954	902.954	0.00529	0.00397	0.69988	904.969
Vendor	0.03711	0.02029	0.47777	0.21279	0.01450	0.00000	0.50803	0.50803	0.00000	0.12338	0.12338	—	1,066.06	1,066.06	0.01739	0.13220	1.17737	1,107.07
Hauling	0.21972	0.03371	3.09354	1.74611	0.02543	0.05087	4.46392	4.51479	0.05087	0.63130	0.68217	—	2,936.14	2,936.14	0.18509	0.46120	1.74584	3,079.95

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13625	0.10053	0.12699	1.83469	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	841.467	841.467	0.00661	0.00397	0.01811	842.833
Vendor	0.03769	0.02029	0.49864	0.22439	0.01450	0.00000	0.50803	0.50803	0.00000	0.12338	0.12338	—	1,066.34	1,066.34	0.01739	0.13278	0.03047	1,106.37
Hauling	0.21849	0.03279	3.25626	1.75009	0.02574	0.05087	4.46392	4.51479	0.05087	0.63130	0.68217	—	2,936.50	2,936.50	0.18509	0.46120	0.04510	3,078.61
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03843	0.02816	0.02664	0.52588	0.00000	0.00000	0.30339	0.30339	0.00000	0.07109	0.07109	—	243.130	243.130	0.00152	0.00114	0.08679	243.595
Vendor	0.01084	0.00567	0.14244	0.06305	0.00417	0.00000	0.14549	0.14549	0.00000	0.03533	0.03533	—	306.709	306.709	0.00500	0.03803	0.14609	318.313
Hauling	0.06303	0.00961	0.92042	0.50275	0.00732	0.01463	1.26266	1.27729	0.01463	0.17929	0.19392	—	844.683	844.683	0.05325	0.13267	0.21659	885.768
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00701	0.00514	0.00486	0.09597	0.00000	0.00000	0.05537	0.05537	0.00000	0.01297	0.01297	—	40.2530	40.2530	0.00025	0.00019	0.01437	40.3299
Vendor	0.00198	0.00103	0.02600	0.01151	0.00076	0.00000	0.02655	0.02655	0.00000	0.00645	0.00645	—	50.7791	50.7791	0.00083	0.00630	0.02419	52.7003
Hauling	0.01150	0.00175	0.16798	0.09175	0.00134	0.00267	0.23044	0.23311	0.00267	0.03272	0.03539	—	139.847	139.847	0.00882	0.02197	0.03586	146.649

3.6.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49773	0.45996	3.05199	18.2207	0.03281	0.07243	—	0.07243	0.07083	—	0.07083	—	3,525.99	3,525.99	0.14303	0.02861	—	3,538.09

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00466	0.00291	0.05898	0.03628	0.00097	0.00000	0.03400	0.03400	0.00000	0.00826	0.00826	—	74.4877	74.4877	0.00194	0.00931	0.07879	77.3901
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49773	0.45996	3.05199	18.2207	0.03281	0.07243	—	0.07243	0.07083	—	0.07083	—	3,525.99	3,525.99	0.14303	0.02861	—	3,538.09
Onsite truck	0.00485	0.00291	0.06208	0.04016	0.00097	0.00000	0.03400	0.03400	0.00000	0.00826	0.00826	—	74.5789	74.5789	0.00194	0.00951	0.00204	77.4624
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14318	0.13232	0.87797	5.24156	0.00944	0.02084	—	0.02084	0.02038	—	0.02038	—	1,014.33	1,014.33	0.04115	0.00823	—	1,017.81
Onsite truck	0.00140	0.00078	0.01752	0.01105	0.00028	0.00000	0.00974	0.00974	0.00000	0.00236	0.00236	—	21.4390	21.4390	0.00056	0.00268	0.00978	22.2610
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02613	0.02415	0.16023	0.95658	0.00172	0.00380	—	0.00380	0.00372	—	0.00372	—	167.933	167.933	0.00681	0.00136	—	168.510
Onsite truck	0.00025	0.00014	0.00320	0.00202	0.00005	0.00000	0.00178	0.00178	0.00000	0.00043	0.00043	—	3.54947	3.54947	0.00009	0.00044	0.00162	3.68556

3.6.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13625	0.10185	0.08863	2.26062	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	902.954	902.954	0.00529	0.00397	0.69988	904.969
Vendor	0.03711	0.02029	0.47777	0.21279	0.01450	0.00000	0.50803	0.50803	0.00000	0.12338	0.12338	—	1,066.06	1,066.06	0.01739	0.13220	1.17737	1,107.07
Hauling	0.21972	0.03371	3.09354	1.74611	0.02543	0.05087	4.46392	4.51479	0.05087	0.63130	0.68217	—	2,936.14	2,936.14	0.18509	0.46120	1.74584	3,079.95
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13625	0.10053	0.12699	1.83469	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	841.467	841.467	0.00661	0.00397	0.01811	842.833
Vendor	0.03769	0.02029	0.49864	0.22439	0.01450	0.00000	0.50803	0.50803	0.00000	0.12338	0.12338	—	1,066.34	1,066.34	0.01739	0.13278	0.03047	1,106.37
Hauling	0.21849	0.03279	3.25626	1.75009	0.02574	0.05087	4.46392	4.51479	0.05087	0.63130	0.68217	—	2,936.50	2,936.50	0.18509	0.46120	0.04510	3,078.61
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03843	0.02816	0.02664	0.52588	0.00000	0.00000	0.30339	0.30339	0.00000	0.07109	0.07109	—	243.130	243.130	0.00152	0.00114	0.08679	243.595
Vendor	0.01084	0.00567	0.14244	0.06305	0.00417	0.00000	0.14549	0.14549	0.00000	0.03533	0.03533	—	306.709	306.709	0.00500	0.03803	0.14609	318.313
Hauling	0.06303	0.00961	0.92042	0.50275	0.00732	0.01463	1.26266	1.27729	0.01463	0.17929	0.19392	—	844.683	844.683	0.05325	0.13267	0.21659	885.768
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00701	0.00514	0.00486	0.09597	0.00000	0.00000	0.05537	0.05537	0.00000	0.01297	0.01297	—	40.2530	40.2530	0.00025	0.00019	0.01437	40.3299
Vendor	0.00198	0.00103	0.02600	0.01151	0.00076	0.00000	0.02655	0.02655	0.00000	0.00645	0.00645	—	50.7791	50.7791	0.00083	0.00630	0.02419	52.7003
Hauling	0.01150	0.00175	0.16798	0.09175	0.00134	0.00267	0.23044	0.23311	0.00267	0.03272	0.03539	—	139.847	139.847	0.00882	0.02197	0.03586	146.649

3.7. Phase dust control (2037)

3.7.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00459	0.00141	0.05146	0.03624	0.00022	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	29.1663	29.1663	0.00287	0.00467	0.02011	30.6509
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00445	0.00128	0.05437	0.03682	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	29.2190	29.2190	0.00282	0.00467	0.00052	30.6828
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00271	0.00082	0.03171	0.02176	0.00016	0.00026	0.43838	0.43864	0.00026	0.04457	0.04484	—	17.4217	17.4217	0.00171	0.00279	0.00519	18.3009
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00049	0.00015	0.00579	0.00397	0.00003	0.00005	0.08000	0.08005	0.00005	0.00813	0.00818	—	2.88435	2.88435	0.00028	0.00046	0.00086	3.02993

3.7.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00459	0.00141	0.05146	0.03624	0.00022	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	29.1663	29.1663	0.00287	0.00467	0.02011	30.6509
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00445	0.00128	0.05437	0.03682	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	29.2190	29.2190	0.00282	0.00467	0.00052	30.6828
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00271	0.00082	0.03171	0.02176	0.00016	0.00026	0.43838	0.43864	0.00026	0.04457	0.04484	—	17.4217	17.4217	0.00171	0.00279	0.00519	18.3009
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00049	0.00015	0.00579	0.00397	0.00003	0.00005	0.08000	0.08005	0.00005	0.00813	0.00818	—	2.88435	2.88435	0.00028	0.00046	0.00086	3.02993

3.7.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8. Phase dust control (2038)

3.8.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00437	0.00141	0.05057	0.03541	0.00022	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.6450	28.6450	0.00260	0.00467	0.01743	30.1202

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00419	0.00128	0.05348	0.03598	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.6989	28.6989	0.00256	0.00467	0.00045	30.1561
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00305	0.00098	0.03732	0.02545	0.00016	0.00031	0.52446	0.52478	0.00031	0.05334	0.05366	—	20.4769	20.4769	0.00186	0.00334	0.00538	21.5236
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00056	0.00018	0.00681	0.00464	0.00003	0.00006	0.09571	0.09577	0.00006	0.00973	0.00979	—	3.39018	3.39018	0.00031	0.00055	0.00089	3.56347

3.8.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00437	0.00141	0.05057	0.03541	0.00022	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.6450	28.6450	0.00260	0.00467	0.01743	30.1202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00419	0.00128	0.05348	0.03598	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.6989	28.6989	0.00256	0.00467	0.00045	30.1561
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00305	0.00098	0.03732	0.02545	0.00016	0.00031	0.52446	0.52478	0.00031	0.05334	0.05366	—	20.4769	20.4769	0.00186	0.00334	0.00538	21.5236
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00056	0.00018	0.00681	0.00464	0.00003	0.00006	0.09571	0.09577	0.00006	0.00973	0.00979	—	3.39018	3.39018	0.00031	0.00055	0.00089	3.56347

3.8.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9. Phase dust control (2039)

3.9.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00410	0.00141	0.04960	0.03457	0.00022	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.1749	28.1749	0.00256	0.00445	0.01513	29.5811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00392	0.00128	0.05238	0.03514	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.2301	28.2301	0.00256	0.00445	0.00039	29.6216
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00287	0.00098	0.03650	0.02485	0.00016	0.00031	0.52446	0.52478	0.00031	0.05334	0.05366	—	20.1414	20.1414	0.00183	0.00318	0.00466	21.1397
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00052	0.00018	0.00666	0.00453	0.00003	0.00006	0.09571	0.09577	0.00006	0.00973	0.00979	—	3.33464	3.33464	0.00030	0.00053	0.00077	3.49992

3.9.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00410	0.00141	0.04960	0.03457	0.00022	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.1749	28.1749	0.00256	0.00445	0.01513	29.5811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00392	0.00128	0.05238	0.03514	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.2301	28.2301	0.00256	0.00445	0.00039	29.6216
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00287	0.00098	0.03650	0.02485	0.00016	0.00031	0.52446	0.52478	0.00031	0.05334	0.05366	—	20.1414	20.1414	0.00183	0.00318	0.00466	21.1397
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00052	0.00018	0.00666	0.00453	0.00003	0.00006	0.09571	0.09577	0.00006	0.00973	0.00979	—	3.33464	3.33464	0.00030	0.00053	0.00077	3.49992

3.9.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.10. Phase dust control (2040)

3.10.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00388	0.00128	0.05150	0.03452	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	27.8113	27.8113	0.00229	0.00445	0.00034	29.1961
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00036	0.00012	0.00452	0.00308	0.00002	0.00004	0.06610	0.06614	0.00004	0.00672	0.00676	—	2.50060	2.50060	0.00021	0.00040	0.00051	2.62573
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00007	0.00002	0.00083	0.00056	< 0.000005	0.00001	0.01206	0.01207	0.00001	0.00123	0.00123	—	0.41400	0.41400	0.00003	0.00007	0.00008	0.43472

3.10.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.10.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00388	0.00128	0.05150	0.03452	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	27.8113	27.8113	0.00229	0.00445	0.00034	29.1961
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00036	0.00012	0.00452	0.00308	0.00002	0.00004	0.06610	0.06614	0.00004	0.00672	0.00676	—	2.50060	2.50060	0.00021	0.00040	0.00051	2.62573
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00007	0.00002	0.00083	0.00056	< 0.000005	0.00001	0.01206	0.01207	0.00001	0.00123	0.00123	—	0.41400	0.41400	0.00003	0.00007	0.00008	0.43472

3.10.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.11. Phase 5 Parking Lot Improvements (2039)

3.11.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37418	0.31320	2.10557	3.80836	0.01139	0.04741	—	0.04741	0.04362	—	0.04362	—	1,188.81	1,188.81	0.04822	0.00964	—	1,192.89
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00190	0.00119	0.02413	0.01484	0.00040	0.00000	0.01391	0.01391	0.00000	0.00338	0.00338	—	30.4723	30.4723	0.00079	0.00381	0.03223	31.6596
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37418	0.31320	2.10557	3.80836	0.01139	0.04741	—	0.04741	0.04362	—	0.04362	—	1,188.81	1,188.81	0.04822	0.00964	—	1,192.89
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00198	0.00119	0.02540	0.01643	0.00040	0.00000	0.01391	0.01391	0.00000	0.00338	0.00338	—	30.5096	30.5096	0.00079	0.00389	0.00083	31.6891
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09885	0.08274	0.55627	1.00612	0.00301	0.01253	—	0.01253	0.01152	—	0.01152	—	314.070	314.070	0.01274	0.00255	—	315.148
Demolition	—	—	—	—	—	—	0.05577	0.05577	—	0.00845	0.00845	—	—	—	—	—	—	—
Paving	0.01502	0.01502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00052	0.00029	0.00658	0.00415	0.00010	0.00000	0.00366	0.00366	0.00000	0.00089	0.00089	—	8.05453	8.05453	0.00021	0.00101	0.00367	8.36337
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01804	0.01510	0.10152	0.18362	0.00055	0.00229	—	0.00229	0.00210	—	0.00210	—	51.9979	51.9979	0.00211	0.00042	—	52.1763
Demolition	—	—	—	—	—	—	0.01018	0.01018	—	0.00154	0.00154	—	—	—	—	—	—	—
Paving	0.00274	0.00274	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00010	0.00005	0.00120	0.00076	0.00002	0.00000	0.00067	0.00067	0.00000	0.00016	0.00016	—	1.33352	1.33352	0.00003	0.00017	0.00061	1.38465

3.11.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.06790	0.05908	1.50708	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	601.970	601.970	0.00353	0.00265	0.46659	603.313
Vendor	0.01510	0.00826	0.19438	0.08657	0.00590	0.00000	0.20669	0.20669	0.00000	0.05020	0.05020	—	433.722	433.722	0.00708	0.05378	0.47901	450.405
Hauling	0.04500	0.01178	0.58292	0.36999	0.00362	0.00725	0.87795	0.88520	0.00725	0.11408	0.12132	—	435.387	435.387	0.03232	0.06856	0.24878	456.875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.06702	0.08466	1.22312	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	560.978	560.978	0.00441	0.00265	0.01207	561.888
Vendor	0.01533	0.00826	0.20287	0.09129	0.00590	0.00000	0.20669	0.20669	0.00000	0.05020	0.05020	—	433.832	433.832	0.00708	0.05402	0.01240	450.120
Hauling	0.04379	0.01087	0.61464	0.37392	0.00393	0.00725	0.87795	0.88520	0.00725	0.11408	0.12132	—	435.763	435.763	0.03232	0.06856	0.00643	457.008
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02353	0.01724	0.01631	0.32197	0.00000	0.00000	0.18575	0.18575	0.00000	0.04352	0.04352	—	148.855	148.855	0.00093	0.00070	0.05314	149.140
Vendor	0.00405	0.00212	0.05322	0.02356	0.00156	0.00000	0.05436	0.05436	0.00000	0.01320	0.01320	—	114.596	114.596	0.00187	0.01421	0.05458	118.932
Hauling	0.01173	0.00303	0.15895	0.09815	0.00096	0.00192	0.22780	0.22972	0.00192	0.02970	0.03162	—	115.065	115.065	0.00854	0.01811	0.02834	120.705
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00429	0.00315	0.00298	0.05876	0.00000	0.00000	0.03390	0.03390	0.00000	0.00794	0.00794	—	24.6447	24.6447	0.00015	0.00012	0.00880	24.6918
Vendor	0.00074	0.00039	0.00971	0.00430	0.00028	0.00000	0.00992	0.00992	0.00000	0.00241	0.00241	—	18.9727	18.9727	0.00031	0.00235	0.00904	19.6905
Hauling	0.00214	0.00055	0.02901	0.01791	0.00017	0.00035	0.04157	0.04192	0.00035	0.00542	0.00577	—	19.0503	19.0503	0.00141	0.00300	0.00469	19.9840

3.11.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19003	0.17481	1.58254	6.58859	0.01140	0.02605	—	0.02605	0.02578	—	0.02578	—	1,190.02	1,190.02	0.04827	0.00965	—	1,194.10
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00190	0.00119	0.02413	0.01484	0.00040	0.00000	0.01391	0.01391	0.00000	0.00338	0.00338	—	30.4723	30.4723	0.00079	0.00381	0.03223	31.6596
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19003	0.17481	1.58254	6.58859	0.01140	0.02605	—	0.02605	0.02578	—	0.02578	—	1,190.02	1,190.02	0.04827	0.00965	—	1,194.10
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00198	0.00119	0.02540	0.01643	0.00040	0.00000	0.01391	0.01391	0.00000	0.00338	0.00338	—	30.5096	30.5096	0.00079	0.00389	0.00083	31.6891
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05020	0.04618	0.41809	1.74063	0.00301	0.00688	—	0.00688	0.00681	—	0.00681	—	314.389	314.389	0.01275	0.00255	—	315.468
Demolition	—	—	—	—	—	—	0.05577	0.05577	—	0.00845	0.00845	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Paving	0.01502	0.01502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00052	0.00029	0.00658	0.00415	0.00010	0.00000	0.00366	0.00366	0.00000	0.00089	0.00089	—	8.05453	8.05453	0.00021	0.00101	0.00367	8.36337
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00916	0.00843	0.07630	0.31766	0.00055	0.00126	—	0.00126	0.00124	—	0.00124	—	52.0507	52.0507	0.00211	0.00042	—	52.2293
Demolition	—	—	—	—	—	—	0.01018	0.01018	—	0.00154	0.00154	—	—	—	—	—	—	—
Paving	0.00274	0.00274	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00010	0.00005	0.00120	0.00076	0.00002	0.00000	0.00067	0.00067	0.00000	0.00016	0.00016	—	1.33352	1.33352	0.00003	0.00017	0.00061	1.38465

3.11.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.06790	0.05908	1.50708	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	601.970	601.970	0.00353	0.00265	0.46659	603.313
Vendor	0.01510	0.00826	0.19438	0.08657	0.00590	0.00000	0.20669	0.20669	0.00000	0.05020	0.05020	—	433.722	433.722	0.00708	0.05378	0.47901	450.405
Hauling	0.04500	0.01178	0.58292	0.36999	0.00362	0.00725	0.87795	0.88520	0.00725	0.11408	0.12132	—	435.387	435.387	0.03232	0.06856	0.24878	456.875
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.06702	0.08466	1.22312	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	560.978	560.978	0.00441	0.00265	0.01207	561.888

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.01533	0.00826	0.20287	0.09129	0.00590	0.00000	0.20669	0.20669	0.00000	0.05020	0.05020	—	433.832	433.832	0.00708	0.05402	0.01240	450.120
Hauling	0.04379	0.01087	0.61464	0.37392	0.00393	0.00725	0.87795	0.88520	0.00725	0.11408	0.12132	—	435.763	435.763	0.03232	0.06856	0.00643	457.008
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02353	0.01724	0.01631	0.32197	0.00000	0.00000	0.18575	0.18575	0.00000	0.04352	0.04352	—	148.855	148.855	0.00093	0.00070	0.05314	149.140
Vendor	0.00405	0.00212	0.05322	0.02356	0.00156	0.00000	0.05436	0.05436	0.00000	0.01320	0.01320	—	114.596	114.596	0.00187	0.01421	0.05458	118.932
Hauling	0.01173	0.00303	0.15895	0.09815	0.00096	0.00192	0.22780	0.22972	0.00192	0.02970	0.03162	—	115.065	115.065	0.00854	0.01811	0.02834	120.705
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00429	0.00315	0.00298	0.05876	0.00000	0.00000	0.03390	0.03390	0.00000	0.00794	0.00794	—	24.6447	24.6447	0.00015	0.00012	0.00880	24.6918
Vendor	0.00074	0.00039	0.00971	0.00430	0.00028	0.00000	0.00992	0.00992	0.00000	0.00241	0.00241	—	18.9727	18.9727	0.00031	0.00235	0.00904	19.6905
Hauling	0.00214	0.00055	0.02901	0.01791	0.00017	0.00035	0.04157	0.04192	0.00035	0.00542	0.00577	—	19.0503	19.0503	0.00141	0.00300	0.00469	19.9840

3.12. Phase 5 Parking Lot Improvements (2040)

3.12.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.37085	0.31040	2.06491	3.80519	0.01139	0.04601	—	0.04601	0.04233	—	0.04233	—	1,188.82	1,188.82	0.04822	0.00964	—	1,192.90
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00190	0.00103	0.02421	0.01579	0.00040	0.00000	0.01391	0.01391	0.00000	0.00338	0.00338	—	29.2559	29.2559	0.00079	0.00341	0.00073	30.2935
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03338	0.02794	0.18588	0.34254	0.00103	0.00414	—	0.00414	0.00381	—	0.00381	—	107.017	107.017	0.00434	0.00087	—	107.384
Demolition	—	—	—	—	—	—	0.01900	0.01900	—	0.00288	0.00288	—	—	—	—	—	—	—
Paving	0.00512	0.00512	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00017	0.00009	0.00214	0.00139	0.00004	0.00000	0.00125	0.00125	0.00000	0.00030	0.00030	—	2.63160	2.63160	0.00007	0.00031	0.00110	2.72604
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00609	0.00510	0.03392	0.06251	0.00019	0.00076	—	0.00076	0.00070	—	0.00070	—	17.7179	17.7179	0.00072	0.00014	—	17.7787
Demolition	—	—	—	—	—	—	0.00347	0.00347	—	0.00053	0.00053	—	—	—	—	—	—	—
Paving	0.00093	0.00093	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00003	0.00002	0.00039	0.00025	0.00001	0.00000	0.00023	0.00023	0.00000	0.00006	0.00006	—	0.43569	0.43569	0.00001	0.00005	0.00018	0.45133

3.12.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08730	0.06349	0.08466	1.19402	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	557.441	557.441	0.00353	0.00265	0.01012	558.328
Vendor	0.01510	0.00778	0.18990	0.08469	0.00590	0.00000	0.20669	0.20669	0.00000	0.05020	0.05020	—	415.325	415.325	0.00708	0.04789	0.01088	429.783
Hauling	0.04349	0.01087	0.60225	0.36335	0.00393	0.00725	0.87795	0.88520	0.00725	0.11408	0.12132	—	428.980	428.980	0.02839	0.06856	0.00560	450.127
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00778	0.00564	0.00548	0.10717	0.00000	0.00000	0.06329	0.06329	0.00000	0.01483	0.01483	—	50.3989	50.3989	0.00032	0.00024	0.01515	50.4929
Vendor	0.00136	0.00070	0.01697	0.00796	0.00053	0.00000	0.01852	0.01852	0.00000	0.00450	0.00450	—	37.3814	37.3814	0.00064	0.00431	0.01632	38.6983
Hauling	0.00400	0.00103	0.05305	0.03249	0.00033	0.00065	0.07762	0.07827	0.00065	0.01012	0.01077	—	38.5963	38.5963	0.00256	0.00617	0.00840	40.5078
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00142	0.00103	0.00100	0.01956	0.00000	0.00000	0.01155	0.01155	0.00000	0.00271	0.00271	—	8.34411	8.34411	0.00005	0.00004	0.00251	8.35968
Vendor	0.00025	0.00013	0.00310	0.00145	0.00010	0.00000	0.00338	0.00338	0.00000	0.00082	0.00082	—	6.18892	6.18892	0.00011	0.00071	0.00270	6.40694
Hauling	0.00073	0.00019	0.00968	0.00593	0.00006	0.00012	0.01417	0.01428	0.00012	0.00185	0.00197	—	6.39006	6.39006	0.00042	0.00102	0.00139	6.70653

3.12.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19026	0.17500	1.58172	6.58998	0.01140	0.02594	—	0.02594	0.02568	—	0.02568	—	1,190.03	1,190.03	0.04827	0.00965	—	1,194.11
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00190	0.00103	0.02421	0.01579	0.00040	0.00000	0.01391	0.01391	0.00000	0.00338	0.00338	—	29.2559	29.2559	0.00079	0.00341	0.00073	30.2935
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01713	0.01575	0.14239	0.59323	0.00103	0.00233	—	0.00233	0.00231	—	0.00231	—	107.126	107.126	0.00435	0.00087	—	107.494
Demolition	—	—	—	—	—	—	0.01900	0.01900	—	0.00288	0.00288	—	—	—	—	—	—	—
Paving	0.00512	0.00512	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00017	0.00009	0.00214	0.00139	0.00004	0.00000	0.00125	0.00125	0.00000	0.00030	0.00030	—	2.63160	2.63160	0.00007	0.00031	0.00110	2.72604
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00313	0.00288	0.02599	0.10826	0.00019	0.00043	—	0.00043	0.00042	—	0.00042	—	17.7359	17.7359	0.00072	0.00014	—	17.7968

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Demolition	—	—	—	—	—	—	0.00347	0.00347	—	0.00053	0.00053	—	—	—	—	—	—	—
Paving	0.00093	0.00093	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00003	0.00002	0.00039	0.00025	0.00001	0.00000	0.00023	0.00023	0.00000	0.00006	0.00006	—	0.43569	0.43569	0.00001	0.00005	0.00018	0.45133

3.12.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08730	0.06349	0.08466	1.19402	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	557.441	557.441	0.00353	0.00265	0.01012	558.328
Vendor	0.01510	0.00778	0.18990	0.08469	0.00590	0.00000	0.20669	0.20669	0.00000	0.05020	0.05020	—	415.325	415.325	0.00708	0.04789	0.01088	429.783
Hauling	0.04349	0.01087	0.60225	0.36335	0.00393	0.00725	0.87795	0.88520	0.00725	0.11408	0.12132	—	428.980	428.980	0.02839	0.06856	0.00560	450.127
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00778	0.00564	0.00548	0.10717	0.00000	0.00000	0.06329	0.06329	0.00000	0.01483	0.01483	—	50.3989	50.3989	0.00032	0.00024	0.01515	50.4929
Vendor	0.00136	0.00070	0.01697	0.00796	0.00053	0.00000	0.01852	0.01852	0.00000	0.00450	0.00450	—	37.3814	37.3814	0.00064	0.00431	0.01632	38.6983
Hauling	0.00400	0.00103	0.05305	0.03249	0.00033	0.00065	0.07762	0.07827	0.00065	0.01012	0.01077	—	38.5963	38.5963	0.00256	0.00617	0.00840	40.5078
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00142	0.00103	0.00100	0.01956	0.00000	0.00000	0.01155	0.01155	0.00000	0.00271	0.00271	—	8.34411	8.34411	0.00005	0.00004	0.00251	8.35968

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00025	0.00013	0.00310	0.00145	0.00010	0.00000	0.00338	0.00338	0.00000	0.00082	0.00082	—	6.18892	6.18892	0.00011	0.00071	0.00270	6.40694
Hauling	0.00073	0.00019	0.00968	0.00593	0.00006	0.00012	0.01417	0.01428	0.00012	0.00185	0.00197	—	6.39006	6.39006	0.00042	0.00102	0.00139	6.70653

3.13. Phase 6 MEP, Archt& finishrchitectural Coating (2039)

3.13.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77450	0.64480	7.16860	11.2135	0.01992	0.06341	—	0.06341	0.05834	—	0.05834	—	1,940.36	1,940.36	0.07871	0.01574	—	1,947.02
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00635	0.00397	0.08042	0.04947	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	101.574	101.574	0.00265	0.01270	0.10744	105.532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77450	0.64480	7.16860	11.2135	0.01992	0.06341	—	0.06341	0.05834	—	0.05834	—	1,940.36	1,940.36	0.07871	0.01574	—	1,947.02
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00661	0.00397	0.08466	0.05476	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	101.699	101.699	0.00265	0.01296	0.00278	105.630
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34254	0.28517	3.17046	4.95940	0.00881	0.02804	—	0.02804	0.02580	—	0.02580	—	858.163	858.163	0.03481	0.00696	—	861.108
Architectural Coatings	21.0516	21.0516	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00293	0.00164	0.03674	0.02317	0.00059	0.00000	0.02041	0.02041	0.00000	0.00496	0.00496	—	44.9463	44.9463	0.00117	0.00562	0.02050	46.6697
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06251	0.05204	0.57861	0.90509	0.00161	0.00512	—	0.00512	0.00471	—	0.00471	—	142.079	142.079	0.00576	0.00115	—	142.566
Architectural Coatings	3.84191	3.84191	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00053	0.00030	0.00670	0.00423	0.00011	0.00000	0.00373	0.00373	0.00000	0.00090	0.00090	—	7.44137	7.44137	0.00019	0.00093	0.00339	7.72669

3.13.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15895	0.11883	0.10340	2.63739	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	1,053.45	1,053.45	0.00617	0.00463	0.81653	1,055.80

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.05079	0.02778	0.65398	0.29127	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,459.25	1,459.25	0.02381	0.18096	1.61161	1,515.38
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15895	0.11729	0.14815	2.14047	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	981.711	981.711	0.00772	0.00463	0.02113	983.305
Vendor	0.05159	0.02778	0.68255	0.30715	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,459.62	1,459.62	0.02381	0.18175	0.04171	1,514.42
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06894	0.05051	0.04778	0.94325	0.00000	0.00000	0.54417	0.54417	0.00000	0.12751	0.12751	—	436.090	436.090	0.00273	0.00205	0.15567	436.924
Vendor	0.02282	0.01193	0.29977	0.13268	0.00878	0.00000	0.30619	0.30619	0.00000	0.07435	0.07435	—	645.452	645.452	0.01053	0.08003	0.30744	669.872
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01258	0.00922	0.00872	0.17214	0.00000	0.00000	0.09931	0.09931	0.00000	0.02327	0.02327	—	72.1997	72.1997	0.00045	0.00034	0.02577	72.3378
Vendor	0.00416	0.00218	0.05471	0.02421	0.00160	0.00000	0.05588	0.05588	0.00000	0.01357	0.01357	—	106.862	106.862	0.00174	0.01325	0.05090	110.905
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.13.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.64779	0.57251	5.75340	17.6719	0.02544	0.05361	—	0.05361	0.05229	—	0.05229	—	2,538.36	2,538.36	0.10297	0.02059	—	2,547.07
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00635	0.00397	0.08042	0.04947	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	101.574	101.574	0.00265	0.01270	0.10744	105.532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64779	0.57251	5.75340	17.6719	0.02544	0.05361	—	0.05361	0.05229	—	0.05229	—	2,538.36	2,538.36	0.10297	0.02059	—	2,547.07
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00661	0.00397	0.08466	0.05476	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	101.699	101.699	0.00265	0.01296	0.00278	105.630
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28650	0.25320	2.54455	7.81573	0.01125	0.02371	—	0.02371	0.02312	—	0.02312	—	1,122.64	1,122.64	0.04554	0.00911	—	1,126.49
Architectural Coatings	21.0516	21.0516	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00293	0.00164	0.03674	0.02317	0.00059	0.00000	0.02041	0.02041	0.00000	0.00496	0.00496	—	44.9463	44.9463	0.00117	0.00562	0.02050	46.6697
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.05229	0.04621	0.46438	1.42637	0.00205	0.00433	—	0.00433	0.00422	—	0.00422	—	185.866	185.866	0.00754	0.00151	—	186.504
Architectural Coatings	3.84191	3.84191	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00053	0.00030	0.00670	0.00423	0.00011	0.00000	0.00373	0.00373	0.00000	0.00090	0.00090	—	7.44137	7.44137	0.00019	0.00093	0.00339	7.72669

3.13.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15895	0.11883	0.10340	2.63739	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	1,053.45	1,053.45	0.00617	0.00463	0.81653	1,055.80
Vendor	0.05079	0.02778	0.65398	0.29127	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,459.25	1,459.25	0.02381	0.18096	1.61161	1,515.38
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15895	0.11729	0.14815	2.14047	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	981.711	981.711	0.00772	0.00463	0.02113	983.305
Vendor	0.05159	0.02778	0.68255	0.30715	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,459.62	1,459.62	0.02381	0.18175	0.04171	1,514.42
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06894	0.05051	0.04778	0.94325	0.00000	0.00000	0.54417	0.54417	0.00000	0.12751	0.12751	—	436.090	436.090	0.00273	0.00205	0.15567	436.924

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.02282	0.01193	0.29977	0.13268	0.00878	0.00000	0.30619	0.30619	0.00000	0.07435	0.07435	—	645.452	645.452	0.01053	0.08003	0.30744	669.872
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01258	0.00922	0.00872	0.17214	0.00000	0.00000	0.09931	0.09931	0.00000	0.02327	0.02327	—	72.1997	72.1997	0.00045	0.00034	0.02577	72.3378
Vendor	0.00416	0.00218	0.05471	0.02421	0.00160	0.00000	0.05588	0.05588	0.00000	0.01357	0.01357	—	106.862	106.862	0.00174	0.01325	0.05090	110.905
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.14. Phase 6 MEP, Archt& finishrchitectural Coating (2040)

3.14.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77347	0.64391	7.14279	11.2125	0.01992	0.06189	—	0.06189	0.05694	—	0.05694	—	1,940.40	1,940.40	0.07871	0.01574	—	1,947.06
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00635	0.00344	0.08069	0.05265	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	97.5196	97.5196	0.00265	0.01138	0.00244	100.978

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06963	0.05796	0.64299	1.00934	0.00179	0.00557	—	0.00557	0.00513	—	0.00513	—	174.674	174.674	0.00709	0.00142	—	175.274
Architectural Coatings	4.28483	4.28483	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00057	0.00031	0.00712	0.00464	0.00012	0.00000	0.00415	0.00415	0.00000	0.00101	0.00101	—	8.77201	8.77201	0.00024	0.00102	0.00366	9.08679
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01271	0.01058	0.11735	0.18421	0.00033	0.00102	—	0.00102	0.00094	—	0.00094	—	28.9193	28.9193	0.00117	0.00023	—	29.0186
Architectural Coatings	0.78198	0.78198	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00010	0.00006	0.00130	0.00085	0.00002	0.00000	0.00076	0.00076	0.00000	0.00018	0.00018	—	1.45231	1.45231	0.00004	0.00017	0.00061	1.50442

3.14.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.15278	0.11111	0.14815	2.08954	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	975.523	975.523	0.00617	0.00463	0.01771	977.074
Vendor	0.05079	0.02619	0.63890	0.28493	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,397.36	1,397.36	0.02381	0.16111	0.03660	1,446.00
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01361	0.00986	0.00959	0.18754	0.00000	0.00000	0.11076	0.11076	0.00000	0.02595	0.02595	—	88.1980	88.1980	0.00056	0.00042	0.02652	88.3626
Vendor	0.00457	0.00236	0.05708	0.02679	0.00179	0.00000	0.06232	0.06232	0.00000	0.01513	0.01513	—	125.769	125.769	0.00214	0.01450	0.05491	130.200
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00248	0.00180	0.00175	0.03423	0.00000	0.00000	0.02021	0.02021	0.00000	0.00474	0.00474	—	14.6022	14.6022	0.00009	0.00007	0.00439	14.6294
Vendor	0.00083	0.00043	0.01042	0.00489	0.00033	0.00000	0.01137	0.01137	0.00000	0.00276	0.00276	—	20.8225	20.8225	0.00035	0.00240	0.00909	21.5561
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.14.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64896	0.57348	5.74932	17.6787	0.02545	0.05306	—	0.05306	0.05178	—	0.05178	—	2,538.40	2,538.40	0.10297	0.02059	—	2,547.12

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00635	0.00344	0.08069	0.05265	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	97.5196	97.5196	0.00265	0.01138	0.00244	100.978
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05842	0.05162	0.51755	1.59143	0.00229	0.00478	—	0.00478	0.00466	—	0.00466	—	228.506	228.506	0.00927	0.00185	—	229.290
Architectural Coatings	4.28483	4.28483	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00057	0.00031	0.00712	0.00464	0.00012	0.00000	0.00415	0.00415	0.00000	0.00101	0.00101	—	8.77201	8.77201	0.00024	0.00102	0.00366	9.08679
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01066	0.00942	0.09445	0.29044	0.00042	0.00087	—	0.00087	0.00085	—	0.00085	—	37.8318	37.8318	0.00153	0.00031	—	37.9616
Architectural Coatings	0.78198	0.78198	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00010	0.00006	0.00130	0.00085	0.00002	0.00000	0.00076	0.00076	0.00000	0.00018	0.00018	—	1.45231	1.45231	0.00004	0.00017	0.00061	1.50442

3.14.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15278	0.11111	0.14815	2.08954	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	975.523	975.523	0.00617	0.00463	0.01771	977.074
Vendor	0.05079	0.02619	0.63890	0.28493	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,397.36	1,397.36	0.02381	0.16111	0.03660	1,446.00
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01361	0.00986	0.00959	0.18754	0.00000	0.00000	0.11076	0.11076	0.00000	0.02595	0.02595	—	88.1980	88.1980	0.00056	0.00042	0.02652	88.3626
Vendor	0.00457	0.00236	0.05708	0.02679	0.00179	0.00000	0.06232	0.06232	0.00000	0.01513	0.01513	—	125.769	125.769	0.00214	0.01450	0.05491	130.200
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00248	0.00180	0.00175	0.03423	0.00000	0.00000	0.02021	0.02021	0.00000	0.00474	0.00474	—	14.6022	14.6022	0.00009	0.00007	0.00439	14.6294
Vendor	0.00083	0.00043	0.01042	0.00489	0.00033	0.00000	0.01137	0.01137	0.00000	0.00276	0.00276	—	20.8225	20.8225	0.00035	0.00240	0.00909	21.5561
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Phase 1 Site Prep	Demolition	3/2/2037	4/1/2037	5.00000	23.0000	—
Phase 2 Earthwork	Grading	4/2/2037	6/1/2037	5.00000	43.0000	—
Phase 3 Foundation	Grading	6/2/2037	3/1/2038	5.00000	195.000	—
Phase 4 Super Structureng Construction	Building Construction	1/4/2038	5/27/2039	5.00000	365.000	—
Phase dust control	Building Construction	3/2/2037	2/15/2040	5.00000	773.000	—
Phase 5 Parking Lot Improvements	Paving	8/19/2039	2/15/2040	5.00000	129.000	—
Phase 6 MEP, Archt& finishrchitectural Coating	Architectural Coating	5/20/2039	2/15/2040	5.00000	194.000	—

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
Phase 1 Site Prep	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	5.20000	262.000	0.37000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 Site Prep	Excavators	Diesel	Average	2.00000	5.50000	268.000	0.38000
Phase 1 Site Prep	Other Construction Equipment	Diesel	Average	1.000000	3.00000	806.000	0.42000
Phase 1 Site Prep	Air Compressors	Diesel	Average	1.000000	1.50000	49.0000	0.48000
Phase 1 Site Prep	Cranes	Diesel	Average	1.000000	1.20000	164.000	0.29000
Phase 1 Site Prep	Rollers	Diesel	Average	2.00000	1.20000	131.000	0.38000
Phase 2 Earthwork	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	4.40000	262.000	0.37000
Phase 2 Earthwork	Excavators	Diesel	Average	1.000000	7.30000	476.000	0.38000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Average	1.000000	7.30000	240.000	0.40000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Average	1.000000	4.40000	125.000	0.40000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Average	1.000000	4.40000	354.000	0.40000
Phase 2 Earthwork	Graders	Diesel	Average	1.000000	5.70000	259.000	0.41000
Phase 2 Earthwork	Rollers	Diesel	Average	2.00000	2.90000	131.000	0.38000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	2.60000	262.000	0.37000
Phase 3 Foundation	Air Compressors	Diesel	Average	4.00000	5.80000	49.0000	0.48000
Phase 3 Foundation	Cranes	Diesel	Average	1.000000	1.80000	505.000	0.29000
Phase 3 Foundation	Off-Highway Trucks	Diesel	Average	2.00000	3.60000	505.000	0.38000
Phase 3 Foundation	Graders	Diesel	Average	1.000000	0.50000	259.000	0.41000
Phase 3 Foundation	Excavators	Diesel	Average	1.000000	2.50000	268.000	0.38000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	3.40000	110.000	0.37000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 3 Foundation	Forklifts	Diesel	Average	2.00000	3.80000	130.000	0.20000
Phase 3 Foundation	Cranes	Diesel	Average	2.00000	4.00000	260.000	0.29000
Phase 3 Foundation	Other Construction Equipment	Diesel	Average	2.00000	3.90000	176.000	0.42000
Phase 3 Foundation	Cranes	Diesel	Average	2.00000	6.50000	450.000	0.29000
Phase 3 Foundation	Rollers	Diesel	Average	2.00000	3.20000	131.000	0.38000
Phase 4 Super Structureng Construction	Cranes	Diesel	Average	2.00000	6.30000	505.000	0.29000
Phase 4 Super Structureng Construction	Forklifts	Diesel	Average	2.00000	6.90000	130.000	0.20000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Average	3.00000	5.40000	85.0000	0.31000
Phase 4 Super Structureng Construction	Air Compressors	Diesel	Average	1.000000	2.10000	49.0000	0.48000
Phase 4 Super Structureng Construction	Off-Highway Trucks	Diesel	Average	1.000000	1.60000	505.000	0.38000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Average	1.000000	4.50000	25.0000	0.31000
Phase 5 Parking Lot Improvements	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	3.80000	262.000	0.37000
Phase 5 Parking Lot Improvements	Excavators	Diesel	Average	1.000000	0.40000	268.000	0.38000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 5 Parking Lot Improvements	Other Construction Equipment	Diesel	Average	1.000000	0.30000	806.000	0.42000
Phase 5 Parking Lot Improvements	Air Compressors	Diesel	Average	1.000000	3.70000	49.0000	0.48000
Phase 5 Parking Lot Improvements	Pavers	Diesel	Average	1.000000	0.20000	225.000	0.42000
Phase 5 Parking Lot Improvements	Graders	Diesel	Average	1.000000	2.30000	259.000	0.41000
Phase 5 Parking Lot Improvements	Forklifts	Diesel	Average	1.000000	0.20000	130.000	0.20000
Phase 5 Parking Lot Improvements	Rollers	Diesel	Average	2.00000	1.50000	131.000	0.38000
Phase 6 MEP, Archt& finishrchitectural Coating	Cranes	Diesel	Average	1.000000	2.10000	505.000	0.29000
Phase 6 MEP, Archt& finishrchitectural Coating	Forklifts	Diesel	Average	1.000000	0.80000	130.000	0.20000
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Average	3.00000	6.50000	85.0000	0.31000
Phase 6 MEP, Archt& finishrchitectural Coating	Air Compressors	Diesel	Average	3.00000	6.10000	49.0000	0.48000
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Average	6.00000	7.00000	25.0000	0.31000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 Site Prep	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	5.20000	262.000	0.37000
Phase 1 Site Prep	Excavators	Diesel	Tier 4 Final	2.00000	5.50000	268.000	0.38000
Phase 1 Site Prep	Other Construction Equipment	Diesel	Tier 4 Final	1.000000	3.00000	806.000	0.42000
Phase 1 Site Prep	Air Compressors	Diesel	Average	1.000000	1.50000	49.0000	0.48000
Phase 1 Site Prep	Cranes	Diesel	Tier 4 Final	1.000000	1.20000	164.000	0.29000
Phase 1 Site Prep	Rollers	Diesel	Tier 4 Final	2.00000	1.20000	131.000	0.38000
Phase 2 Earthwork	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	4.40000	262.000	0.37000
Phase 2 Earthwork	Excavators	Diesel	Tier 4 Final	1.000000	7.30000	476.000	0.38000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	7.30000	240.000	0.40000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	4.40000	125.000	0.40000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	4.40000	354.000	0.40000
Phase 2 Earthwork	Graders	Diesel	Tier 4 Final	1.000000	5.70000	259.000	0.41000
Phase 2 Earthwork	Rollers	Diesel	Tier 4 Final	2.00000	2.90000	131.000	0.38000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	2.60000	262.000	0.37000
Phase 3 Foundation	Air Compressors	Diesel	Average	4.00000	5.80000	49.0000	0.48000
Phase 3 Foundation	Cranes	Diesel	Tier 4 Final	2.00000	1.80000	505.000	0.29000
Phase 3 Foundation	Off-Highway Trucks	Diesel	Average	2.00000	3.60000	505.000	0.38000
Phase 3 Foundation	Graders	Diesel	Tier 4 Final	1.000000	0.50000	259.000	0.41000
Phase 3 Foundation	Excavators	Diesel	Tier 4 Final	1.000000	2.50000	268.000	0.38000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	3.40000	110.000	0.37000
Phase 3 Foundation	Forklifts	Diesel	Tier 4 Final	2.00000	3.80000	130.000	0.20000
Phase 3 Foundation	Cranes	Diesel	Tier 4 Final	2.00000	4.00000	260.000	0.29000
Phase 3 Foundation	Other Construction Equipment	Diesel	Tier 4 Final	2.00000	3.90000	176.000	0.42000
Phase 3 Foundation	Cranes	Diesel	Tier 4 Final	2.00000	6.50000	450.000	0.29000
Phase 3 Foundation	Rollers	Diesel	Tier 4 Final	2.00000	3.20000	131.000	0.38000
Phase 4 Super Structureng Construction	Cranes	Diesel	Tier 4 Final	2.00000	6.30000	505.000	0.29000
Phase 4 Super Structureng Construction	Forklifts	Diesel	Tier 4 Final	2.00000	6.90000	130.000	0.20000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Average	2.00000	5.40000	85.0000	0.31000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Tier 4 Final	1.000000	5.40000	85.0000	0.31000
Phase 4 Super Structureng Construction	Air Compressors	Diesel	Average	1.000000	2.10000	49.0000	0.48000
Phase 4 Super Structureng Construction	Off-Highway Trucks	Diesel	Average	1.000000	1.60000	505.000	0.38000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Tier 4 Final	1.000000	4.50000	25.0000	0.31000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 5 Parking Lot Improvements	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	3.80000	262.000	0.37000
Phase 5 Parking Lot Improvements	Excavators	Diesel	Tier 4 Final	1.000000	0.40000	268.000	0.38000
Phase 5 Parking Lot Improvements	Other Construction Equipment	Diesel	Tier 4 Final	1.000000	0.30000	806.000	0.42000
Phase 5 Parking Lot Improvements	Air Compressors	Diesel	Average	1.000000	3.70000	49.0000	0.48000
Phase 5 Parking Lot Improvements	Pavers	Diesel	Tier 4 Final	1.000000	0.20000	225.000	0.42000
Phase 5 Parking Lot Improvements	Graders	Diesel	Tier 4 Final	1.000000	2.30000	259.000	0.41000
Phase 5 Parking Lot Improvements	Forklifts	Diesel	Tier 4 Final	1.000000	0.20000	130.000	0.20000
Phase 5 Parking Lot Improvements	Rollers	Diesel	Tier 4 Final	2.00000	1.50000	131.000	0.38000
Phase 6 MEP, Archt& finishrchitectural Coating	Cranes	Diesel	Tier 4 Final	1.000000	2.10000	505.000	0.29000
Phase 6 MEP, Archt& finishrchitectural Coating	Forklifts	Diesel	Tier 4 Final	1.000000	0.80000	130.000	0.20000
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Tier 4 Final	6.00000	6.50000	85.0000	0.31000
Phase 6 MEP, Archt& finishrchitectural Coating	Air Compressors	Diesel	Average	3.00000	6.10000	49.0000	0.48000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Tier 4 Final	6.00000	7.00000	25.0000	0.31000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 Site Prep	Worker	50.0000	25.0000	LDA,LDT1,LDT2
Phase 1 Site Prep	Vendor	24.0000	25.0000	MHDT
Phase 1 Site Prep	Hauling	40.9000	12.0000	HHDT
Phase 1 Site Prep	Onsite truck	8.00000	5.00000	MHDT
Phase 2 Earthwork	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 2 Earthwork	Vendor	16.3000	25.0000	MHDT
Phase 2 Earthwork	Hauling	385.800	25.0000	HHDT
Phase 2 Earthwork	Onsite truck	5.40000	5.00000	MHDT
Phase 3 Foundation	Worker	110.000	25.0000	LDA,LDT1,LDT2
Phase 3 Foundation	Vendor	68.6000	25.0000	MHDT
Phase 3 Foundation	Hauling	11.0000	75.0000	HHDT
Phase 3 Foundation	Onsite truck	22.9000	5.00000	MHDT
Phase 4 Super Structureng Construction	Worker	60.0000	25.0000	LDA,LDT1,LDT2

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 4 Super Structureng Construction	Vendor	26.3000	25.0000	MHDT
Phase 4 Super Structureng Construction	Hauling	13.9000	83.0000	HHDT
Phase 4 Super Structureng Construction	Onsite truck	8.80000	5.00000	MHDT
Phase dust control	Worker	0.00000	0.00000	LDA,LDT1,LDT2
Phase dust control	Vendor	0.00000	0.00000	HHDT,MHDT
Phase dust control	Hauling	0.00000	20.0000	HHDT
Phase dust control	Onsite truck	2.00000	5.00000	HHDT
Phase 5 Parking Lot Improvements	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 5 Parking Lot Improvements	Vendor	10.7000	25.0000	MHDT
Phase 5 Parking Lot Improvements	Hauling	13.7000	12.0000	HHDT
Phase 5 Parking Lot Improvements	Onsite truck	3.60000	5.00000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	70.0000	25.0000	LDA,LDT1,LDT2
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	36.0000	25.0000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	0.00000	0.00000	HHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	12.0000	5.00000	MHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 Site Prep	Worker	50.0000	25.0000	LDA,LDT1,LDT2
Phase 1 Site Prep	Vendor	24.0000	25.0000	MHDT
Phase 1 Site Prep	Hauling	40.9000	12.0000	HHDT
Phase 1 Site Prep	Onsite truck	8.00000	5.00000	MHDT
Phase 2 Earthwork	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 2 Earthwork	Vendor	16.3000	25.0000	MHDT
Phase 2 Earthwork	Hauling	385.800	25.0000	HHDT
Phase 2 Earthwork	Onsite truck	5.40000	5.00000	MHDT
Phase 3 Foundation	Worker	110.000	25.0000	LDA,LDT1,LDT2
Phase 3 Foundation	Vendor	68.6000	25.0000	MHDT
Phase 3 Foundation	Hauling	11.0000	75.0000	HHDT
Phase 3 Foundation	Onsite truck	22.9000	5.00000	MHDT
Phase 4 Super Structureng Construction	Worker	60.0000	25.0000	LDA,LDT1,LDT2
Phase 4 Super Structureng Construction	Vendor	26.3000	25.0000	MHDT
Phase 4 Super Structureng Construction	Hauling	13.9000	83.0000	HHDT
Phase 4 Super Structureng Construction	Onsite truck	8.80000	5.00000	MHDT
Phase dust control	Worker	0.00000	0.00000	LDA,LDT1,LDT2
Phase dust control	Vendor	0.00000	0.00000	HHDT,MHDT
Phase dust control	Hauling	0.00000	20.0000	HHDT

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase dust control	Onsite truck	2.00000	5.00000	HHDT
Phase 5 Parking Lot Improvements	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 5 Parking Lot Improvements	Vendor	10.7000	25.0000	MHDT
Phase 5 Parking Lot Improvements	Hauling	13.7000	12.0000	HHDT
Phase 5 Parking Lot Improvements	Onsite truck	3.60000	5.00000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	70.0000	25.0000	LDA,LDT1,LDT2
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	36.0000	25.0000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	0.00000	0.00000	HHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	12.0000	5.00000	MHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

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

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Phase 6 MEP, Archt& finishrchitectural Coating	0.00000	0.00000	91,200.0	1,267,000	0.00000

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)
Phase 1 Site Prep	0.00000	0.00000	0.00000	3,697.00	0.00000
Phase 2 Earthwork	66,700.0	66,700.0	5.50000	0.00000	0.00000
Phase 3 Foundation	18,987.0	0.00000	5.50000	0.00000	0.00000
Phase 5 Parking Lot Improvements	0.00000	0.00000	0.00000	1,882.00	2.80000

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Phase 5 Parking Lot Improvements	Unenclosed Parking Structure	2.80000	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2037	0.00000	203.983	0.03300	0.00400
2038	0.00000	203.983	0.03300	0.00400
2039	0.00000	203.983	0.03300	0.00400
2040	0.00000	203.983	0.03300	0.00400

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Project information
Construction: Construction Phases	project information
Construction: Off-Road Equipment	Project information
Construction: Dust From Material Movement	Project information
Construction: Demolition	project information
Construction: Trips and VMT	Project information
Construction: On-Road Fugitive Dust	project information
Construction: Architectural Coatings	Project information

Screen	Justification
Construction: Paving	Project information

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Building Area	sq. ft	435,600	1,175,167
Landscape Area	sq. ft	—	0.00000
Special Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Number per Day	3.00000	2.00000
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Hours Per Day	8.00000	5.20000
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Horsepower	84.0000	262.000
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Number per Day	3.00000	2.00000
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Hours Per Day	8.00000	4.40000
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Horsepower	84.0000	262.000
Phase 3 Foundation	Excavators	Hours Per Day	8.00000	2.50000
Phase 3 Foundation	Excavators	Horsepower	36.0000	268.000
Phase 4 Super Structureng Construction	Cranes	Number per Day	1.000000	2.00000

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Phase 4 Super Structureng Construction	Cranes	Hours Per Day	7.00000	6.30000
Phase 4 Super Structureng Construction	Cranes	Horsepower	367.000	505.000
Phase 4 Super Structureng Construction	Forklifts	Number per Day	3.00000	2.00000
Phase 4 Super Structureng Construction	Forklifts	Hours Per Day	8.00000	6.90000
Phase 4 Super Structureng Construction	Forklifts	Horsepower	82.0000	130.000

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 2 Earthwork	Material Imported	Cubic Yards	—	66,700.0
Phase 2 Earthwork	Material Exported	Cubic Yards	—	66,700.0
Phase 2 Earthwork	Total Acres Graded	acres	58.5875	5.50000
Phase 3 Foundation	Material Imported	Cubic Yards	—	18,987.0
Phase 3 Foundation	Material Exported	Cubic Yards	—	0.00000
Phase 3 Foundation	Total Acres Graded	acres	6.09375	5.50000

8.4.5. Demolition

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 5 Parking Lot Improvements	Material Demolished	Ton of Debris	473.000	1,882.00

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 1 Site Prep	Worker	One-Way Trips per Day	22.5000	50.0000
Phase 1 Site Prep	Worker	Miles per Trip	11.7000	25.0000
Phase 1 Site Prep	Vendor	One-Way Trips per Day	—	24.0000
Phase 1 Site Prep	Vendor	Miles per Trip	8.40000	25.0000
Phase 1 Site Prep	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 1 Site Prep	Hauling	One-Way Trips per Day	40.2174	40.9000
Phase 1 Site Prep	Hauling	Miles per Trip	20.0000	12.0000
Phase 1 Site Prep	Onsite truck	One-Way Trips per Day	—	8.00000
Phase 1 Site Prep	Onsite truck	Miles per Trip	—	5.00000
Phase 1 Site Prep	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 2 Earthwork	Worker	One-Way Trips per Day	22.5000	40.0000
Phase 2 Earthwork	Worker	Miles per Trip	11.7000	25.0000
Phase 2 Earthwork	Vendor	One-Way Trips per Day	—	16.3000
Phase 2 Earthwork	Vendor	Miles per Trip	8.40000	25.0000
Phase 2 Earthwork	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 2 Earthwork	Hauling	One-Way Trips per Day	387.791	385.800
Phase 2 Earthwork	Hauling	Miles per Trip	20.0000	25.0000
Phase 2 Earthwork	Onsite truck	One-Way Trips per Day	—	5.40000
Phase 2 Earthwork	Onsite truck	Miles per Trip	—	5.00000
Phase 2 Earthwork	Onsite truck	Vehicle Mix	HHDT	MHDT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 3 Foundation	Worker	One-Way Trips per Day	57.5000	110.000
Phase 3 Foundation	Worker	Miles per Trip	11.7000	25.0000
Phase 3 Foundation	Vendor	One-Way Trips per Day	—	68.6000
Phase 3 Foundation	Vendor	Miles per Trip	8.40000	25.0000
Phase 3 Foundation	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 3 Foundation	Hauling	One-Way Trips per Day	12.1744	11.0000
Phase 3 Foundation	Hauling	Miles per Trip	20.0000	75.0000
Phase 3 Foundation	Onsite truck	One-Way Trips per Day	—	22.9000
Phase 3 Foundation	Onsite truck	Miles per Trip	—	5.00000
Phase 3 Foundation	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 4 Super Structureng Construction	Worker	One-Way Trips per Day	493.570	60.0000
Phase 4 Super Structureng Construction	Worker	Miles per Trip	11.7000	25.0000
Phase 4 Super Structureng Construction	Vendor	One-Way Trips per Day	192.610	26.3000
Phase 4 Super Structureng Construction	Vendor	Miles per Trip	8.40000	25.0000
Phase 4 Super Structureng Construction	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 4 Super Structureng Construction	Hauling	One-Way Trips per Day	0.00000	13.9000
Phase 4 Super Structureng Construction	Hauling	Miles per Trip	20.0000	83.0000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 4 Super Structureng Construction	Onsite truck	One-Way Trips per Day	—	8.80000
Phase 4 Super Structureng Construction	Onsite truck	Miles per Trip	—	5.00000
Phase 4 Super Structureng Construction	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase dust control	Worker	One-Way Trips per Day	493.570	0.00000
Phase dust control	Worker	Miles per Trip	11.7000	0.00000
Phase dust control	Vendor	One-Way Trips per Day	192.610	0.00000
Phase dust control	Vendor	Miles per Trip	8.40000	0.00000
Phase 5 Parking Lot Improvements	Worker	One-Way Trips per Day	22.5000	40.0000
Phase 5 Parking Lot Improvements	Worker	Miles per Trip	11.7000	25.0000
Phase 5 Parking Lot Improvements	Vendor	One-Way Trips per Day	—	10.7000
Phase 5 Parking Lot Improvements	Vendor	Miles per Trip	8.40000	25.0000
Phase 5 Parking Lot Improvements	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 5 Parking Lot Improvements	Hauling	One-Way Trips per Day	3.65116	13.7000
Phase 5 Parking Lot Improvements	Hauling	Miles per Trip	20.0000	12.0000
Phase 5 Parking Lot Improvements	Onsite truck	One-Way Trips per Day	—	3.60000
Phase 5 Parking Lot Improvements	Onsite truck	Miles per Trip	—	5.00000
Phase 5 Parking Lot Improvements	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	One-Way Trips per Day	197.428	70.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	Miles per Trip	11.7000	25.0000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	One-Way Trips per Day	—	36.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	Miles per Trip	8.40000	25.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	Miles per Trip	20.0000	0.00000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	One-Way Trips per Day	—	12.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	Miles per Trip	—	5.00000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	Vehicle Mix	HHDT	MHDT

8.4.7. On-Road Fugitive Dust

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 1 Site Prep	Hauling Trip Paved	%	100.0000	99.0000
Phase 1 Site Prep	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 2 Earthwork	Hauling Trip Paved	%	100.0000	99.6000
Phase 2 Earthwork	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 3 Foundation	Hauling Trip Paved	%	100.0000	99.8000
Phase 3 Foundation	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 4 Super Structureng Construction	Hauling Trip Paved	%	100.0000	99.8000

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 4 Super Structureng Construction	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase dust control	Onsite Truck Trip Paved	%	0.00000	80.0000
Phase 5 Parking Lot Improvements	Hauling Trip Paved	%	100.0000	99.7000
Phase 5 Parking Lot Improvements	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite Truck Trip Paved	%	0.00000	100.0000

8.4.8. Architectural Coatings

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 6 MEP, Archt& finishrchitectural Coating	Non-Residential Interior Area	sq ft	19,602.0	91,200.0
Phase 6 MEP, Archt& finishrchitectural Coating	Non-Residential Exterior Area	sq ft	2,178.00	1,267,000
Phase 6 MEP, Archt& finishrchitectural Coating	Parking Area	sq ft	26,136.0	0.00000

8.4.9. Paving

Phase Name	Land Use	Model Parameter	Units	Default Value	New Value
Phase 5 Parking Lot Improvements	Unenclosed Parking Structure	Area Paved	acres	10.00000	2.80000

Larkspur Main Lot Construction ACP Unmitg and mtg Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Larkspur Main Lot Construction ACP Unmitg and mtg
Construction Start Date	3/2/2037
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.90000
Precipitation (days)	7.60000
Location	Larkspur Ferry Terminal, Larkspur, CA 94939, USA
County	Marin
City	Larkspur
Air District	Bay Area AQMD
Air Basin	San Francisco Bay Area
TAZ	905
EDFZ	2
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.45

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
Unenclosed Parking Structure	10.00000	Acre	10.00000	1,175,167	0.00000	0.00000	—	—

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.	50.0301	49.4513	41.7917	36.3767	0.27050	0.89333	71.0691	71.9625	0.85592	10.1897	11.0456	—	32,488.0	32,488.0	2.14314	4.27130	21.0823	33,835.5
Mit.	49.3228	48.9335	33.5659	47.3781	0.27051	0.52419	71.0691	71.5933	0.52419	10.1897	10.7139	—	32,489.2	32,489.2	2.14319	4.27131	21.0823	33,836.7
% Reduced	1%	1%	20%	-30%	—	41%	—	1%	39%	—	3%	—	> -0.5%	> -0.5%	—	—	—	> -0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Unmit.	49.1757	48.8508	22.4802	42.3300	0.16921	0.56410	13.9058	14.4699	0.52431	2.11138	2.63569	—	19,097.8	19,097.8	0.75143	1.05618	0.19738	19,431.5
Mit.	48.8648	48.6401	16.2948	60.2275	0.16927	0.30593	13.9058	14.2117	0.29862	2.11138	2.41000	—	19,103.8	19,103.8	0.75167	1.05623	0.19738	19,437.6
% Reduced	1%	< 0.5%	28%	-42%	—	46%	—	2%	43%	—	9%	—	> -0.5%	> -0.5%	—	—	—	> -0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.0574	21.8243	11.2396	15.9070	0.07905	0.25503	12.5110	12.7660	0.23954	1.78501	2.02455	—	8,976.02	8,976.02	0.45515	0.73163	1.96135	9,207.39
Mit.	21.7857	21.6277	8.78818	22.9659	0.07907	0.14943	12.5110	12.6604	0.14697	1.78501	1.93198	—	8,978.66	8,978.66	0.45526	0.73165	1.96135	9,210.03
% Reduced	1%	1%	22%	-44%	—	41%	—	1%	39%	—	5%	—	> -0.5%	> -0.5%	—	—	—	> -0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.02548	3.98294	2.05122	2.90303	0.01443	0.04654	2.28326	2.32980	0.04372	0.32576	0.36948	—	1,486.08	1,486.08	0.07536	0.12113	0.32472	1,524.39
Mit.	3.97589	3.94705	1.60384	4.19128	0.01443	0.02727	2.28326	2.31053	0.02682	0.32576	0.35259	—	1,486.52	1,486.52	0.07537	0.12113	0.32472	1,524.83
% Reduced	1%	1%	22%	-44%	> -0.5%	41%	—	1%	39%	—	5%	—	> -0.5%	> -0.5%	> -0.5%	> -0.5%	—	> -0.5%

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	4.75974	2.27415	41.7917	36.3767	0.27050	0.89333	71.0691	71.9625	0.85592	10.1897	11.0456	—	32,488.0	32,488.0	2.14314	4.27130	21.0823	33,835.5
2038	1.48469	1.07572	9.51787	16.7440	0.06772	0.24440	6.05840	6.30280	0.22834	0.97213	1.20047	—	8,012.29	8,012.29	0.32469	0.57028	3.76983	8,194.12
2039	50.0301	49.4513	17.2107	30.6086	0.10881	0.30070	8.03660	8.33730	0.28013	1.44210	1.72223	—	12,470.8	12,470.8	0.43572	0.76249	5.79723	12,714.7
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.69059	2.11798	13.1889	26.1823	0.10145	0.33141	12.1395	12.3244	0.30677	1.60011	1.77199	—	11,289.5	11,289.5	0.44101	0.48992	0.11505	11,446.6
2038	4.13381	3.16986	22.4802	42.3300	0.16921	0.56410	13.9058	14.4699	0.52431	2.11138	2.63569	—	19,097.8	19,097.8	0.75143	1.05618	0.19738	19,431.5
2039	49.1757	48.8508	11.1451	19.2502	0.06803	0.23728	6.05840	6.29568	0.22179	0.97213	1.19392	—	7,855.35	7,855.35	0.32571	0.54912	0.09718	8,027.22
2040	49.1599	48.8347	11.0044	19.1238	0.06266	0.11538	4.71230	4.82768	0.10675	0.90660	1.01334	—	7,033.45	7,033.45	0.20060	0.32603	0.08393	7,135.71
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.76299	1.20787	11.2396	15.9070	0.07905	0.25503	12.5110	12.7660	0.23954	1.78501	2.02455	—	8,976.02	8,976.02	0.45515	0.73163	1.96135	9,207.39
2038	1.36168	1.00617	8.34552	14.5854	0.05975	0.21068	5.14214	5.35282	0.19651	0.81402	1.01053	—	6,944.34	6,944.34	0.27995	0.46146	1.34679	7,090.20
2039	22.0574	21.8243	7.04154	12.1244	0.04330	0.11088	3.42113	3.53201	0.10317	0.60990	0.71308	—	4,951.23	4,951.23	0.16763	0.28996	1.02831	5,042.86
2040	4.42523	4.39592	0.98273	1.72175	0.00561	0.01039	0.42020	0.43059	0.00961	0.08102	0.09063	—	633.692	633.692	0.01806	0.02935	0.12585	643.015
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.32175	0.22044	2.05122	2.90303	0.01443	0.04654	2.28326	2.32980	0.04372	0.32576	0.36948	—	1,486.08	1,486.08	0.07536	0.12113	0.32472	1,524.39
2038	0.24851	0.18363	1.52306	2.66184	0.01090	0.03845	0.93844	0.97689	0.03586	0.14856	0.18442	—	1,149.71	1,149.71	0.04635	0.07640	0.22298	1,173.86
2039	4.02548	3.98294	1.28508	2.21270	0.00790	0.02024	0.62436	0.64459	0.01883	0.11131	0.13014	—	819.733	819.733	0.02775	0.04801	0.17025	834.903
2040	0.80760	0.80226	0.17935	0.31422	0.00102	0.00190	0.07669	0.07858	0.00175	0.01479	0.01654	—	104.915	104.915	0.00299	0.00486	0.02084	106.458

2.2.2. Onsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.30567	1.92814	10.8781	22.2805	0.06921	0.46806	4.13874	4.60679	0.43065	1.84008	2.27073	—	7,266.03	7,266.03	0.29458	0.07535	0.15799	7,296.01
2038	1.10283	0.92276	6.30302	12.6462	0.03384	0.20122	0.77831	0.97953	0.18516	0.08317	0.26833	—	3,619.99	3,619.99	0.14726	0.04111	0.09290	3,636.02
2039	49.4661	49.1570	13.3334	23.7566	0.05508	0.25751	1.02071	1.13197	0.23695	0.12274	0.33137	—	5,658.68	5,658.68	0.22857	0.06933	0.18883	5,685.24
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.30554	1.92774	10.2122	22.2855	0.06925	0.30839	3.10674	3.27001	0.28376	0.43594	0.58618	—	7,266.20	7,266.20	0.29454	0.07535	0.00411	7,296.02
2038	3.38503	2.83339	16.1438	34.8488	0.10287	0.49790	0.83838	1.33628	0.45811	0.09613	0.55424	—	10,852.2	10,852.2	0.43893	0.11195	0.00556	10,896.5
2039	48.8169	48.6202	9.43590	15.1278	0.03389	0.19410	1.02071	1.13197	0.17861	0.12274	0.26178	—	3,616.87	3,616.87	0.14722	0.04658	0.00398	3,632.79
2040	48.8122	48.6158	9.36342	15.1202	0.03328	0.10834	1.02071	1.12905	0.09971	0.12274	0.22245	—	3,283.00	3,283.00	0.13265	0.04453	0.00349	3,299.59
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.26590	1.05911	6.07561	11.6701	0.03695	0.19398	1.01105	1.20503	0.17848	0.28041	0.45889	—	3,899.30	3,899.30	0.15823	0.04041	0.03568	3,915.34
2038	1.04921	0.87803	5.62204	11.5667	0.03208	0.17738	0.55165	0.72904	0.16322	0.05975	0.22297	—	3,413.82	3,413.82	0.13859	0.03756	0.03458	3,428.51
2039	21.8257	21.6985	5.54287	9.60219	0.02233	0.09660	0.61239	0.70898	0.08889	0.06960	0.15849	—	2,277.49	2,277.49	0.09237	0.02977	0.03695	2,288.71
2040	4.39406	4.37638	0.84259	1.36096	0.00299	0.00975	0.09047	0.10022	0.00898	0.01090	0.01988	—	295.523	295.523	0.01194	0.00401	0.00524	297.021
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.23103	0.19329	1.10880	2.12979	0.00674	0.03540	0.18452	0.21992	0.03257	0.05118	0.08375	—	645.574	645.574	0.02620	0.00669	0.00591	648.229
2038	0.19148	0.16024	1.02602	2.11091	0.00585	0.03237	0.10068	0.13305	0.02979	0.01091	0.04069	—	565.196	565.196	0.02294	0.00622	0.00573	567.629

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2039	3.98319	3.95998	1.01157	1.75240	0.00408	0.01763	0.11176	0.12939	0.01622	0.01270	0.02892	—	377.064	377.064	0.01529	0.00493	0.00612	378.921
2040	0.80192	0.79869	0.15377	0.24838	0.00055	0.00178	0.01651	0.01829	0.00164	0.00199	0.00363	—	48.9271	48.9271	0.00198	0.00066	0.00087	49.1752

2.2.3. Offsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.70690	0.55222	30.9136	20.8292	0.22162	0.42527	66.9304	67.3557	0.42527	8.34958	8.77485	—	27,206.0	27,206.0	1.92803	4.21858	20.9996	28,532.3
2038	0.38187	0.15297	3.21486	4.09780	0.03388	0.04318	5.28009	5.32327	0.04318	0.88896	0.93214	—	4,392.30	4,392.30	0.17743	0.52917	3.67692	4,558.11
2039	0.56398	0.29428	3.87727	6.85202	0.05372	0.04318	7.21194	7.25512	0.04318	1.34767	1.39085	—	6,812.13	6,812.13	0.20715	0.69316	5.60841	7,029.48
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.38505	0.19024	2.97674	3.89675	0.03220	0.02302	9.03278	9.05442	0.02302	1.16417	1.18581	—	4,023.30	4,023.30	0.14648	0.41457	0.11095	4,150.61
2038	0.74878	0.33647	6.33642	7.48123	0.06634	0.06620	13.0674	13.1336	0.06620	2.01525	2.08145	—	8,245.64	8,245.64	0.31250	0.94424	0.19181	8,535.03
2039	0.35879	0.23067	3.31409	4.12247	0.03414	0.04318	5.28009	5.32327	0.04318	0.88896	0.93214	—	4,238.48	4,238.48	0.17849	0.50807	0.09320	4,394.43
2040	0.34777	0.21892	1.64095	4.00354	0.02939	0.00704	3.69160	3.69864	0.00704	0.78386	0.79090	—	3,750.46	3,750.46	0.06795	0.28149	0.08044	3,836.12
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.49709	0.14876	5.16394	4.23695	0.04210	0.06106	11.5000	11.5610	0.06106	1.50460	1.56565	—	5,076.72	5,076.72	0.29692	0.69121	1.92567	5,292.05
2038	0.31246	0.12814	2.72348	3.01875	0.02767	0.03329	4.59049	4.62378	0.03329	0.75427	0.78756	—	3,530.52	3,530.52	0.14136	0.42390	1.31221	3,661.69
2039	0.23174	0.12581	1.49867	2.52222	0.02097	0.01428	2.80874	2.82303	0.01428	0.54031	0.55459	—	2,673.75	2,673.75	0.07526	0.26019	0.99136	2,754.16

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2040	0.03117	0.01954	0.14014	0.36079	0.00262	0.00063	0.32973	0.33037	0.00063	0.07012	0.07075	—	338.169	338.169	0.00612	0.02534	0.12061	345.994
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.09072	0.02715	0.94242	0.77324	0.00768	0.01114	2.09874	2.10989	0.01114	0.27459	0.28573	—	840.509	840.509	0.04916	0.11444	0.31882	876.159
2038	0.05702	0.02339	0.49703	0.55092	0.00505	0.00608	0.83776	0.84384	0.00608	0.13765	0.14373	—	584.518	584.518	0.02340	0.07018	0.21725	606.235
2039	0.04229	0.02296	0.27351	0.46030	0.00383	0.00261	0.51260	0.51520	0.00261	0.09861	0.10121	—	442.669	442.669	0.01246	0.04308	0.16413	455.982
2040	0.00569	0.00357	0.02557	0.06584	0.00048	0.00012	0.06018	0.06029	0.00012	0.01280	0.01291	—	55.9877	55.9877	0.00101	0.00420	0.01997	57.2832

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	3.20686	1.52420	33.5659	47.3781	0.27051	0.52419	71.0691	71.5933	0.52419	10.1897	10.7139	—	32,489.2	32,489.2	2.14319	4.27131	21.0823	33,836.7
2038	0.88955	0.61806	6.39250	22.3874	0.06772	0.11702	6.05840	6.17542	0.11535	0.97213	1.08748	—	8,012.35	8,012.35	0.32469	0.57028	3.76983	8,194.18
2039	49.3228	48.9335	12.8623	42.8591	0.11433	0.16966	8.03660	8.20627	0.16674	1.44210	1.60884	—	13,068.9	13,068.9	0.45998	0.76735	5.79723	13,314.8
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.83886	1.47847	9.91650	38.3921	0.10150	0.19253	12.1395	12.2574	0.18663	1.60011	1.71787	—	11,295.4	11,295.4	0.44125	0.48997	0.11505	11,452.6
2038	2.70128	2.08473	16.2948	60.2275	0.16927	0.30593	13.9058	14.2117	0.29862	2.11138	2.41000	—	19,103.8	19,103.8	0.75167	1.05623	0.19738	19,437.6
2039	48.8648	48.6401	9.20690	28.4888	0.06820	0.11605	6.05840	6.17445	0.11446	0.97213	1.08659	—	7,855.42	7,855.42	0.32571	0.54912	0.09718	8,027.28
2040	48.8548	48.6289	9.12771	28.3748	0.06820	0.08647	4.71230	4.79878	0.08493	0.90660	0.99153	—	7,632.66	7,632.66	0.22490	0.33089	0.08393	7,736.97

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.18747	0.76891	8.78818	22.9659	0.07907	0.14943	12.5110	12.6604	0.14697	1.78501	1.93198	—	8,978.66	8,978.66	0.45526	0.73165	1.96135	9,210.03
2038	0.84174	0.60828	5.77216	20.0221	0.05975	0.10508	5.14214	5.24722	0.10324	0.81402	0.91726	—	6,945.08	6,945.08	0.27998	0.46147	1.34679	7,090.95
2039	21.7857	21.6277	5.43366	17.3815	0.04575	0.06602	3.42113	3.48716	0.06491	0.60990	0.67481	—	5,216.05	5,216.05	0.17837	0.29210	1.02831	5,308.58
2040	4.39776	4.37739	0.81379	2.55452	0.00611	0.00778	0.42020	0.42798	0.00765	0.08102	0.08866	—	687.632	687.632	0.02025	0.02979	0.12585	697.140
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.21671	0.14033	1.60384	4.19128	0.01443	0.02727	2.28326	2.31053	0.02682	0.32576	0.35259	—	1,486.52	1,486.52	0.07537	0.12113	0.32472	1,524.83
2038	0.15362	0.11101	1.05342	3.65403	0.01090	0.01918	0.93844	0.95762	0.01884	0.14856	0.16740	—	1,149.84	1,149.84	0.04635	0.07640	0.22298	1,173.99
2039	3.97589	3.94705	0.99164	3.17212	0.00835	0.01205	0.62436	0.63641	0.01185	0.11131	0.12315	—	863.576	863.576	0.02953	0.04836	0.17025	878.897
2040	0.80259	0.79887	0.14852	0.46620	0.00111	0.00142	0.07669	0.07811	0.00140	0.01479	0.01618	—	113.845	113.845	0.00335	0.00493	0.02084	115.420

2.2.5. Onsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.45394	1.28863	6.93265	34.4903	0.06926	0.16951	4.13874	4.23766	0.16362	1.84008	1.93900	—	7,271.98	7,271.98	0.29482	0.07540	0.15799	7,301.97
2038	0.50769	0.46509	3.17764	18.2896	0.03384	0.07384	0.77831	0.85214	0.07217	0.08317	0.15533	—	3,620.05	3,620.05	0.14726	0.04111	0.09290	3,636.08
2039	48.7588	48.6392	8.98501	36.0071	0.06061	0.12648	1.02071	1.10080	0.12356	0.12274	0.21799	—	6,256.74	6,256.74	0.25283	0.07418	0.18883	6,285.35
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2037	1.45381	1.28824	6.93976	34.4953	0.06930	0.16951	3.10674	3.20298	0.16362	0.43594	0.53206	—	7,272.14	7,272.14	0.29478	0.07540	0.00411	7,301.98
2038	1.95250	1.74826	9.95838	52.7463	0.10293	0.23973	0.83838	1.07812	0.23242	0.09613	0.32855	—	10,858.2	10,858.2	0.43917	0.11200	0.00556	10,902.5
2039	48.5060	48.4095	7.49767	24.3663	0.03882	0.08010	1.02071	1.10080	0.07851	0.12274	0.20124	—	3,887.97	3,887.97	0.15721	0.05145	0.00398	3,907.24
2040	48.5071	48.4100	7.48676	24.3712	0.03882	0.07943	1.02071	1.10014	0.07790	0.12274	0.20063	—	3,882.21	3,882.21	0.15695	0.04940	0.00349	3,900.85
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.69038	0.62015	3.62424	18.7290	0.03697	0.08837	1.01105	1.09943	0.08591	0.28041	0.36632	—	3,901.94	3,901.94	0.15834	0.04044	0.03568	3,917.98
2038	0.52928	0.48013	3.04868	17.0033	0.03208	0.07179	0.55165	0.62344	0.06994	0.05975	0.12970	—	3,414.56	3,414.56	0.13862	0.03757	0.03458	3,429.26
2039	21.5539	21.5019	3.93499	14.8593	0.02478	0.05174	0.61239	0.66413	0.05063	0.06960	0.12022	—	2,542.30	2,542.30	0.10311	0.03192	0.03695	2,554.43
2040	4.36660	4.35785	0.67366	2.19373	0.00349	0.00715	0.09047	0.09762	0.00701	0.01090	0.01792	—	349.463	349.463	0.01413	0.00445	0.00524	351.147
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.12599	0.11318	0.66142	3.41804	0.00675	0.01613	0.18452	0.20065	0.01568	0.05118	0.06685	—	646.011	646.011	0.02621	0.00669	0.00591	648.667
2038	0.09659	0.08762	0.55638	3.10311	0.00585	0.01310	0.10068	0.11378	0.01276	0.01091	0.02367	—	565.319	565.319	0.02295	0.00622	0.00573	567.752
2039	3.93360	3.92409	0.71814	2.71182	0.00452	0.00944	0.11176	0.12120	0.00924	0.01270	0.02194	—	420.907	420.907	0.01707	0.00528	0.00612	422.915
2040	0.79690	0.79531	0.12294	0.40036	0.00064	0.00130	0.01651	0.01782	0.00128	0.00199	0.00327	—	57.8576	57.8576	0.00234	0.00074	0.00087	58.1363

2.2.6. Offsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	2.70690	0.55222	30.9136	20.8292	0.22162	0.42527	66.9304	67.3557	0.42527	8.34958	8.77485	—	27,206.0	27,206.0	1.92803	4.21858	20.9996	28,532.3

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
2038	0.38187	0.15297	3.21486	4.09780	0.03388	0.04318	5.28009	5.32327	0.04318	0.88896	0.93214	—	4,392.30	4,392.30	0.17743	0.52917	3.67692	4,558.11
2039	0.56398	0.29428	3.87727	6.85202	0.05372	0.04318	7.21194	7.25512	0.04318	1.34767	1.39085	—	6,812.13	6,812.13	0.20715	0.69316	5.60841	7,029.48
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.38505	0.19024	2.97674	3.89675	0.03220	0.02302	9.03278	9.05442	0.02302	1.16417	1.18581	—	4,023.30	4,023.30	0.14648	0.41457	0.11095	4,150.61
2038	0.74878	0.33647	6.33642	7.48123	0.06634	0.06620	13.0674	13.1336	0.06620	2.01525	2.08145	—	8,245.64	8,245.64	0.31250	0.94424	0.19181	8,535.03
2039	0.35879	0.23067	3.31409	4.12247	0.03414	0.04318	5.28009	5.32327	0.04318	0.88896	0.93214	—	4,238.48	4,238.48	0.17849	0.50807	0.09320	4,394.43
2040	0.34777	0.21892	1.64095	4.00354	0.02939	0.00704	3.69160	3.69864	0.00704	0.78386	0.79090	—	3,750.46	3,750.46	0.06795	0.28149	0.08044	3,836.12
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.49709	0.14876	5.16394	4.23695	0.04210	0.06106	11.5000	11.5610	0.06106	1.50460	1.56565	—	5,076.72	5,076.72	0.29692	0.69121	1.92567	5,292.05
2038	0.31246	0.12814	2.72348	3.01875	0.02767	0.03329	4.59049	4.62378	0.03329	0.75427	0.78756	—	3,530.52	3,530.52	0.14136	0.42390	1.31221	3,661.69
2039	0.23174	0.12581	1.49867	2.52222	0.02097	0.01428	2.80874	2.82303	0.01428	0.54031	0.55459	—	2,673.75	2,673.75	0.07526	0.26019	0.99136	2,754.16
2040	0.03117	0.01954	0.14014	0.36079	0.00262	0.00063	0.32973	0.33037	0.00063	0.07012	0.07075	—	338.169	338.169	0.00612	0.02534	0.12061	345.994
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.09072	0.02715	0.94242	0.77324	0.00768	0.01114	2.09874	2.10989	0.01114	0.27459	0.28573	—	840.509	840.509	0.04916	0.11444	0.31882	876.159
2038	0.05702	0.02339	0.49703	0.55092	0.00505	0.00608	0.83776	0.84384	0.00608	0.13765	0.14373	—	584.518	584.518	0.02340	0.07018	0.21725	606.235
2039	0.04229	0.02296	0.27351	0.46030	0.00383	0.00261	0.51260	0.51520	0.00261	0.09861	0.10121	—	442.669	442.669	0.01246	0.04308	0.16413	455.982
2040	0.00569	0.00357	0.02557	0.06584	0.00048	0.00012	0.06018	0.06029	0.00012	0.01280	0.01291	—	55.9877	55.9877	0.00101	0.00420	0.01997	57.2832

3. Construction Emissions Details

3.1. Phase 1 Site Prep (2037)

3.1.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99102	0.83224	8.42646	8.64882	0.03562	0.16283	—	0.16283	0.14980	—	0.14980	—	3,837.60	3,837.60	0.15567	0.03113	—	3,850.77
Demolition	—	—	—	—	—	—	2.32589	2.32589	—	0.35221	0.35221	—	—	—	—	—	—	—
Onsite truck	0.00441	0.00282	0.05979	0.03598	0.00088	0.00000	0.03091	0.03091	0.00000	0.00751	0.00751	—	74.0275	74.0275	0.00176	0.00864	0.09269	76.7397
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99102	0.83224	8.42646	8.64882	0.03562	0.16283	—	0.16283	0.14980	—	0.14980	—	3,837.60	3,837.60	0.15567	0.03113	—	3,850.77
Demolition	—	—	—	—	—	—	2.32589	2.32589	—	0.35221	0.35221	—	—	—	—	—	—	—
Onsite truck	0.00441	0.00265	0.06261	0.03898	0.00088	0.00000	0.03091	0.03091	0.00000	0.00751	0.00751	—	74.1048	74.1048	0.00176	0.00864	0.00241	76.7266
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06245	0.05244	0.53098	0.54499	0.00224	0.01026	—	0.01026	0.00944	—	0.00944	—	241.822	241.822	0.00981	0.00196	—	242.651

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Demolition	—	—	—	—	—	—	0.14656	0.14656	—	0.02219	0.02219	—	—	—	—	—	—	—
Onsite truck	0.00028	0.00017	0.00388	0.00240	0.00006	0.00000	0.00194	0.00194	0.00000	0.00047	0.00047	—	4.66676	4.66676	0.00011	0.00054	0.00252	4.83434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01140	0.00957	0.09690	0.09946	0.00041	0.00187	—	0.00187	0.00172	—	0.00172	—	40.0363	40.0363	0.00162	0.00032	—	40.1737
Demolition	—	—	—	—	—	—	0.02675	0.02675	—	0.00405	0.00405	—	—	—	—	—	—	—
Onsite truck	0.00005	0.00003	0.00071	0.00044	0.00001	0.00000	0.00035	0.00035	0.00000	0.00009	0.00009	—	0.77264	0.77264	0.00002	0.00009	0.00042	0.80038

3.1.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12236	0.12125	0.07496	2.00951	0.00000	0.00000	0.88317	0.88317	0.00000	0.20701	0.20701	—	764.209	764.209	0.00441	0.00331	0.81968	766.125
Vendor	0.03439	0.01905	0.50742	0.22434	0.01323	0.00000	0.46361	0.46361	0.00000	0.11259	0.11259	—	1,066.93	1,066.93	0.01587	0.12117	1.39030	1,104.83
Hauling	0.15689	0.03517	1.81600	1.18933	0.01082	0.02164	7.68600	7.70764	0.02164	0.84456	0.86620	—	1,347.59	1,347.59	0.10910	0.21550	0.98718	1,415.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12125	0.09149	0.10692	1.63363	0.00000	0.00000	0.88317	0.88317	0.00000	0.20701	0.20701	—	712.185	712.185	0.00551	0.00331	0.02124	713.329
Vendor	0.03439	0.01852	0.52646	0.22276	0.01323	0.00000	0.46361	0.46361	0.00000	0.11259	0.11259	—	1,067.15	1,067.15	0.01587	0.12117	0.03613	1,103.69

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.15419	0.03246	1.91970	1.20105	0.01172	0.02164	7.68600	7.70764	0.02164	0.84456	0.86620	—	1,348.67	1,348.67	0.10820	0.21550	0.02569	1,415.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00750	0.00563	0.00667	0.10245	0.00000	0.00000	0.05538	0.05538	0.00000	0.01298	0.01298	—	45.0731	45.0731	0.00035	0.00021	0.02230	45.1661
Vendor	0.00217	0.00117	0.03297	0.01454	0.00083	0.00000	0.02908	0.02908	0.00000	0.00706	0.00706	—	67.2367	67.2367	0.00100	0.00764	0.03778	69.5748
Hauling	0.00983	0.00216	0.11858	0.07523	0.00074	0.00136	0.47474	0.47610	0.00136	0.05225	0.05361	—	84.9452	84.9452	0.00688	0.01358	0.02691	89.1907
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00137	0.00103	0.00122	0.01870	0.00000	0.00000	0.01011	0.01011	0.00000	0.00237	0.00237	—	7.46236	7.46236	0.00006	0.00003	0.00369	7.47777
Vendor	0.00040	0.00021	0.00602	0.00265	0.00015	0.00000	0.00531	0.00531	0.00000	0.00129	0.00129	—	11.1318	11.1318	0.00017	0.00126	0.00626	11.5189
Hauling	0.00179	0.00039	0.02164	0.01373	0.00013	0.00025	0.08664	0.08689	0.00025	0.00954	0.00978	—	14.0636	14.0636	0.00114	0.00225	0.00446	14.7665

3.1.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39502	0.38885	6.54973	19.3360	0.03563	0.09580	—	0.09580	0.09568	—	0.09568	—	3,837.91	3,837.91	0.15568	0.03114	—	3,851.08
Demolition	—	—	—	—	—	—	2.32589	2.32589	—	0.35221	0.35221	—	—	—	—	—	—	—
Onsite truck	0.00441	0.00282	0.05979	0.03598	0.00088	0.00000	0.03091	0.03091	0.00000	0.00751	0.00751	—	74.0275	74.0275	0.00176	0.00864	0.09269	76.7397

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39502	0.38885	6.54973	19.3360	0.03563	0.09580	—	0.09580	0.09568	—	0.09568	—	3,837.91	3,837.91	0.15568	0.03114	—	3,851.08
Demolition	—	—	—	—	—	—	2.32589	2.32589	—	0.35221	0.35221	—	—	—	—	—	—	—
Onsite truck	0.00441	0.00265	0.06261	0.03898	0.00088	0.00000	0.03091	0.03091	0.00000	0.00751	0.00751	—	74.1048	74.1048	0.00176	0.00864	0.00241	76.7266
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02489	0.02450	0.41272	1.21844	0.00224	0.00604	—	0.00604	0.00603	—	0.00603	—	241.841	241.841	0.00981	0.00196	—	242.671
Demolition	—	—	—	—	—	—	0.14656	0.14656	—	0.02219	0.02219	—	—	—	—	—	—	—
Onsite truck	0.00028	0.00017	0.00388	0.00240	0.00006	0.00000	0.00194	0.00194	0.00000	0.00047	0.00047	—	4.66676	4.66676	0.00011	0.00054	0.00252	4.83434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00454	0.00447	0.07532	0.22236	0.00041	0.00110	—	0.00110	0.00110	—	0.00110	—	40.0395	40.0395	0.00162	0.00032	—	40.1769
Demolition	—	—	—	—	—	—	0.02675	0.02675	—	0.00405	0.00405	—	—	—	—	—	—	—
Onsite truck	0.00005	0.00003	0.00071	0.00044	0.00001	0.00000	0.00035	0.00035	0.00000	0.00009	0.00009	—	0.77264	0.77264	0.00002	0.00009	0.00042	0.80038

3.1.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12236	0.12125	0.07496	2.00951	0.00000	0.00000	0.88317	0.88317	0.00000	0.20701	0.20701	—	764.209	764.209	0.00441	0.00331	0.81968	766.125
Vendor	0.03439	0.01905	0.50742	0.22434	0.01323	0.00000	0.46361	0.46361	0.00000	0.11259	0.11259	—	1,066.93	1,066.93	0.01587	0.12117	1.39030	1,104.83
Hauling	0.15689	0.03517	1.81600	1.18933	0.01082	0.02164	7.68600	7.70764	0.02164	0.84456	0.86620	—	1,347.59	1,347.59	0.10910	0.21550	0.98718	1,415.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12125	0.09149	0.10692	1.63363	0.00000	0.00000	0.88317	0.88317	0.00000	0.20701	0.20701	—	712.185	712.185	0.00551	0.00331	0.02124	713.329
Vendor	0.03439	0.01852	0.52646	0.22276	0.01323	0.00000	0.46361	0.46361	0.00000	0.11259	0.11259	—	1,067.15	1,067.15	0.01587	0.12117	0.03613	1,103.69
Hauling	0.15419	0.03246	1.91970	1.20105	0.01172	0.02164	7.68600	7.70764	0.02164	0.84456	0.86620	—	1,348.67	1,348.67	0.10820	0.21550	0.02569	1,415.62
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00750	0.00563	0.00667	0.10245	0.00000	0.00000	0.05538	0.05538	0.00000	0.01298	0.01298	—	45.0731	45.0731	0.00035	0.00021	0.02230	45.1661
Vendor	0.00217	0.00117	0.03297	0.01454	0.00083	0.00000	0.02908	0.02908	0.00000	0.00706	0.00706	—	67.2367	67.2367	0.00100	0.00764	0.03778	69.5748
Hauling	0.00983	0.00216	0.11858	0.07523	0.00074	0.00136	0.47474	0.47610	0.00136	0.05225	0.05361	—	84.9452	84.9452	0.00688	0.01358	0.02691	89.1907
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00137	0.00103	0.00122	0.01870	0.00000	0.00000	0.01011	0.01011	0.00000	0.00237	0.00237	—	7.46236	7.46236	0.00006	0.00003	0.00369	7.47777
Vendor	0.00040	0.00021	0.00602	0.00265	0.00015	0.00000	0.00531	0.00531	0.00000	0.00129	0.00129	—	11.1318	11.1318	0.00017	0.00126	0.00626	11.5189
Hauling	0.00179	0.00039	0.02164	0.01373	0.00013	0.00025	0.08664	0.08689	0.00025	0.00954	0.00978	—	14.0636	14.0636	0.00114	0.00225	0.00446	14.7665

3.2. Phase 2 Earthwork (2037)

3.2.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.04529	1.71861	10.7863	15.4870	0.04806	0.46762	—	0.46762	0.43021	—	0.43021	—	5,202.89	5,202.89	0.21105	0.04221	—	5,220.75
Dust From Material Movement	—	—	—	—	—	—	3.36793	3.36793	—	1.75879	1.75879	—	—	—	—	—	—	—
Onsite truck	0.00298	0.00190	0.04036	0.02429	0.00060	0.00000	0.02086	0.02086	0.00000	0.00507	0.00507	—	49.9686	49.9686	0.00119	0.00583	0.06256	51.7993
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24095	0.20247	1.27071	1.82450	0.00566	0.05509	—	0.05509	0.05068	—	0.05068	—	612.943	612.943	0.02486	0.00497	—	615.047
Dust From Material Movement	—	—	—	—	—	—	0.39677	0.39677	—	0.20720	0.20720	—	—	—	—	—	—	—
Onsite truck	0.00035	0.00021	0.00489	0.00303	0.00007	0.00000	0.00245	0.00245	0.00000	0.00059	0.00059	—	5.88925	5.88925	0.00014	0.00069	0.00318	6.10073
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.04397	0.03695	0.23191	0.33297	0.00103	0.01005	—	0.01005	0.00925	—	0.00925	—	101.480	101.480	0.00412	0.00082	—	101.828
Dust From Material Movement	—	—	—	—	—	—	0.07241	0.07241	—	0.03781	0.03781	—	—	—	—	—	—	—
Onsite truck	0.00006	0.00004	0.00089	0.00055	0.00001	0.00000	0.00045	0.00045	0.00000	0.00011	0.00011	—	0.97503	0.97503	0.00002	0.00011	0.00053	1.01004

3.2.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09789	0.09700	0.05997	1.60761	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	611.367	611.367	0.00353	0.00265	0.65574	612.900
Vendor	0.02336	0.01294	0.34462	0.15237	0.00898	0.00000	0.31487	0.31487	0.00000	0.07647	0.07647	—	724.625	724.625	0.01078	0.08229	0.94425	750.362
Hauling	2.58565	0.44228	30.5090	19.0692	0.21264	0.42527	65.9090	66.3343	0.42527	8.10750	8.53277	—	25,870.0	25,870.0	1.91372	4.13364	19.3996	27,169.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01122	0.00842	0.00997	0.15324	0.00000	0.00000	0.08283	0.08283	0.00000	0.01941	0.01941	—	67.4136	67.4136	0.00052	0.00031	0.03335	67.5528
Vendor	0.00275	0.00148	0.04187	0.01846	0.00106	0.00000	0.03693	0.03693	0.00000	0.00897	0.00897	—	85.3736	85.3736	0.00127	0.00969	0.04798	88.3424
Hauling	0.30361	0.05110	3.73249	2.25152	0.02605	0.05010	7.62144	7.67154	0.05010	0.94026	0.99036	—	3,048.20	3,048.20	0.22545	0.48698	0.98868	3,199.94

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00205	0.00154	0.00182	0.02797	0.00000	0.00000	0.01512	0.01512	0.00000	0.00354	0.00354	—	11.1611	11.1611	0.00009	0.00005	0.00552	11.1841
Vendor	0.00050	0.00027	0.00764	0.00337	0.00019	0.00000	0.00674	0.00674	0.00000	0.00164	0.00164	—	14.1346	14.1346	0.00021	0.00161	0.00794	14.6261
Hauling	0.05541	0.00933	0.68118	0.41090	0.00475	0.00914	1.39091	1.40006	0.00914	0.17160	0.18074	—	504.664	504.664	0.03733	0.08062	0.16369	529.787

3.2.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49240	0.49240	2.56048	26.4884	0.04807	0.09848	—	0.09848	0.09848	—	0.09848	—	5,204.07	5,204.07	0.21110	0.04222	—	5,221.93
Dust From Material Movement	—	—	—	—	—	—	3.36793	3.36793	—	1.75879	1.75879	—	—	—	—	—	—	—
Onsite truck	0.00298	0.00190	0.04036	0.02429	0.00060	0.00000	0.02086	0.02086	0.00000	0.00507	0.00507	—	49.9686	49.9686	0.00119	0.00583	0.06256	51.7993
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05801	0.05801	0.30165	3.12055	0.00566	0.01160	—	0.01160	0.01160	—	0.01160	—	613.082	613.082	0.02487	0.00497	—	615.186

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	0.39677	0.39677	—	0.20720	0.20720	—	—	—	—	—	—	—
Onsite truck	0.00035	0.00021	0.00489	0.00303	0.00007	0.00000	0.00245	0.00245	0.00000	0.00059	0.00059	—	5.88925	5.88925	0.00014	0.00069	0.00318	6.10073
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01059	0.01059	0.05505	0.56950	0.00103	0.00212	—	0.00212	0.00212	—	0.00212	—	101.503	101.503	0.00412	0.00082	—	101.851
Dust From Material Movement	—	—	—	—	—	—	0.07241	0.07241	—	0.03781	0.03781	—	—	—	—	—	—	—
Onsite truck	0.00006	0.00004	0.00089	0.00055	0.00001	0.00000	0.00045	0.00045	0.00000	0.00011	0.00011	—	0.97503	0.97503	0.00002	0.00011	0.00053	1.01004

3.2.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09789	0.09700	0.05997	1.60761	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	611.367	611.367	0.00353	0.00265	0.65574	612.900
Vendor	0.02336	0.01294	0.34462	0.15237	0.00898	0.00000	0.31487	0.31487	0.00000	0.07647	0.07647	—	724.625	724.625	0.01078	0.08229	0.94425	750.362
Hauling	2.58565	0.44228	30.5090	19.0692	0.21264	0.42527	65.9090	66.3343	0.42527	8.10750	8.53277	—	25,870.0	25,870.0	1.91372	4.13364	19.3996	27,169.0

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01122	0.00842	0.00997	0.15324	0.00000	0.00000	0.08283	0.08283	0.00000	0.01941	0.01941	—	67.4136	67.4136	0.00052	0.00031	0.03335	67.5528
Vendor	0.00275	0.00148	0.04187	0.01846	0.00106	0.00000	0.03693	0.03693	0.00000	0.00897	0.00897	—	85.3736	85.3736	0.00127	0.00969	0.04798	88.3424
Hauling	0.30361	0.05110	3.73249	2.25152	0.02605	0.05010	7.62144	7.67154	0.05010	0.94026	0.99036	—	3,048.20	3,048.20	0.22545	0.48698	0.98868	3,199.94
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00205	0.00154	0.00182	0.02797	0.00000	0.00000	0.01512	0.01512	0.00000	0.00354	0.00354	—	11.1611	11.1611	0.00009	0.00005	0.00552	11.1841
Vendor	0.00050	0.00027	0.00764	0.00337	0.00019	0.00000	0.00674	0.00674	0.00000	0.00164	0.00164	—	14.1346	14.1346	0.00021	0.00161	0.00794	14.6261
Hauling	0.05541	0.00933	0.68118	0.41090	0.00475	0.00914	1.39091	1.40006	0.00914	0.17160	0.18074	—	504.664	504.664	0.03733	0.08062	0.16369	529.787

3.3. Phase 3 Foundation (2037)

3.3.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.29453	1.92253	10.0647	22.1907	0.06767	0.30795	—	0.30795	0.28332	—	0.28332	—	7,126.75	7,126.75	0.28909	0.05782	—	7,151.21

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	0.01410	0.01410	—	0.00180	0.00180	—	—	—	—	—	—	—
Onsite truck	0.00656	0.00420	0.08894	0.05352	0.00131	0.00000	0.04597	0.04597	0.00000	0.01117	0.01117	—	110.116	110.116	0.00262	0.01286	0.13787	114.150
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.29453	1.92253	10.0647	22.1907	0.06767	0.30795	—	0.30795	0.28332	—	0.28332	—	7,126.75	7,126.75	0.28909	0.05782	—	7,151.21
Dust From Material Movement	—	—	—	—	—	—	0.01410	0.01410	—	0.00180	0.00180	—	—	—	—	—	—	—
Onsite truck	0.00656	0.00394	0.09313	0.05798	0.00131	0.00000	0.04597	0.04597	0.00000	0.01117	0.01117	—	110.231	110.231	0.00262	0.01286	0.00358	114.131
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.95643	0.80137	4.19526	9.24976	0.02821	0.12836	—	0.12836	0.11809	—	0.11809	—	2,970.64	2,970.64	0.12050	0.02410	—	2,980.84
Dust From Material Movement	—	—	—	—	—	—	0.00588	0.00588	—	0.00075	0.00075	—	—	—	—	—	—	—
Onsite truck	0.00273	0.00164	0.03817	0.02362	0.00055	0.00000	0.01908	0.01908	0.00000	0.00463	0.00463	—	45.9194	45.9194	0.00109	0.00536	0.02479	47.5683

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17455	0.14625	0.76564	1.68808	0.00515	0.02343	—	0.02343	0.02155	—	0.02155	—	491.824	491.824	0.01995	0.00399	—	493.511
Dust From Material Movement	—	—	—	—	—	—	0.00107	0.00107	—	0.00014	0.00014	—	—	—	—	—	—	—
Onsite truck	0.00050	0.00030	0.00697	0.00431	0.00010	0.00000	0.00348	0.00348	0.00000	0.00085	0.00085	—	7.60248	7.60248	0.00018	0.00089	0.00410	7.87548

3.3.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17130	0.16976	0.10494	2.81332	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	1,069.89	1,069.89	0.00617	0.00463	1.14755	1,072.57
Vendor	0.05130	0.02841	0.75690	0.33464	0.01973	0.00000	0.69154	0.69154	0.00000	0.16795	0.16795	—	1,591.51	1,591.51	0.02368	0.18074	2.07387	1,648.03
Hauling	0.16687	0.03740	1.93145	1.26494	0.01151	0.02302	5.87084	5.89386	0.02302	0.66852	0.69153	—	1,433.26	1,433.26	0.11604	0.22920	1.04993	1,505.51
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16976	0.12809	0.14969	2.28708	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	997.058	997.058	0.00772	0.00463	0.02974	998.661
Vendor	0.05130	0.02762	0.78531	0.33228	0.01973	0.00000	0.69154	0.69154	0.00000	0.16795	0.16795	—	1,591.84	1,591.84	0.02368	0.18074	0.05389	1,646.34
Hauling	0.16399	0.03452	2.04173	1.27740	0.01247	0.02302	5.87084	5.89386	0.02302	0.66852	0.69153	—	1,434.40	1,434.40	0.11508	0.22920	0.02732	1,505.61

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06947	0.05210	0.06175	0.94882	0.00000	0.00000	0.51287	0.51287	0.00000	0.12018	0.12018	—	417.416	417.416	0.00322	0.00193	0.20651	418.278
Vendor	0.02138	0.01151	0.32537	0.14344	0.00822	0.00000	0.28697	0.28697	0.00000	0.06969	0.06969	—	663.441	663.441	0.00987	0.07534	0.37283	686.511
Hauling	0.06916	0.01519	0.83427	0.52926	0.00520	0.00959	2.39972	2.40931	0.00959	0.27381	0.28341	—	597.624	597.624	0.04837	0.09554	0.18933	627.494
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01268	0.00951	0.01127	0.17316	0.00000	0.00000	0.09360	0.09360	0.00000	0.02193	0.02193	—	69.1079	69.1079	0.00053	0.00032	0.03419	69.2506
Vendor	0.00390	0.00210	0.05938	0.02618	0.00150	0.00000	0.05237	0.05237	0.00000	0.01272	0.01272	—	109.840	109.840	0.00163	0.01247	0.06173	113.660
Hauling	0.01262	0.00277	0.15225	0.09659	0.00095	0.00175	0.43795	0.43970	0.00175	0.04997	0.05172	—	98.9436	98.9436	0.00801	0.01582	0.03134	103.889

3.3.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44280	1.28302	6.79226	34.4005	0.06773	0.16907	—	0.16907	0.16317	—	0.16317	—	7,132.69	7,132.69	0.28933	0.05787	—	7,157.17
Dust From Material Movement	—	—	—	—	—	—	0.01410	0.01410	—	0.00180	0.00180	—	—	—	—	—	—	—
Onsite truck	0.00656	0.00420	0.08894	0.05352	0.00131	0.00000	0.04597	0.04597	0.00000	0.01117	0.01117	—	110.116	110.116	0.00262	0.01286	0.13787	114.150

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44280	1.28302	6.79226	34.4005	0.06773	0.16907	—	0.16907	0.16317	—	0.16317	—	7,132.69	7,132.69	0.28933	0.05787	—	7,157.17
Dust From Material Movement	—	—	—	—	—	—	0.01410	0.01410	—	0.00180	0.00180	—	—	—	—	—	—	—
Onsite truck	0.00656	0.00394	0.09313	0.05798	0.00131	0.00000	0.04597	0.04597	0.00000	0.01117	0.01117	—	110.231	110.231	0.00262	0.01286	0.00358	114.131
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60140	0.53480	2.83122	14.3392	0.02823	0.07047	—	0.07047	0.06802	—	0.06802	—	2,973.12	2,973.12	0.12060	0.02412	—	2,983.32
Dust From Material Movement	—	—	—	—	—	—	0.00588	0.00588	—	0.00075	0.00075	—	—	—	—	—	—	—
Onsite truck	0.00273	0.00164	0.03817	0.02362	0.00055	0.00000	0.01908	0.01908	0.00000	0.00463	0.00463	—	45.9194	45.9194	0.00109	0.00536	0.02479	47.5683
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10976	0.09760	0.51670	2.61690	0.00515	0.01286	—	0.01286	0.01241	—	0.01241	—	492.234	492.234	0.01997	0.00399	—	493.923

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Dust From Material Movement	—	—	—	—	—	—	0.00107	0.00107	—	0.00014	0.00014	—	—	—	—	—	—	—
Onsite truck	0.00050	0.00030	0.00697	0.00431	0.00010	0.00000	0.00348	0.00348	0.00000	0.00085	0.00085	—	7.60248	7.60248	0.00018	0.00089	0.00410	7.87548

3.3.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17130	0.16976	0.10494	2.81332	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	1,069.89	1,069.89	0.00617	0.00463	1.14755	1,072.57
Vendor	0.05130	0.02841	0.75690	0.33464	0.01973	0.00000	0.69154	0.69154	0.00000	0.16795	0.16795	—	1,591.51	1,591.51	0.02368	0.18074	2.07387	1,648.03
Hauling	0.16687	0.03740	1.93145	1.26494	0.01151	0.02302	5.87084	5.89386	0.02302	0.66852	0.69153	—	1,433.26	1,433.26	0.11604	0.22920	1.04993	1,505.51
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16976	0.12809	0.14969	2.28708	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	997.058	997.058	0.00772	0.00463	0.02974	998.661
Vendor	0.05130	0.02762	0.78531	0.33228	0.01973	0.00000	0.69154	0.69154	0.00000	0.16795	0.16795	—	1,591.84	1,591.84	0.02368	0.18074	0.05389	1,646.34
Hauling	0.16399	0.03452	2.04173	1.27740	0.01247	0.02302	5.87084	5.89386	0.02302	0.66852	0.69153	—	1,434.40	1,434.40	0.11508	0.22920	0.02732	1,505.61
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06947	0.05210	0.06175	0.94882	0.00000	0.00000	0.51287	0.51287	0.00000	0.12018	0.12018	—	417.416	417.416	0.00322	0.00193	0.20651	418.278
Vendor	0.02138	0.01151	0.32537	0.14344	0.00822	0.00000	0.28697	0.28697	0.00000	0.06969	0.06969	—	663.441	663.441	0.00987	0.07534	0.37283	686.511

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.06916	0.01519	0.83427	0.52926	0.00520	0.00959	2.39972	2.40931	0.00959	0.27381	0.28341	—	597.624	597.624	0.04837	0.09554	0.18933	627.494
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01268	0.00951	0.01127	0.17316	0.00000	0.00000	0.09360	0.09360	0.00000	0.02193	0.02193	—	69.1079	69.1079	0.00053	0.00032	0.03419	69.2506
Vendor	0.00390	0.00210	0.05938	0.02618	0.00150	0.00000	0.05237	0.05237	0.00000	0.01272	0.01272	—	109.840	109.840	0.00163	0.01247	0.06173	113.660
Hauling	0.01262	0.00277	0.15225	0.09659	0.00095	0.00175	0.43795	0.43970	0.00175	0.04997	0.05172	—	98.9436	98.9436	0.00801	0.01582	0.03134	103.889

3.4. Phase 3 Foundation (2038)

3.4.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.27583	1.90683	9.74523	22.1420	0.06767	0.29668	—	0.29668	0.27295	—	0.27295	—	7,126.74	7,126.74	0.28909	0.05782	—	7,151.20
Dust From Material Movement	—	—	—	—	—	—	0.01410	0.01410	—	0.00180	0.00180	—	—	—	—	—	—	—
Onsite truck	0.00656	0.00394	0.08920	0.05667	0.00131	0.00000	0.04597	0.04597	0.00000	0.01117	0.01117	—	105.308	105.308	0.00262	0.01286	0.00315	109.207

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26722	0.22389	1.14425	2.59985	0.00795	0.03484	—	0.03484	0.03205	—	0.03205	—	836.799	836.799	0.03394	0.00679	—	839.671
Dust From Material Movement	—	—	—	—	—	—	0.00166	0.00166	—	0.00021	0.00021	—	—	—	—	—	—	—
Onsite truck	0.00077	0.00046	0.01010	0.00638	0.00015	0.00000	0.00537	0.00537	0.00000	0.00131	0.00131	—	12.3568	12.3568	0.00031	0.00151	0.00614	12.8204
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04877	0.04086	0.20883	0.47447	0.00145	0.00636	—	0.00636	0.00585	—	0.00585	—	138.542	138.542	0.00562	0.00112	—	139.017
Dust From Material Movement	—	—	—	—	—	—	0.00030	0.00030	—	0.00004	0.00004	—	—	—	—	—	—	—
Onsite truck	0.00014	0.00008	0.00184	0.00116	0.00003	0.00000	0.00098	0.00098	0.00000	0.00024	0.00024	—	2.04580	2.04580	0.00005	0.00025	0.00102	2.12256

3.4.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16513	0.12346	0.14969	2.23152	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	988.876	988.876	0.00772	0.00463	0.02516	990.474
Vendor	0.05130	0.02762	0.74190	0.32833	0.01973	0.00000	0.69154	0.69154	0.00000	0.16795	0.16795	—	1,518.16	1,518.16	0.02368	0.18074	0.04740	1,572.66
Hauling	0.15152	0.03452	2.00241	1.23233	0.01247	0.02302	5.85933	5.88235	0.02302	0.66852	0.69153	—	1,407.71	1,407.71	0.10261	0.22920	0.02370	1,478.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01921	0.01431	0.01721	0.25658	0.00000	0.00000	0.14447	0.14447	0.00000	0.03385	0.03385	—	116.617	116.617	0.00072	0.00054	0.04917	116.846
Vendor	0.00602	0.00324	0.08415	0.03772	0.00232	0.00000	0.08084	0.08084	0.00000	0.01963	0.01963	—	178.234	178.234	0.00278	0.02122	0.09243	184.720
Hauling	0.01802	0.00428	0.23039	0.14380	0.00135	0.00270	0.67463	0.67733	0.00270	0.07713	0.07983	—	165.209	165.209	0.01216	0.02691	0.04618	173.579
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00351	0.00261	0.00314	0.04683	0.00000	0.00000	0.02637	0.02637	0.00000	0.00618	0.00618	—	19.3073	19.3073	0.00012	0.00009	0.00814	19.3453
Vendor	0.00110	0.00059	0.01536	0.00688	0.00042	0.00000	0.01475	0.01475	0.00000	0.00358	0.00358	—	29.5086	29.5086	0.00046	0.00351	0.01530	30.5824
Hauling	0.00329	0.00078	0.04205	0.02624	0.00025	0.00049	0.12312	0.12361	0.00049	0.01408	0.01457	—	27.3523	27.3523	0.00201	0.00446	0.00765	28.7380

3.4.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	1.43844	1.27937	6.68520	34.3962	0.06773	0.16590	—	0.16590	0.16026	—	0.16026	—	7,132.68	7,132.68	0.28933	0.05787	—	7,157.16
Dust From Material Movement	—	—	—	—	—	—	0.01410	0.01410	—	0.00180	0.00180	—	—	—	—	—	—	—
Onsite truck	0.00656	0.00394	0.08920	0.05667	0.00131	0.00000	0.04597	0.04597	0.00000	0.01117	0.01117	—	105.308	105.308	0.00262	0.01286	0.00315	109.207
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16890	0.15022	0.78496	4.03869	0.00795	0.01948	—	0.01948	0.01882	—	0.01882	—	837.497	837.497	0.03397	0.00679	—	840.371
Dust From Material Movement	—	—	—	—	—	—	0.00166	0.00166	—	0.00021	0.00021	—	—	—	—	—	—	—
Onsite truck	0.00077	0.00046	0.01010	0.00638	0.00015	0.00000	0.00537	0.00537	0.00000	0.00131	0.00131	—	12.3568	12.3568	0.00031	0.00151	0.00614	12.8204
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03082	0.02742	0.14325	0.73706	0.00145	0.00355	—	0.00355	0.00343	—	0.00343	—	138.657	138.657	0.00562	0.00112	—	139.133
Dust From Material Movement	—	—	—	—	—	—	0.00030	0.00030	—	0.00004	0.00004	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00014	0.00008	0.00184	0.00116	0.00003	0.00000	0.00098	0.00098	0.00000	0.00024	0.00024	—	2.04580	2.04580	0.00005	0.00025	0.00102	2.12256

3.4.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16513	0.12346	0.14969	2.23152	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	988.876	988.876	0.00772	0.00463	0.02516	990.474
Vendor	0.05130	0.02762	0.74190	0.32833	0.01973	0.00000	0.69154	0.69154	0.00000	0.16795	0.16795	—	1,518.16	1,518.16	0.02368	0.18074	0.04740	1,572.66
Hauling	0.15152	0.03452	2.00241	1.23233	0.01247	0.02302	5.85933	5.88235	0.02302	0.66852	0.69153	—	1,407.71	1,407.71	0.10261	0.22920	0.02370	1,478.60
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01921	0.01431	0.01721	0.25658	0.00000	0.00000	0.14447	0.14447	0.00000	0.03385	0.03385	—	116.617	116.617	0.00072	0.00054	0.04917	116.846
Vendor	0.00602	0.00324	0.08415	0.03772	0.00232	0.00000	0.08084	0.08084	0.00000	0.01963	0.01963	—	178.234	178.234	0.00278	0.02122	0.09243	184.720
Hauling	0.01802	0.00428	0.23039	0.14380	0.00135	0.00270	0.67463	0.67733	0.00270	0.07713	0.07983	—	165.209	165.209	0.01216	0.02691	0.04618	173.579
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00351	0.00261	0.00314	0.04683	0.00000	0.00000	0.02637	0.02637	0.00000	0.00618	0.00618	—	19.3073	19.3073	0.00012	0.00009	0.00814	19.3453
Vendor	0.00110	0.00059	0.01536	0.00688	0.00042	0.00000	0.01475	0.01475	0.00000	0.00358	0.00358	—	29.5086	29.5086	0.00046	0.00351	0.01530	30.5824
Hauling	0.00329	0.00078	0.04205	0.02624	0.00025	0.00049	0.12312	0.12361	0.00049	0.01408	0.01457	—	27.3523	27.3523	0.00201	0.00446	0.00765	28.7380

3.5. Phase 4 Super Structureng Construction (2038)

3.5.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09438	0.91890	6.20040	12.5789	0.03281	0.20078	—	0.20078	0.18471	—	0.18471	—	3,525.93	3,525.93	0.14303	0.02861	—	3,538.03
Onsite truck	0.00408	0.00245	0.05204	0.03198	0.00082	0.00000	0.02859	0.02859	0.00000	0.00694	0.00694	—	65.4117	65.4117	0.00163	0.00783	0.07547	67.8615
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09438	0.91890	6.20040	12.5789	0.03281	0.20078	—	0.20078	0.18471	—	0.18471	—	3,525.93	3,525.93	0.14303	0.02861	—	3,538.03
Onsite truck	0.00408	0.00245	0.05547	0.03524	0.00082	0.00000	0.02859	0.02859	0.00000	0.00694	0.00694	—	65.4856	65.4856	0.00163	0.00799	0.00196	67.9105
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77528	0.65096	4.39245	8.91106	0.02324	0.14223	—	0.14223	0.13085	—	0.13085	—	2,497.82	2,497.82	0.10132	0.02026	—	2,506.40
Onsite truck	0.00289	0.00173	0.03791	0.02392	0.00058	0.00000	0.02016	0.02016	0.00000	0.00490	0.00490	—	46.3603	46.3603	0.00116	0.00566	0.02305	48.0998
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.14149	0.11880	0.80162	1.62627	0.00424	0.02596	—	0.02596	0.02388	—	0.02388	—	413.543	413.543	0.01678	0.00336	—	414.962
Onsite truck	0.00053	0.00032	0.00692	0.00437	0.00011	0.00000	0.00368	0.00368	0.00000	0.00089	0.00089	—	7.67548	7.67548	0.00019	0.00094	0.00382	7.96348

3.5.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14154	0.10714	0.08995	2.33470	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	909.551	909.551	0.00529	0.00397	0.83229	911.698
Vendor	0.03196	0.01721	0.43214	0.19469	0.01229	0.00000	0.43077	0.43077	0.00000	0.10462	0.10462	—	945.460	945.460	0.01475	0.11209	1.13715	980.369
Hauling	0.20838	0.02862	2.69277	1.56842	0.02159	0.04318	3.78952	3.83270	0.04318	0.53592	0.57911	—	2,537.29	2,537.29	0.15739	0.41311	1.70748	2,666.04
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14154	0.10582	0.12831	1.91273	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	847.608	847.608	0.00661	0.00397	0.02156	848.978
Vendor	0.03196	0.01721	0.46213	0.20452	0.01229	0.00000	0.43077	0.43077	0.00000	0.10462	0.10462	—	945.673	945.673	0.01475	0.11258	0.02953	979.621
Hauling	0.20734	0.02784	2.85197	1.57180	0.02185	0.04318	3.78952	3.83270	0.04318	0.53592	0.57911	—	2,537.61	2,537.61	0.15713	0.41311	0.04446	2,664.69
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09933	0.07403	0.08902	1.32689	0.00000	0.00000	0.74712	0.74712	0.00000	0.17507	0.17507	—	603.077	603.077	0.00375	0.00281	0.25427	604.263
Vendor	0.02264	0.01219	0.31624	0.14175	0.00871	0.00000	0.30380	0.30380	0.00000	0.07377	0.07377	—	669.836	669.836	0.01045	0.07976	0.34738	694.212
Hauling	0.14725	0.02009	1.98647	1.11201	0.01530	0.03059	2.63964	2.67023	0.03059	0.37481	0.40541	—	1,797.55	1,797.55	0.11150	0.29265	0.52278	1,888.07

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01813	0.01351	0.01625	0.24216	0.00000	0.00000	0.13635	0.13635	0.00000	0.03195	0.03195	—	99.8463	99.8463	0.00062	0.00047	0.04210	100.043
Vendor	0.00413	0.00222	0.05771	0.02587	0.00159	0.00000	0.05544	0.05544	0.00000	0.01346	0.01346	—	110.899	110.899	0.00173	0.01320	0.05751	114.935
Hauling	0.02687	0.00367	0.36253	0.20294	0.00279	0.00558	0.48173	0.48732	0.00558	0.06840	0.07399	—	297.605	297.605	0.01846	0.04845	0.08655	312.591

3.5.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49924	0.46123	3.07502	18.2222	0.03281	0.07340	—	0.07340	0.07172	—	0.07172	—	3,526.00	3,526.00	0.14303	0.02861	—	3,538.10
Onsite truck	0.00408	0.00245	0.05204	0.03198	0.00082	0.00000	0.02859	0.02859	0.00000	0.00694	0.00694	—	65.4117	65.4117	0.00163	0.00783	0.07547	67.8615
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49924	0.46123	3.07502	18.2222	0.03281	0.07340	—	0.07340	0.07172	—	0.07172	—	3,526.00	3,526.00	0.14303	0.02861	—	3,538.10
Onsite truck	0.00408	0.00245	0.05547	0.03524	0.00082	0.00000	0.02859	0.02859	0.00000	0.00694	0.00694	—	65.4856	65.4856	0.00163	0.00799	0.00196	67.9105
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.35367	0.32674	2.17839	12.9089	0.02324	0.05199	—	0.05199	0.05081	—	0.05081	—	2,497.87	2,497.87	0.10132	0.02026	—	2,506.44
Onsite truck	0.00289	0.00173	0.03791	0.02392	0.00058	0.00000	0.02016	0.02016	0.00000	0.00490	0.00490	—	46.3603	46.3603	0.00116	0.00566	0.02305	48.0998
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06454	0.05963	0.39756	2.35587	0.00424	0.00949	—	0.00949	0.00927	—	0.00927	—	413.551	413.551	0.01678	0.00336	—	414.970
Onsite truck	0.00053	0.00032	0.00692	0.00437	0.00011	0.00000	0.00368	0.00368	0.00000	0.00089	0.00089	—	7.67548	7.67548	0.00019	0.00094	0.00382	7.96348

3.5.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14154	0.10714	0.08995	2.33470	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	909.551	909.551	0.00529	0.00397	0.83229	911.698
Vendor	0.03196	0.01721	0.43214	0.19469	0.01229	0.00000	0.43077	0.43077	0.00000	0.10462	0.10462	—	945.460	945.460	0.01475	0.11209	1.13715	980.369
Hauling	0.20838	0.02862	2.69277	1.56842	0.02159	0.04318	3.78952	3.83270	0.04318	0.53592	0.57911	—	2,537.29	2,537.29	0.15739	0.41311	1.70748	2,666.04
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14154	0.10582	0.12831	1.91273	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	847.608	847.608	0.00661	0.00397	0.02156	848.978
Vendor	0.03196	0.01721	0.46213	0.20452	0.01229	0.00000	0.43077	0.43077	0.00000	0.10462	0.10462	—	945.673	945.673	0.01475	0.11258	0.02953	979.621
Hauling	0.20734	0.02784	2.85197	1.57180	0.02185	0.04318	3.78952	3.83270	0.04318	0.53592	0.57911	—	2,537.61	2,537.61	0.15713	0.41311	0.04446	2,664.69

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09933	0.07403	0.08902	1.32689	0.00000	0.00000	0.74712	0.74712	0.00000	0.17507	0.17507	—	603.077	603.077	0.00375	0.00281	0.25427	604.263
Vendor	0.02264	0.01219	0.31624	0.14175	0.00871	0.00000	0.30380	0.30380	0.00000	0.07377	0.07377	—	669.836	669.836	0.01045	0.07976	0.34738	694.212
Hauling	0.14725	0.02009	1.98647	1.11201	0.01530	0.03059	2.63964	2.67023	0.03059	0.37481	0.40541	—	1,797.55	1,797.55	0.11150	0.29265	0.52278	1,888.07
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01813	0.01351	0.01625	0.24216	0.00000	0.00000	0.13635	0.13635	0.00000	0.03195	0.03195	—	99.8463	99.8463	0.00062	0.00047	0.04210	100.043
Vendor	0.00413	0.00222	0.05771	0.02587	0.00159	0.00000	0.05544	0.05544	0.00000	0.01346	0.01346	—	110.899	110.899	0.00173	0.01320	0.05751	114.935
Hauling	0.02687	0.00367	0.36253	0.20294	0.00279	0.00558	0.48173	0.48732	0.00558	0.06840	0.07399	—	297.605	297.605	0.01846	0.04845	0.08655	312.591

3.6. Phase 4 Super Structureng Construction (2039)

3.6.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07839	0.90546	5.98518	12.4285	0.03281	0.19366	—	0.19366	0.17817	—	0.17817	—	3,525.93	3,525.93	0.14303	0.02861	—	3,538.03
Onsite truck	0.00392	0.00245	0.04960	0.03051	0.00082	0.00000	0.02859	0.02859	0.00000	0.00694	0.00694	—	62.6374	62.6374	0.00163	0.00783	0.06626	65.0780
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	1.07839	0.90546	5.98518	12.4285	0.03281	0.19366	—	0.19366	0.17817	—	0.17817	—	3,525.93	3,525.93	0.14303	0.02861	—	3,538.03
Onsite truck	0.00408	0.00245	0.05221	0.03377	0.00082	0.00000	0.02859	0.02859	0.00000	0.00694	0.00694	—	62.7141	62.7141	0.00163	0.00799	0.00171	65.1388
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31022	0.26047	1.72176	3.57532	0.00944	0.05571	—	0.05571	0.05125	—	0.05125	—	1,014.31	1,014.31	0.04114	0.00823	—	1,017.79
Onsite truck	0.00117	0.00066	0.01474	0.00929	0.00023	0.00000	0.00819	0.00819	0.00000	0.00199	0.00199	—	18.0282	18.0282	0.00047	0.00225	0.00822	18.7195
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05662	0.04754	0.31422	0.65250	0.00172	0.01017	—	0.01017	0.00935	—	0.00935	—	167.930	167.930	0.00681	0.00136	—	168.507
Onsite truck	0.00021	0.00012	0.00269	0.00170	0.00004	0.00000	0.00149	0.00149	0.00000	0.00036	0.00036	—	2.98478	2.98478	0.00008	0.00037	0.00136	3.09923

3.6.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13625	0.10185	0.08863	2.26062	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	902.954	902.954	0.00529	0.00397	0.69988	904.969
Vendor	0.03146	0.01721	0.40510	0.18043	0.01229	0.00000	0.43077	0.43077	0.00000	0.10462	0.10462	—	903.924	903.924	0.01475	0.11209	0.99831	938.695
Hauling	0.18652	0.02862	2.62617	1.48231	0.02159	0.04318	3.78952	3.83270	0.04318	0.53592	0.57911	—	2,492.55	2,492.55	0.15713	0.39152	1.48208	2,614.64

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13625	0.10053	0.12699	1.83469	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	841.467	841.467	0.00661	0.00397	0.01811	842.833
Vendor	0.03196	0.01721	0.42280	0.19026	0.01229	0.00000	0.43077	0.43077	0.00000	0.10462	0.10462	—	904.155	904.155	0.01475	0.11258	0.02584	938.100
Hauling	0.18548	0.02784	2.76431	1.48569	0.02185	0.04318	3.78952	3.83270	0.04318	0.53592	0.57911	—	2,492.86	2,492.86	0.15713	0.39152	0.03829	2,613.50
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03843	0.02816	0.02664	0.52588	0.00000	0.00000	0.30339	0.30339	0.00000	0.07109	0.07109	—	243.130	243.130	0.00152	0.00114	0.08679	243.595
Vendor	0.00919	0.00481	0.12078	0.05346	0.00354	0.00000	0.12337	0.12337	0.00000	0.02996	0.02996	—	260.061	260.061	0.00424	0.03225	0.12387	269.900
Hauling	0.05351	0.00816	0.78137	0.42679	0.00621	0.01242	1.07190	1.08432	0.01242	0.15220	0.16463	—	717.069	717.069	0.04520	0.11263	0.18386	751.947
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00701	0.00514	0.00486	0.09597	0.00000	0.00000	0.05537	0.05537	0.00000	0.01297	0.01297	—	40.2530	40.2530	0.00025	0.00019	0.01437	40.3299
Vendor	0.00168	0.00088	0.02204	0.00976	0.00065	0.00000	0.02251	0.02251	0.00000	0.00547	0.00547	—	43.0560	43.0560	0.00070	0.00534	0.02051	44.6850
Hauling	0.00977	0.00149	0.14260	0.07789	0.00113	0.00227	0.19562	0.19789	0.00227	0.02778	0.03004	—	118.719	118.719	0.00748	0.01865	0.03044	124.493

3.6.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49773	0.45996	3.05199	18.2207	0.03281	0.07243	—	0.07243	0.07083	—	0.07083	—	3,525.99	3,525.99	0.14303	0.02861	—	3,538.09

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00392	0.00245	0.04960	0.03051	0.00082	0.00000	0.02859	0.02859	0.00000	0.00694	0.00694	—	62.6374	62.6374	0.00163	0.00783	0.06626	65.0780
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.49773	0.45996	3.05199	18.2207	0.03281	0.07243	—	0.07243	0.07083	—	0.07083	—	3,525.99	3,525.99	0.14303	0.02861	—	3,538.09
Onsite truck	0.00408	0.00245	0.05221	0.03377	0.00082	0.00000	0.02859	0.02859	0.00000	0.00694	0.00694	—	62.7141	62.7141	0.00163	0.00799	0.00171	65.1388
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14318	0.13232	0.87797	5.24156	0.00944	0.02084	—	0.02084	0.02038	—	0.02038	—	1,014.33	1,014.33	0.04115	0.00823	—	1,017.81
Onsite truck	0.00117	0.00066	0.01474	0.00929	0.00023	0.00000	0.00819	0.00819	0.00000	0.00199	0.00199	—	18.0282	18.0282	0.00047	0.00225	0.00822	18.7195
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02613	0.02415	0.16023	0.95658	0.00172	0.00380	—	0.00380	0.00372	—	0.00372	—	167.933	167.933	0.00681	0.00136	—	168.510
Onsite truck	0.00021	0.00012	0.00269	0.00170	0.00004	0.00000	0.00149	0.00149	0.00000	0.00036	0.00036	—	2.98478	2.98478	0.00008	0.00037	0.00136	3.09923

3.6.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13625	0.10185	0.08863	2.26062	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	902.954	902.954	0.00529	0.00397	0.69988	904.969
Vendor	0.03146	0.01721	0.40510	0.18043	0.01229	0.00000	0.43077	0.43077	0.00000	0.10462	0.10462	—	903.924	903.924	0.01475	0.11209	0.99831	938.695
Hauling	0.18652	0.02862	2.62617	1.48231	0.02159	0.04318	3.78952	3.83270	0.04318	0.53592	0.57911	—	2,492.55	2,492.55	0.15713	0.39152	1.48208	2,614.64
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13625	0.10053	0.12699	1.83469	0.00000	0.00000	1.05981	1.05981	0.00000	0.24842	0.24842	—	841.467	841.467	0.00661	0.00397	0.01811	842.833
Vendor	0.03196	0.01721	0.42280	0.19026	0.01229	0.00000	0.43077	0.43077	0.00000	0.10462	0.10462	—	904.155	904.155	0.01475	0.11258	0.02584	938.100
Hauling	0.18548	0.02784	2.76431	1.48569	0.02185	0.04318	3.78952	3.83270	0.04318	0.53592	0.57911	—	2,492.86	2,492.86	0.15713	0.39152	0.03829	2,613.50
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03843	0.02816	0.02664	0.52588	0.00000	0.00000	0.30339	0.30339	0.00000	0.07109	0.07109	—	243.130	243.130	0.00152	0.00114	0.08679	243.595
Vendor	0.00919	0.00481	0.12078	0.05346	0.00354	0.00000	0.12337	0.12337	0.00000	0.02996	0.02996	—	260.061	260.061	0.00424	0.03225	0.12387	269.900
Hauling	0.05351	0.00816	0.78137	0.42679	0.00621	0.01242	1.07190	1.08432	0.01242	0.15220	0.16463	—	717.069	717.069	0.04520	0.11263	0.18386	751.947
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00701	0.00514	0.00486	0.09597	0.00000	0.00000	0.05537	0.05537	0.00000	0.01297	0.01297	—	40.2530	40.2530	0.00025	0.00019	0.01437	40.3299
Vendor	0.00168	0.00088	0.02204	0.00976	0.00065	0.00000	0.02251	0.02251	0.00000	0.00547	0.00547	—	43.0560	43.0560	0.00070	0.00534	0.02051	44.6850
Hauling	0.00977	0.00149	0.14260	0.07789	0.00113	0.00227	0.19562	0.19789	0.00227	0.02778	0.03004	—	118.719	118.719	0.00748	0.01865	0.03044	124.493

3.7. Phase dust control (2037)

3.7.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00459	0.00141	0.05146	0.03624	0.00022	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	29.1663	29.1663	0.00287	0.00467	0.02011	30.6509
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00445	0.00128	0.05437	0.03682	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	29.2190	29.2190	0.00282	0.00467	0.00052	30.6828
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00271	0.00082	0.03171	0.02176	0.00016	0.00026	0.43838	0.43864	0.00026	0.04457	0.04484	—	17.4217	17.4217	0.00171	0.00279	0.00519	18.3009
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00049	0.00015	0.00579	0.00397	0.00003	0.00005	0.08000	0.08005	0.00005	0.00813	0.00818	—	2.88435	2.88435	0.00028	0.00046	0.00086	3.02993

3.7.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.7.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00459	0.00141	0.05146	0.03624	0.00022	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	29.1663	29.1663	0.00287	0.00467	0.02011	30.6509
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00445	0.00128	0.05437	0.03682	0.00026	0.00044	0.74994	0.75038	0.00044	0.07623	0.07667	—	29.2190	29.2190	0.00282	0.00467	0.00052	30.6828
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00271	0.00082	0.03171	0.02176	0.00016	0.00026	0.43838	0.43864	0.00026	0.04457	0.04484	—	17.4217	17.4217	0.00171	0.00279	0.00519	18.3009
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00049	0.00015	0.00579	0.00397	0.00003	0.00005	0.08000	0.08005	0.00005	0.00813	0.00818	—	2.88435	2.88435	0.00028	0.00046	0.00086	3.02993

3.7.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8. Phase dust control (2038)

3.8.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00437	0.00141	0.05057	0.03541	0.00022	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.6450	28.6450	0.00260	0.00467	0.01743	30.1202

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00419	0.00128	0.05348	0.03598	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.6989	28.6989	0.00256	0.00467	0.00045	30.1561
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00305	0.00098	0.03732	0.02545	0.00016	0.00031	0.52446	0.52478	0.00031	0.05334	0.05366	—	20.4769	20.4769	0.00186	0.00334	0.00538	21.5236
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00056	0.00018	0.00681	0.00464	0.00003	0.00006	0.09571	0.09577	0.00006	0.00973	0.00979	—	3.39018	3.39018	0.00031	0.00055	0.00089	3.56347

3.8.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.8.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00437	0.00141	0.05057	0.03541	0.00022	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.6450	28.6450	0.00260	0.00467	0.01743	30.1202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00419	0.00128	0.05348	0.03598	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.6989	28.6989	0.00256	0.00467	0.00045	30.1561
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00305	0.00098	0.03732	0.02545	0.00016	0.00031	0.52446	0.52478	0.00031	0.05334	0.05366	—	20.4769	20.4769	0.00186	0.00334	0.00538	21.5236
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00056	0.00018	0.00681	0.00464	0.00003	0.00006	0.09571	0.09577	0.00006	0.00973	0.00979	—	3.39018	3.39018	0.00031	0.00055	0.00089	3.56347

3.8.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9. Phase dust control (2039)

3.9.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00410	0.00141	0.04960	0.03457	0.00022	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.1749	28.1749	0.00256	0.00445	0.01513	29.5811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00392	0.00128	0.05238	0.03514	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.2301	28.2301	0.00256	0.00445	0.00039	29.6216
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00287	0.00098	0.03650	0.02485	0.00016	0.00031	0.52446	0.52478	0.00031	0.05334	0.05366	—	20.1414	20.1414	0.00183	0.00318	0.00466	21.1397
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00052	0.00018	0.00666	0.00453	0.00003	0.00006	0.09571	0.09577	0.00006	0.00973	0.00979	—	3.33464	3.33464	0.00030	0.00053	0.00077	3.49992

3.9.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.9.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00410	0.00141	0.04960	0.03457	0.00022	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.1749	28.1749	0.00256	0.00445	0.01513	29.5811
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00392	0.00128	0.05238	0.03514	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	28.2301	28.2301	0.00256	0.00445	0.00039	29.6216
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00287	0.00098	0.03650	0.02485	0.00016	0.00031	0.52446	0.52478	0.00031	0.05334	0.05366	—	20.1414	20.1414	0.00183	0.00318	0.00466	21.1397
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00052	0.00018	0.00666	0.00453	0.00003	0.00006	0.09571	0.09577	0.00006	0.00973	0.00979	—	3.33464	3.33464	0.00030	0.00053	0.00077	3.49992

3.9.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.10. Phase dust control (2040)

3.10.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00388	0.00128	0.05150	0.03452	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	27.8113	27.8113	0.00229	0.00445	0.00034	29.1961
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00036	0.00012	0.00452	0.00308	0.00002	0.00004	0.06610	0.06614	0.00004	0.00672	0.00676	—	2.50060	2.50060	0.00021	0.00040	0.00051	2.62573
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00007	0.00002	0.00083	0.00056	< 0.000005	0.00001	0.01206	0.01207	0.00001	0.00123	0.00123	—	0.41400	0.41400	0.00003	0.00007	0.00008	0.43472

3.10.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.10.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00388	0.00128	0.05150	0.03452	0.00026	0.00044	0.74972	0.75016	0.00044	0.07623	0.07667	—	27.8113	27.8113	0.00229	0.00445	0.00034	29.1961
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00036	0.00012	0.00452	0.00308	0.00002	0.00004	0.06610	0.06614	0.00004	0.00672	0.00676	—	2.50060	2.50060	0.00021	0.00040	0.00051	2.62573
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00007	0.00002	0.00083	0.00056	< 0.000005	0.00001	0.01206	0.01207	0.00001	0.00123	0.00123	—	0.41400	0.41400	0.00003	0.00007	0.00008	0.43472

3.10.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.11. Phase 5 Parking Lot Improvements (2039)

3.11.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37418	0.31320	2.10557	3.80836	0.01139	0.04741	—	0.04741	0.04362	—	0.04362	—	1,188.81	1,188.81	0.04822	0.00964	—	1,192.89
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00185	0.00116	0.02346	0.01443	0.00039	0.00000	0.01352	0.01352	0.00000	0.00328	0.00328	—	29.6258	29.6258	0.00077	0.00370	0.03134	30.7802
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37418	0.31320	2.10557	3.80836	0.01139	0.04741	—	0.04741	0.04362	—	0.04362	—	1,188.81	1,188.81	0.04822	0.00964	—	1,192.89
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00193	0.00116	0.02469	0.01597	0.00039	0.00000	0.01352	0.01352	0.00000	0.00328	0.00328	—	29.6621	29.6621	0.00077	0.00378	0.00081	30.8089
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09885	0.08274	0.55627	1.00612	0.00301	0.01253	—	0.01253	0.01152	—	0.01152	—	314.070	314.070	0.01274	0.00255	—	315.148
Demolition	—	—	—	—	—	—	0.05577	0.05577	—	0.00845	0.00845	—	—	—	—	—	—	—
Paving	0.01502	0.01502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00051	0.00029	0.00640	0.00404	0.00010	0.00000	0.00356	0.00356	0.00000	0.00086	0.00086	—	7.83079	7.83079	0.00020	0.00098	0.00357	8.13105
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01804	0.01510	0.10152	0.18362	0.00055	0.00229	—	0.00229	0.00210	—	0.00210	—	51.9979	51.9979	0.00211	0.00042	—	52.1763
Demolition	—	—	—	—	—	—	0.01018	0.01018	—	0.00154	0.00154	—	—	—	—	—	—	—
Paving	0.00274	0.00274	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00009	0.00005	0.00117	0.00074	0.00002	0.00000	0.00065	0.00065	0.00000	0.00016	0.00016	—	1.29648	1.29648	0.00003	0.00016	0.00059	1.34619

3.11.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.06790	0.05908	1.50708	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	601.970	601.970	0.00353	0.00265	0.46659	603.313
Vendor	0.01467	0.00802	0.18893	0.08415	0.00573	0.00000	0.20090	0.20090	0.00000	0.04879	0.04879	—	421.561	421.561	0.00688	0.05228	0.46558	437.777
Hauling	0.04369	0.01144	0.56590	0.35919	0.00352	0.00704	0.85232	0.85935	0.00704	0.11075	0.11778	—	422.675	422.675	0.03137	0.06656	0.24152	443.535
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.06702	0.08466	1.22312	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	560.978	560.978	0.00441	0.00265	0.01207	561.888
Vendor	0.01490	0.00802	0.19718	0.08873	0.00573	0.00000	0.20090	0.20090	0.00000	0.04879	0.04879	—	421.669	421.669	0.00688	0.05251	0.01205	437.499
Hauling	0.04252	0.01056	0.59669	0.36300	0.00381	0.00704	0.85232	0.85935	0.00704	0.11075	0.11778	—	423.040	423.040	0.03137	0.06656	0.00624	443.665
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02353	0.01724	0.01631	0.32197	0.00000	0.00000	0.18575	0.18575	0.00000	0.04352	0.04352	—	148.855	148.855	0.00093	0.00070	0.05314	149.140
Vendor	0.00394	0.00206	0.05173	0.02290	0.00151	0.00000	0.05284	0.05284	0.00000	0.01283	0.01283	—	111.383	111.383	0.00182	0.01381	0.05305	115.597
Hauling	0.01139	0.00294	0.15431	0.09528	0.00093	0.00186	0.22115	0.22301	0.00186	0.02883	0.03069	—	111.705	111.705	0.00829	0.01758	0.02752	117.180
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00429	0.00315	0.00298	0.05876	0.00000	0.00000	0.03390	0.03390	0.00000	0.00794	0.00794	—	24.6447	24.6447	0.00015	0.00012	0.00880	24.6918
Vendor	0.00072	0.00038	0.00944	0.00418	0.00028	0.00000	0.00964	0.00964	0.00000	0.00234	0.00234	—	18.4408	18.4408	0.00030	0.00229	0.00878	19.1385
Hauling	0.00208	0.00054	0.02816	0.01739	0.00017	0.00034	0.04036	0.04070	0.00034	0.00526	0.00560	—	18.4941	18.4941	0.00137	0.00291	0.00456	19.4005

3.11.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19003	0.17481	1.58254	6.58859	0.01140	0.02605	—	0.02605	0.02578	—	0.02578	—	1,190.02	1,190.02	0.04827	0.00965	—	1,194.10
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00185	0.00116	0.02346	0.01443	0.00039	0.00000	0.01352	0.01352	0.00000	0.00328	0.00328	—	29.6258	29.6258	0.00077	0.00370	0.03134	30.7802
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19003	0.17481	1.58254	6.58859	0.01140	0.02605	—	0.02605	0.02578	—	0.02578	—	1,190.02	1,190.02	0.04827	0.00965	—	1,194.10
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00193	0.00116	0.02469	0.01597	0.00039	0.00000	0.01352	0.01352	0.00000	0.00328	0.00328	—	29.6621	29.6621	0.00077	0.00378	0.00081	30.8089
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05020	0.04618	0.41809	1.74063	0.00301	0.00688	—	0.00688	0.00681	—	0.00681	—	314.389	314.389	0.01275	0.00255	—	315.468
Demolition	—	—	—	—	—	—	0.05577	0.05577	—	0.00845	0.00845	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Paving	0.01502	0.01502	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00051	0.00029	0.00640	0.00404	0.00010	0.00000	0.00356	0.00356	0.00000	0.00086	0.00086	—	7.83079	7.83079	0.00020	0.00098	0.00357	8.13105
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00916	0.00843	0.07630	0.31766	0.00055	0.00126	—	0.00126	0.00124	—	0.00124	—	52.0507	52.0507	0.00211	0.00042	—	52.2293
Demolition	—	—	—	—	—	—	0.01018	0.01018	—	0.00154	0.00154	—	—	—	—	—	—	—
Paving	0.00274	0.00274	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00009	0.00005	0.00117	0.00074	0.00002	0.00000	0.00065	0.00065	0.00000	0.00016	0.00016	—	1.29648	1.29648	0.00003	0.00016	0.00059	1.34619

3.11.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.06790	0.05908	1.50708	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	601.970	601.970	0.00353	0.00265	0.46659	603.313
Vendor	0.01467	0.00802	0.18893	0.08415	0.00573	0.00000	0.20090	0.20090	0.00000	0.04879	0.04879	—	421.561	421.561	0.00688	0.05228	0.46558	437.777
Hauling	0.04369	0.01144	0.56590	0.35919	0.00352	0.00704	0.85232	0.85935	0.00704	0.11075	0.11778	—	422.675	422.675	0.03137	0.06656	0.24152	443.535
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.06702	0.08466	1.22312	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	560.978	560.978	0.00441	0.00265	0.01207	561.888

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.01490	0.00802	0.19718	0.08873	0.00573	0.00000	0.20090	0.20090	0.00000	0.04879	0.04879	—	421.669	421.669	0.00688	0.05251	0.01205	437.499
Hauling	0.04252	0.01056	0.59669	0.36300	0.00381	0.00704	0.85232	0.85935	0.00704	0.11075	0.11778	—	423.040	423.040	0.03137	0.06656	0.00624	443.665
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02353	0.01724	0.01631	0.32197	0.00000	0.00000	0.18575	0.18575	0.00000	0.04352	0.04352	—	148.855	148.855	0.00093	0.00070	0.05314	149.140
Vendor	0.00394	0.00206	0.05173	0.02290	0.00151	0.00000	0.05284	0.05284	0.00000	0.01283	0.01283	—	111.383	111.383	0.00182	0.01381	0.05305	115.597
Hauling	0.01139	0.00294	0.15431	0.09528	0.00093	0.00186	0.22115	0.22301	0.00186	0.02883	0.03069	—	111.705	111.705	0.00829	0.01758	0.02752	117.180
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00429	0.00315	0.00298	0.05876	0.00000	0.00000	0.03390	0.03390	0.00000	0.00794	0.00794	—	24.6447	24.6447	0.00015	0.00012	0.00880	24.6918
Vendor	0.00072	0.00038	0.00944	0.00418	0.00028	0.00000	0.00964	0.00964	0.00000	0.00234	0.00234	—	18.4408	18.4408	0.00030	0.00229	0.00878	19.1385
Hauling	0.00208	0.00054	0.02816	0.01739	0.00017	0.00034	0.04036	0.04070	0.00034	0.00526	0.00560	—	18.4941	18.4941	0.00137	0.00291	0.00456	19.4005

3.12. Phase 5 Parking Lot Improvements (2040)

3.12.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.37085	0.31040	2.06491	3.80519	0.01139	0.04601	—	0.04601	0.04233	—	0.04233	—	1,188.82	1,188.82	0.04822	0.00964	—	1,192.90
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00185	0.00100	0.02353	0.01536	0.00039	0.00000	0.01352	0.01352	0.00000	0.00328	0.00328	—	28.4432	28.4432	0.00077	0.00332	0.00071	29.4520
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03338	0.02794	0.18588	0.34254	0.00103	0.00414	—	0.00414	0.00381	—	0.00381	—	107.017	107.017	0.00434	0.00087	—	107.384
Demolition	—	—	—	—	—	—	0.01900	0.01900	—	0.00288	0.00288	—	—	—	—	—	—	—
Paving	0.00512	0.00512	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00017	0.00009	0.00208	0.00135	0.00003	0.00000	0.00121	0.00121	0.00000	0.00029	0.00029	—	2.55850	2.55850	0.00007	0.00030	0.00107	2.65031
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00609	0.00510	0.03392	0.06251	0.00019	0.00076	—	0.00076	0.00070	—	0.00070	—	17.7179	17.7179	0.00072	0.00014	—	17.7787
Demolition	—	—	—	—	—	—	0.00347	0.00347	—	0.00053	0.00053	—	—	—	—	—	—	—
Paving	0.00093	0.00093	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00003	0.00002	0.00038	0.00025	0.00001	0.00000	0.00022	0.00022	0.00000	0.00005	0.00005	—	0.42359	0.42359	0.00001	0.00005	0.00018	0.43879

3.12.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08730	0.06349	0.08466	1.19402	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	557.441	557.441	0.00353	0.00265	0.01012	558.328
Vendor	0.01467	0.00757	0.18457	0.08231	0.00573	0.00000	0.20090	0.20090	0.00000	0.04879	0.04879	—	403.680	403.680	0.00688	0.04654	0.01057	417.733
Hauling	0.04222	0.01056	0.58467	0.35274	0.00381	0.00704	0.85232	0.85935	0.00704	0.11075	0.11778	—	416.455	416.455	0.02756	0.06656	0.00543	436.985
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00778	0.00564	0.00548	0.10717	0.00000	0.00000	0.06329	0.06329	0.00000	0.01483	0.01483	—	50.3989	50.3989	0.00032	0.00024	0.01515	50.4929
Vendor	0.00132	0.00068	0.01649	0.00774	0.00052	0.00000	0.01800	0.01800	0.00000	0.00437	0.00437	—	36.3334	36.3334	0.00062	0.00419	0.01586	37.6133
Hauling	0.00388	0.00100	0.05150	0.03154	0.00032	0.00063	0.07535	0.07599	0.00063	0.00983	0.01046	—	37.4694	37.4694	0.00248	0.00599	0.00815	39.3251
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00142	0.00103	0.00100	0.01956	0.00000	0.00000	0.01155	0.01155	0.00000	0.00271	0.00271	—	8.34411	8.34411	0.00005	0.00004	0.00251	8.35968
Vendor	0.00024	0.00012	0.00301	0.00141	0.00009	0.00000	0.00329	0.00329	0.00000	0.00080	0.00080	—	6.01540	6.01540	0.00010	0.00069	0.00263	6.22731
Hauling	0.00071	0.00018	0.00940	0.00576	0.00006	0.00012	0.01375	0.01387	0.00012	0.00179	0.00191	—	6.20349	6.20349	0.00041	0.00099	0.00135	6.51072

3.12.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19026	0.17500	1.58172	6.58998	0.01140	0.02594	—	0.02594	0.02568	—	0.02568	—	1,190.03	1,190.03	0.04827	0.00965	—	1,194.11
Demolition	—	—	—	—	—	—	0.21110	0.21110	—	0.03197	0.03197	—	—	—	—	—	—	—
Paving	0.05687	0.05687	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00185	0.00100	0.02353	0.01536	0.00039	0.00000	0.01352	0.01352	0.00000	0.00328	0.00328	—	28.4432	28.4432	0.00077	0.00332	0.00071	29.4520
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01713	0.01575	0.14239	0.59323	0.00103	0.00233	—	0.00233	0.00231	—	0.00231	—	107.126	107.126	0.00435	0.00087	—	107.494
Demolition	—	—	—	—	—	—	0.01900	0.01900	—	0.00288	0.00288	—	—	—	—	—	—	—
Paving	0.00512	0.00512	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00017	0.00009	0.00208	0.00135	0.00003	0.00000	0.00121	0.00121	0.00000	0.00029	0.00029	—	2.55850	2.55850	0.00007	0.00030	0.00107	2.65031
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00313	0.00288	0.02599	0.10826	0.00019	0.00043	—	0.00043	0.00042	—	0.00042	—	17.7359	17.7359	0.00072	0.00014	—	17.7968

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Demolition	—	—	—	—	—	—	0.00347	0.00347	—	0.00053	0.00053	—	—	—	—	—	—	—
Paving	0.00093	0.00093	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00003	0.00002	0.00038	0.00025	0.00001	0.00000	0.00022	0.00022	0.00000	0.00005	0.00005	—	0.42359	0.42359	0.00001	0.00005	0.00018	0.43879

3.12.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08730	0.06349	0.08466	1.19402	0.00000	0.00000	0.70654	0.70654	0.00000	0.16561	0.16561	—	557.441	557.441	0.00353	0.00265	0.01012	558.328
Vendor	0.01467	0.00757	0.18457	0.08231	0.00573	0.00000	0.20090	0.20090	0.00000	0.04879	0.04879	—	403.680	403.680	0.00688	0.04654	0.01057	417.733
Hauling	0.04222	0.01056	0.58467	0.35274	0.00381	0.00704	0.85232	0.85935	0.00704	0.11075	0.11778	—	416.455	416.455	0.02756	0.06656	0.00543	436.985
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00778	0.00564	0.00548	0.10717	0.00000	0.00000	0.06329	0.06329	0.00000	0.01483	0.01483	—	50.3989	50.3989	0.00032	0.00024	0.01515	50.4929
Vendor	0.00132	0.00068	0.01649	0.00774	0.00052	0.00000	0.01800	0.01800	0.00000	0.00437	0.00437	—	36.3334	36.3334	0.00062	0.00419	0.01586	37.6133
Hauling	0.00388	0.00100	0.05150	0.03154	0.00032	0.00063	0.07535	0.07599	0.00063	0.00983	0.01046	—	37.4694	37.4694	0.00248	0.00599	0.00815	39.3251
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00142	0.00103	0.00100	0.01956	0.00000	0.00000	0.01155	0.01155	0.00000	0.00271	0.00271	—	8.34411	8.34411	0.00005	0.00004	0.00251	8.35968

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.00024	0.00012	0.00301	0.00141	0.00009	0.00000	0.00329	0.00329	0.00000	0.00080	0.00080	—	6.01540	6.01540	0.00010	0.00069	0.00263	6.22731
Hauling	0.00071	0.00018	0.00940	0.00576	0.00006	0.00012	0.01375	0.01387	0.00012	0.00179	0.00191	—	6.20349	6.20349	0.00041	0.00099	0.00135	6.51072

3.13. Phase 6 MEP, Archt& finishrchitectural Coating (2039)

3.13.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77450	0.64480	7.16860	11.2135	0.01992	0.06341	—	0.06341	0.05834	—	0.05834	—	1,940.36	1,940.36	0.07871	0.01574	—	1,947.02
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00635	0.00397	0.08042	0.04947	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	101.574	101.574	0.00265	0.01270	0.10744	105.532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77450	0.64480	7.16860	11.2135	0.01992	0.06341	—	0.06341	0.05834	—	0.05834	—	1,940.36	1,940.36	0.07871	0.01574	—	1,947.02
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite truck	0.00661	0.00397	0.08466	0.05476	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	101.699	101.699	0.00265	0.01296	0.00278	105.630
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34254	0.28517	3.17046	4.95940	0.00881	0.02804	—	0.02804	0.02580	—	0.02580	—	858.163	858.163	0.03481	0.00696	—	861.108
Architectural Coatings	21.0516	21.0516	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00293	0.00164	0.03674	0.02317	0.00059	0.00000	0.02041	0.02041	0.00000	0.00496	0.00496	—	44.9463	44.9463	0.00117	0.00562	0.02050	46.6697
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06251	0.05204	0.57861	0.90509	0.00161	0.00512	—	0.00512	0.00471	—	0.00471	—	142.079	142.079	0.00576	0.00115	—	142.566
Architectural Coatings	3.84191	3.84191	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00053	0.00030	0.00670	0.00423	0.00011	0.00000	0.00373	0.00373	0.00000	0.00090	0.00090	—	7.44137	7.44137	0.00019	0.00093	0.00339	7.72669

3.13.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15895	0.11883	0.10340	2.63739	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	1,053.45	1,053.45	0.00617	0.00463	0.81653	1,055.80

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.05079	0.02778	0.65398	0.29127	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,459.25	1,459.25	0.02381	0.18096	1.61161	1,515.38
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15895	0.11729	0.14815	2.14047	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	981.711	981.711	0.00772	0.00463	0.02113	983.305
Vendor	0.05159	0.02778	0.68255	0.30715	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,459.62	1,459.62	0.02381	0.18175	0.04171	1,514.42
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06894	0.05051	0.04778	0.94325	0.00000	0.00000	0.54417	0.54417	0.00000	0.12751	0.12751	—	436.090	436.090	0.00273	0.00205	0.15567	436.924
Vendor	0.02282	0.01193	0.29977	0.13268	0.00878	0.00000	0.30619	0.30619	0.00000	0.07435	0.07435	—	645.452	645.452	0.01053	0.08003	0.30744	669.872
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01258	0.00922	0.00872	0.17214	0.00000	0.00000	0.09931	0.09931	0.00000	0.02327	0.02327	—	72.1997	72.1997	0.00045	0.00034	0.02577	72.3378
Vendor	0.00416	0.00218	0.05471	0.02421	0.00160	0.00000	0.05588	0.05588	0.00000	0.01357	0.01357	—	106.862	106.862	0.00174	0.01325	0.05090	110.905
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.13.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.64779	0.57251	5.75340	17.6719	0.02544	0.05361	—	0.05361	0.05229	—	0.05229	—	2,538.36	2,538.36	0.10297	0.02059	—	2,547.07
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00635	0.00397	0.08042	0.04947	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	101.574	101.574	0.00265	0.01270	0.10744	105.532
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64779	0.57251	5.75340	17.6719	0.02544	0.05361	—	0.05361	0.05229	—	0.05229	—	2,538.36	2,538.36	0.10297	0.02059	—	2,547.07
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00661	0.00397	0.08466	0.05476	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	101.699	101.699	0.00265	0.01296	0.00278	105.630
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28650	0.25320	2.54455	7.81573	0.01125	0.02371	—	0.02371	0.02312	—	0.02312	—	1,122.64	1,122.64	0.04554	0.00911	—	1,126.49
Architectural Coatings	21.0516	21.0516	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00293	0.00164	0.03674	0.02317	0.00059	0.00000	0.02041	0.02041	0.00000	0.00496	0.00496	—	44.9463	44.9463	0.00117	0.00562	0.02050	46.6697
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.05229	0.04621	0.46438	1.42637	0.00205	0.00433	—	0.00433	0.00422	—	0.00422	—	185.866	185.866	0.00754	0.00151	—	186.504
Architectural Coatings	3.84191	3.84191	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00053	0.00030	0.00670	0.00423	0.00011	0.00000	0.00373	0.00373	0.00000	0.00090	0.00090	—	7.44137	7.44137	0.00019	0.00093	0.00339	7.72669

3.13.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15895	0.11883	0.10340	2.63739	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	1,053.45	1,053.45	0.00617	0.00463	0.81653	1,055.80
Vendor	0.05079	0.02778	0.65398	0.29127	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,459.25	1,459.25	0.02381	0.18096	1.61161	1,515.38
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15895	0.11729	0.14815	2.14047	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	981.711	981.711	0.00772	0.00463	0.02113	983.305
Vendor	0.05159	0.02778	0.68255	0.30715	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,459.62	1,459.62	0.02381	0.18175	0.04171	1,514.42
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06894	0.05051	0.04778	0.94325	0.00000	0.00000	0.54417	0.54417	0.00000	0.12751	0.12751	—	436.090	436.090	0.00273	0.00205	0.15567	436.924

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Vendor	0.02282	0.01193	0.29977	0.13268	0.00878	0.00000	0.30619	0.30619	0.00000	0.07435	0.07435	—	645.452	645.452	0.01053	0.08003	0.30744	669.872
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01258	0.00922	0.00872	0.17214	0.00000	0.00000	0.09931	0.09931	0.00000	0.02327	0.02327	—	72.1997	72.1997	0.00045	0.00034	0.02577	72.3378
Vendor	0.00416	0.00218	0.05471	0.02421	0.00160	0.00000	0.05588	0.05588	0.00000	0.01357	0.01357	—	106.862	106.862	0.00174	0.01325	0.05090	110.905
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.14. Phase 6 MEP, Archt& finishrchitectural Coating (2040)

3.14.1. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.77347	0.64391	7.14279	11.2125	0.01992	0.06189	—	0.06189	0.05694	—	0.05694	—	1,940.40	1,940.40	0.07871	0.01574	—	1,947.06
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00635	0.00344	0.08069	0.05265	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	97.5196	97.5196	0.00265	0.01138	0.00244	100.978

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06963	0.05796	0.64299	1.00934	0.00179	0.00557	—	0.00557	0.00513	—	0.00513	—	174.674	174.674	0.00709	0.00142	—	175.274
Architectural Coatings	4.28483	4.28483	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00057	0.00031	0.00712	0.00464	0.00012	0.00000	0.00415	0.00415	0.00000	0.00101	0.00101	—	8.77201	8.77201	0.00024	0.00102	0.00366	9.08679
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01271	0.01058	0.11735	0.18421	0.00033	0.00102	—	0.00102	0.00094	—	0.00094	—	28.9193	28.9193	0.00117	0.00023	—	29.0186
Architectural Coatings	0.78198	0.78198	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00010	0.00006	0.00130	0.00085	0.00002	0.00000	0.00076	0.00076	0.00000	0.00018	0.00018	—	1.45231	1.45231	0.00004	0.00017	0.00061	1.50442

3.14.2. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Worker	0.15278	0.11111	0.14815	2.08954	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	975.523	975.523	0.00617	0.00463	0.01771	977.074
Vendor	0.05079	0.02619	0.63890	0.28493	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,397.36	1,397.36	0.02381	0.16111	0.03660	1,446.00
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01361	0.00986	0.00959	0.18754	0.00000	0.00000	0.11076	0.11076	0.00000	0.02595	0.02595	—	88.1980	88.1980	0.00056	0.00042	0.02652	88.3626
Vendor	0.00457	0.00236	0.05708	0.02679	0.00179	0.00000	0.06232	0.06232	0.00000	0.01513	0.01513	—	125.769	125.769	0.00214	0.01450	0.05491	130.200
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00248	0.00180	0.00175	0.03423	0.00000	0.00000	0.02021	0.02021	0.00000	0.00474	0.00474	—	14.6022	14.6022	0.00009	0.00007	0.00439	14.6294
Vendor	0.00083	0.00043	0.01042	0.00489	0.00033	0.00000	0.01137	0.01137	0.00000	0.00276	0.00276	—	20.8225	20.8225	0.00035	0.00240	0.00909	21.5561
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.14.3. Onsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64896	0.57348	5.74932	17.6787	0.02545	0.05306	—	0.05306	0.05178	—	0.05178	—	2,538.40	2,538.40	0.10297	0.02059	—	2,547.12

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Architectural Coatings	47.5989	47.5989	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00635	0.00344	0.08069	0.05265	0.00132	0.00000	0.04636	0.04636	0.00000	0.01126	0.01126	—	97.5196	97.5196	0.00265	0.01138	0.00244	100.978
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05842	0.05162	0.51755	1.59143	0.00229	0.00478	—	0.00478	0.00466	—	0.00466	—	228.506	228.506	0.00927	0.00185	—	229.290
Architectural Coatings	4.28483	4.28483	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00057	0.00031	0.00712	0.00464	0.00012	0.00000	0.00415	0.00415	0.00000	0.00101	0.00101	—	8.77201	8.77201	0.00024	0.00102	0.00366	9.08679
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01066	0.00942	0.09445	0.29044	0.00042	0.00087	—	0.00087	0.00085	—	0.00085	—	37.8318	37.8318	0.00153	0.00031	—	37.9616
Architectural Coatings	0.78198	0.78198	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00010	0.00006	0.00130	0.00085	0.00002	0.00000	0.00076	0.00076	0.00000	0.00018	0.00018	—	1.45231	1.45231	0.00004	0.00017	0.00061	1.50442

3.14.4. Offsite - 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
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15278	0.11111	0.14815	2.08954	0.00000	0.00000	1.23644	1.23644	0.00000	0.28982	0.28982	—	975.523	975.523	0.00617	0.00463	0.01771	977.074
Vendor	0.05079	0.02619	0.63890	0.28493	0.01984	0.00000	0.69541	0.69541	0.00000	0.16889	0.16889	—	1,397.36	1,397.36	0.02381	0.16111	0.03660	1,446.00
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01361	0.00986	0.00959	0.18754	0.00000	0.00000	0.11076	0.11076	0.00000	0.02595	0.02595	—	88.1980	88.1980	0.00056	0.00042	0.02652	88.3626
Vendor	0.00457	0.00236	0.05708	0.02679	0.00179	0.00000	0.06232	0.06232	0.00000	0.01513	0.01513	—	125.769	125.769	0.00214	0.01450	0.05491	130.200
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00248	0.00180	0.00175	0.03423	0.00000	0.00000	0.02021	0.02021	0.00000	0.00474	0.00474	—	14.6022	14.6022	0.00009	0.00007	0.00439	14.6294
Vendor	0.00083	0.00043	0.01042	0.00489	0.00033	0.00000	0.01137	0.01137	0.00000	0.00276	0.00276	—	20.8225	20.8225	0.00035	0.00240	0.00909	21.5561
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Phase 1 Site Prep	Demolition	3/2/2037	4/1/2037	5.00000	23.0000	—
Phase 2 Earthwork	Grading	4/2/2037	6/1/2037	5.00000	43.0000	—
Phase 3 Foundation	Grading	6/2/2037	3/1/2038	5.00000	195.000	—
Phase 4 Super Structureng Construction	Building Construction	1/4/2038	5/27/2039	5.00000	365.000	—
Phase dust control	Building Construction	3/2/2037	2/15/2040	5.00000	773.000	—
Phase 5 Parking Lot Improvements	Paving	8/19/2039	2/15/2040	5.00000	129.000	—
Phase 6 MEP, Archt& finishrchitectural Coating	Architectural Coating	5/20/2039	2/15/2040	5.00000	194.000	—

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
Phase 1 Site Prep	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	5.20000	262.000	0.37000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 Site Prep	Excavators	Diesel	Average	2.00000	5.50000	268.000	0.38000
Phase 1 Site Prep	Other Construction Equipment	Diesel	Average	1.000000	3.00000	806.000	0.42000
Phase 1 Site Prep	Air Compressors	Diesel	Average	1.000000	1.50000	49.0000	0.48000
Phase 1 Site Prep	Cranes	Diesel	Average	1.000000	1.20000	164.000	0.29000
Phase 1 Site Prep	Rollers	Diesel	Average	1.000000	1.20000	131.000	0.38000
Phase 2 Earthwork	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	4.40000	262.000	0.37000
Phase 2 Earthwork	Excavators	Diesel	Average	1.000000	7.30000	476.000	0.38000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Average	1.000000	7.30000	240.000	0.40000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Average	1.000000	4.40000	125.000	0.40000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Average	1.000000	4.40000	354.000	0.40000
Phase 2 Earthwork	Graders	Diesel	Average	1.000000	5.70000	259.000	0.41000
Phase 2 Earthwork	Rollers	Diesel	Average	1.000000	2.90000	131.000	0.38000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	6.20000	262.000	0.37000
Phase 3 Foundation	Air Compressors	Diesel	Average	3.00000	5.60000	49.0000	0.48000
Phase 3 Foundation	Cranes	Diesel	Average	1.000000	6.40000	505.000	0.29000
Phase 3 Foundation	Off-Highway Trucks	Diesel	Average	2.00000	3.60000	505.000	0.38000
Phase 3 Foundation	Graders	Diesel	Average	1.000000	0.50000	259.000	0.41000
Phase 3 Foundation	Excavators	Diesel	Average	1.000000	2.50000	268.000	0.38000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	5.50000	110.000	0.37000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 3 Foundation	Forklifts	Diesel	Average	1.000000	3.70000	130.000	0.20000
Phase 3 Foundation	Bore/Drill Rigs	Diesel	Average	1.000000	3.70000	550.000	0.50000
Phase 3 Foundation	Rollers	Diesel	Average	2.00000	3.20000	131.000	0.38000
Phase 4 Super Structureng Construction	Cranes	Diesel	Average	2.00000	6.30000	505.000	0.29000
Phase 4 Super Structureng Construction	Forklifts	Diesel	Average	2.00000	6.90000	130.000	0.20000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Average	3.00000	5.40000	85.0000	0.31000
Phase 4 Super Structureng Construction	Air Compressors	Diesel	Average	1.000000	2.10000	49.0000	0.48000
Phase 4 Super Structureng Construction	Off-Highway Trucks	Diesel	Average	1.000000	1.60000	505.000	0.38000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Average	1.000000	4.50000	25.0000	0.31000
Phase 5 Parking Lot Improvements	Tractors/Loaders/ Backhoes	Diesel	Average	1.000000	3.80000	262.000	0.37000
Phase 5 Parking Lot Improvements	Excavators	Diesel	Average	1.000000	0.40000	268.000	0.38000
Phase 5 Parking Lot Improvements	Other Construction Equipment	Diesel	Average	1.000000	0.30000	806.000	0.42000
Phase 5 Parking Lot Improvements	Air Compressors	Diesel	Average	1.000000	3.70000	49.0000	0.48000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 5 Parking Lot Improvements	Pavers	Diesel	Average	1.000000	0.20000	225.000	0.42000
Phase 5 Parking Lot Improvements	Graders	Diesel	Average	1.000000	2.30000	259.000	0.41000
Phase 5 Parking Lot Improvements	Forklifts	Diesel	Average	1.000000	0.20000	130.000	0.20000
Phase 5 Parking Lot Improvements	Rollers	Diesel	Average	2.00000	1.50000	131.000	0.38000
Phase 6 MEP, Archt& finishrchitectural Coating	Cranes	Diesel	Average	1.000000	2.10000	505.000	0.29000
Phase 6 MEP, Archt& finishrchitectural Coating	Forklifts	Diesel	Average	1.000000	0.80000	130.000	0.20000
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Average	3.00000	6.50000	85.0000	0.31000
Phase 6 MEP, Archt& finishrchitectural Coating	Air Compressors	Diesel	Average	3.00000	6.10000	49.0000	0.48000
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Average	6.00000	7.00000	25.0000	0.31000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 Site Prep	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	5.20000	262.000	0.37000
Phase 1 Site Prep	Excavators	Diesel	Tier 4 Final	2.00000	5.50000	268.000	0.38000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 1 Site Prep	Other Construction Equipment	Diesel	Tier 4 Final	1.000000	3.00000	806.000	0.42000
Phase 1 Site Prep	Air Compressors	Diesel	Average	1.000000	1.50000	49.0000	0.48000
Phase 1 Site Prep	Cranes	Diesel	Tier 4 Final	1.000000	1.20000	164.000	0.29000
Phase 1 Site Prep	Rollers	Diesel	Tier 4 Final	1.000000	1.20000	131.000	0.38000
Phase 2 Earthwork	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	4.40000	262.000	0.37000
Phase 2 Earthwork	Excavators	Diesel	Tier 4 Final	1.000000	7.30000	476.000	0.38000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	7.30000	240.000	0.40000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	4.40000	125.000	0.40000
Phase 2 Earthwork	Rubber Tired Dozers	Diesel	Tier 4 Final	1.000000	4.40000	354.000	0.40000
Phase 2 Earthwork	Graders	Diesel	Tier 4 Final	1.000000	5.70000	259.000	0.41000
Phase 2 Earthwork	Rollers	Diesel	Tier 4 Final	1.000000	2.90000	131.000	0.38000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	6.20000	262.000	0.37000
Phase 3 Foundation	Air Compressors	Diesel	Average	3.00000	5.60000	49.0000	0.48000
Phase 3 Foundation	Cranes	Diesel	Tier 4 Final	1.000000	6.40000	505.000	0.29000
Phase 3 Foundation	Off-Highway Trucks	Diesel	Average	2.00000	3.60000	505.000	0.38000
Phase 3 Foundation	Graders	Diesel	Tier 4 Final	1.000000	0.50000	259.000	0.41000
Phase 3 Foundation	Excavators	Diesel	Tier 4 Final	1.000000	2.50000	268.000	0.38000
Phase 3 Foundation	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	2.00000	5.50000	110.000	0.37000
Phase 3 Foundation	Forklifts	Diesel	Tier 4 Final	1.000000	3.70000	130.000	0.20000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 3 Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.000000	3.70000	550.000	0.50000
Phase 3 Foundation	Rollers	Diesel	Tier 4 Final	2.00000	3.20000	131.000	0.38000
Phase 4 Super Structureng Construction	Cranes	Diesel	Tier 4 Final	2.00000	6.30000	505.000	0.29000
Phase 4 Super Structureng Construction	Forklifts	Diesel	Tier 4 Final	2.00000	6.90000	130.000	0.20000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Average	2.00000	5.40000	85.0000	0.31000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Tier 4 Final	1.000000	5.40000	85.0000	0.31000
Phase 4 Super Structureng Construction	Air Compressors	Diesel	Average	1.000000	2.10000	49.0000	0.48000
Phase 4 Super Structureng Construction	Off-Highway Trucks	Diesel	Average	1.000000	1.60000	505.000	0.38000
Phase 4 Super Structureng Construction	Aerial Lifts	Diesel	Tier 4 Final	1.000000	4.50000	25.0000	0.31000
Phase 5 Parking Lot Improvements	Tractors/Loaders/ Backhoes	Diesel	Tier 4 Final	1.000000	3.80000	262.000	0.37000
Phase 5 Parking Lot Improvements	Excavators	Diesel	Tier 4 Final	1.000000	0.40000	268.000	0.38000
Phase 5 Parking Lot Improvements	Other Construction Equipment	Diesel	Tier 4 Final	1.000000	0.30000	806.000	0.42000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Phase 5 Parking Lot Improvements	Air Compressors	Diesel	Average	1.000000	3.70000	49.0000	0.48000
Phase 5 Parking Lot Improvements	Pavers	Diesel	Tier 4 Final	1.000000	0.20000	225.000	0.42000
Phase 5 Parking Lot Improvements	Graders	Diesel	Tier 4 Final	1.000000	2.30000	259.000	0.41000
Phase 5 Parking Lot Improvements	Forklifts	Diesel	Tier 4 Final	1.000000	0.20000	130.000	0.20000
Phase 5 Parking Lot Improvements	Rollers	Diesel	Tier 4 Final	2.00000	1.50000	131.000	0.38000
Phase 6 MEP, Archt& finishrchitectural Coating	Cranes	Diesel	Tier 4 Final	1.000000	2.10000	505.000	0.29000
Phase 6 MEP, Archt& finishrchitectural Coating	Forklifts	Diesel	Tier 4 Final	1.000000	0.80000	130.000	0.20000
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Tier 4 Final	6.00000	6.50000	85.0000	0.31000
Phase 6 MEP, Archt& finishrchitectural Coating	Air Compressors	Diesel	Average	3.00000	6.10000	49.0000	0.48000
Phase 6 MEP, Archt& finishrchitectural Coating	Aerial Lifts	Diesel	Tier 4 Final	6.00000	7.00000	25.0000	0.31000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 Site Prep	Worker	50.0000	25.0000	LDA,LDT1,LDT2
Phase 1 Site Prep	Vendor	24.0000	25.0000	MHDT
Phase 1 Site Prep	Hauling	40.9000	12.0000	HHDT
Phase 1 Site Prep	Onsite truck	8.00000	5.00000	MHDT
Phase 2 Earthwork	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 2 Earthwork	Vendor	16.3000	25.0000	MHDT
Phase 2 Earthwork	Hauling	385.800	25.0000	HHDT
Phase 2 Earthwork	Onsite truck	5.40000	5.00000	MHDT
Phase 3 Foundation	Worker	70.0000	25.0000	LDA,LDT1,LDT2
Phase 3 Foundation	Vendor	35.8000	25.0000	MHDT
Phase 3 Foundation	Hauling	43.5000	12.0000	HHDT
Phase 3 Foundation	Onsite truck	11.9000	5.00000	MHDT
Phase 4 Super Structureng Construction	Worker	60.0000	25.0000	LDA,LDT1,LDT2
Phase 4 Super Structureng Construction	Vendor	22.3000	25.0000	MHDT
Phase 4 Super Structureng Construction	Hauling	11.8000	83.0000	HHDT
Phase 4 Super Structureng Construction	Onsite truck	7.40000	5.00000	MHDT
Phase dust control	Worker	0.00000	0.00000	LDA,LDT1,LDT2
Phase dust control	Vendor	0.00000	0.00000	HHDT,MHDT
Phase dust control	Hauling	0.00000	20.0000	HHDT

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase dust control	Onsite truck	2.00000	5.00000	HHDT
Phase 5 Parking Lot Improvements	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 5 Parking Lot Improvements	Vendor	10.4000	25.0000	MHDT
Phase 5 Parking Lot Improvements	Hauling	13.3000	12.0000	HHDT
Phase 5 Parking Lot Improvements	Onsite truck	3.50000	5.00000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	70.0000	25.0000	LDA,LDT1,LDT2
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	36.0000	25.0000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	0.00000	0.00000	HHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	12.0000	5.00000	MHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 1 Site Prep	Worker	50.0000	25.0000	LDA,LDT1,LDT2
Phase 1 Site Prep	Vendor	24.0000	25.0000	MHDT
Phase 1 Site Prep	Hauling	40.9000	12.0000	HHDT
Phase 1 Site Prep	Onsite truck	8.00000	5.00000	MHDT
Phase 2 Earthwork	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 2 Earthwork	Vendor	16.3000	25.0000	MHDT
Phase 2 Earthwork	Hauling	385.800	25.0000	HHDT

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 2 Earthwork	Onsite truck	5.40000	5.00000	MHDT
Phase 3 Foundation	Worker	70.0000	25.0000	LDA,LDT1,LDT2
Phase 3 Foundation	Vendor	35.8000	25.0000	MHDT
Phase 3 Foundation	Hauling	43.5000	12.0000	HHDT
Phase 3 Foundation	Onsite truck	11.9000	5.00000	MHDT
Phase 4 Super Structureng Construction	Worker	60.0000	25.0000	LDA,LDT1,LDT2
Phase 4 Super Structureng Construction	Vendor	22.3000	25.0000	MHDT
Phase 4 Super Structureng Construction	Hauling	11.8000	83.0000	HHDT
Phase 4 Super Structureng Construction	Onsite truck	7.40000	5.00000	MHDT
Phase dust control	Worker	0.00000	0.00000	LDA,LDT1,LDT2
Phase dust control	Vendor	0.00000	0.00000	HHDT,MHDT
Phase dust control	Hauling	0.00000	20.0000	HHDT
Phase dust control	Onsite truck	2.00000	5.00000	HHDT
Phase 5 Parking Lot Improvements	Worker	40.0000	25.0000	LDA,LDT1,LDT2
Phase 5 Parking Lot Improvements	Vendor	10.4000	25.0000	MHDT
Phase 5 Parking Lot Improvements	Hauling	13.3000	12.0000	HHDT
Phase 5 Parking Lot Improvements	Onsite truck	3.50000	5.00000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	70.0000	25.0000	LDA,LDT1,LDT2

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	36.0000	25.0000	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	0.00000	0.00000	HHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	12.0000	5.00000	MHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

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

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Phase 6 MEP, Archt& finishrchitectural Coating	0.00000	0.00000	91,200.0	1,267,000	0.00000

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)
Phase 1 Site Prep	0.00000	0.00000	0.00000	3,697.00	0.00000
Phase 2 Earthwork	66,700.0	66,700.0	5.50000	0.00000	0.00000
Phase 3 Foundation	23,587.0	26,861.0	5.50000	0.00000	0.00000
Phase 5 Parking Lot Improvements	0.00000	0.00000	0.00000	1,882.00	2.80000

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Phase 5 Parking Lot Improvements	Unenclosed Parking Structure	2.80000	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2037	0.00000	203.983	0.03300	0.00400
2038	0.00000	203.983	0.03300	0.00400
2039	0.00000	203.983	0.03300	0.00400

Year	kWh per Year	CO2	CH4	N2O
2040	0.00000	203.983	0.03300	0.00400

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Project information
Construction: Construction Phases	project information
Construction: Off-Road Equipment	Project information
Construction: Dust From Material Movement	Project information
Construction: Demolition	project information
Construction: Trips and VMT	Project information
Construction: On-Road Fugitive Dust	project information
Construction: Architectural Coatings	Project information
Construction: Paving	Project information

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Building Area	sq. ft	435,600	1,175,167
Landscape Area	sq. ft	—	0.00000
Special Landscape Area	sq. ft	—	0.00000

8.4. Construction

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Number per Day	3.00000	2.00000
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Hours Per Day	8.00000	5.20000
Phase 1 Site Prep	Tractors/Loaders/Backhoes	Horsepower	84.0000	262.000
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Number per Day	3.00000	2.00000
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Hours Per Day	8.00000	4.40000
Phase 2 Earthwork	Tractors/Loaders/Backhoes	Horsepower	84.0000	262.000
Phase 3 Foundation	Excavators	Hours Per Day	8.00000	2.50000
Phase 3 Foundation	Excavators	Horsepower	36.0000	268.000
Phase 4 Super Structureng Construction	Cranes	Number per Day	1.000000	2.00000
Phase 4 Super Structureng Construction	Cranes	Hours Per Day	7.00000	6.30000
Phase 4 Super Structureng Construction	Cranes	Horsepower	367.000	505.000

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Phase 4 Super Structureng Construction	Forklifts	Number per Day	3.00000	2.00000
Phase 4 Super Structureng Construction	Forklifts	Hours Per Day	8.00000	6.90000
Phase 4 Super Structureng Construction	Forklifts	Horsepower	82.0000	130.000

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 2 Earthwork	Material Imported	Cubic Yards	—	66,700.0
Phase 2 Earthwork	Material Exported	Cubic Yards	—	66,700.0
Phase 2 Earthwork	Total Acres Graded	acres	58.5875	5.50000
Phase 3 Foundation	Material Imported	Cubic Yards	—	23,587.0
Phase 3 Foundation	Material Exported	Cubic Yards	—	26,861.0
Phase 3 Foundation	Total Acres Graded	acres	6.09375	5.50000

8.4.5. Demolition

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 5 Parking Lot Improvements	Material Demolished	Ton of Debris	473.000	1,882.00

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 1 Site Prep	Worker	One-Way Trips per Day	20.0000	50.0000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 1 Site Prep	Worker	Miles per Trip	11.7000	25.0000
Phase 1 Site Prep	Vendor	One-Way Trips per Day	—	24.0000
Phase 1 Site Prep	Vendor	Miles per Trip	8.40000	25.0000
Phase 1 Site Prep	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 1 Site Prep	Hauling	One-Way Trips per Day	40.2174	40.9000
Phase 1 Site Prep	Hauling	Miles per Trip	20.0000	12.0000
Phase 1 Site Prep	Onsite truck	One-Way Trips per Day	—	8.00000
Phase 1 Site Prep	Onsite truck	Miles per Trip	—	5.00000
Phase 1 Site Prep	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 2 Earthwork	Worker	One-Way Trips per Day	20.0000	40.0000
Phase 2 Earthwork	Worker	Miles per Trip	11.7000	25.0000
Phase 2 Earthwork	Vendor	One-Way Trips per Day	—	16.3000
Phase 2 Earthwork	Vendor	Miles per Trip	8.40000	25.0000
Phase 2 Earthwork	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 2 Earthwork	Hauling	One-Way Trips per Day	387.791	385.800
Phase 2 Earthwork	Hauling	Miles per Trip	20.0000	25.0000
Phase 2 Earthwork	Onsite truck	One-Way Trips per Day	—	5.40000
Phase 2 Earthwork	Onsite truck	Miles per Trip	—	5.00000
Phase 2 Earthwork	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 3 Foundation	Worker	One-Way Trips per Day	40.0000	70.0000
Phase 3 Foundation	Worker	Miles per Trip	11.7000	25.0000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 3 Foundation	Vendor	One-Way Trips per Day	—	35.8000
Phase 3 Foundation	Vendor	Miles per Trip	8.40000	25.0000
Phase 3 Foundation	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 3 Foundation	Hauling	One-Way Trips per Day	32.3385	43.5000
Phase 3 Foundation	Hauling	Miles per Trip	20.0000	12.0000
Phase 3 Foundation	Onsite truck	One-Way Trips per Day	—	11.9000
Phase 3 Foundation	Onsite truck	Miles per Trip	—	5.00000
Phase 3 Foundation	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 4 Super Structureng Construction	Worker	One-Way Trips per Day	493.570	60.0000
Phase 4 Super Structureng Construction	Worker	Miles per Trip	11.7000	25.0000
Phase 4 Super Structureng Construction	Vendor	One-Way Trips per Day	192.610	22.3000
Phase 4 Super Structureng Construction	Vendor	Miles per Trip	8.40000	25.0000
Phase 4 Super Structureng Construction	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 4 Super Structureng Construction	Hauling	One-Way Trips per Day	0.00000	11.8000
Phase 4 Super Structureng Construction	Hauling	Miles per Trip	20.0000	83.0000
Phase 4 Super Structureng Construction	Onsite truck	One-Way Trips per Day	—	7.40000
Phase 4 Super Structureng Construction	Onsite truck	Miles per Trip	—	5.00000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 4 Super Structureng Construction	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase dust control	Worker	One-Way Trips per Day	493.570	0.00000
Phase dust control	Worker	Miles per Trip	11.7000	0.00000
Phase dust control	Vendor	One-Way Trips per Day	192.610	0.00000
Phase dust control	Vendor	Miles per Trip	8.40000	0.00000
Phase 5 Parking Lot Improvements	Worker	One-Way Trips per Day	22.5000	40.0000
Phase 5 Parking Lot Improvements	Worker	Miles per Trip	11.7000	25.0000
Phase 5 Parking Lot Improvements	Vendor	One-Way Trips per Day	—	10.4000
Phase 5 Parking Lot Improvements	Vendor	Miles per Trip	8.40000	25.0000
Phase 5 Parking Lot Improvements	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 5 Parking Lot Improvements	Hauling	One-Way Trips per Day	3.65116	13.3000
Phase 5 Parking Lot Improvements	Hauling	Miles per Trip	20.0000	12.0000
Phase 5 Parking Lot Improvements	Onsite truck	One-Way Trips per Day	—	3.50000
Phase 5 Parking Lot Improvements	Onsite truck	Miles per Trip	—	5.00000
Phase 5 Parking Lot Improvements	Onsite truck	Vehicle Mix	HHDT	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	One-Way Trips per Day	197.428	70.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Worker	Miles per Trip	11.7000	25.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	One-Way Trips per Day	—	36.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	Miles per Trip	8.40000	25.0000

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Phase 6 MEP, Archt& finishrchitectural Coating	Vendor	Vehicle Mix	HHDT,MHDT	MHDT
Phase 6 MEP, Archt& finishrchitectural Coating	Hauling	Miles per Trip	20.0000	0.00000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	One-Way Trips per Day	—	12.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	Miles per Trip	—	5.00000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite truck	Vehicle Mix	HHDT	MHDT

8.4.7. On-Road Fugitive Dust

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 1 Site Prep	Hauling Trip Paved	%	100.0000	99.0000
Phase 1 Site Prep	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 2 Earthwork	Hauling Trip Paved	%	100.0000	99.6000
Phase 2 Earthwork	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 3 Foundation	Hauling Trip Paved	%	100.0000	99.3000
Phase 3 Foundation	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 4 Super Structureng Construction	Hauling Trip Paved	%	100.0000	99.8000
Phase 4 Super Structureng Construction	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase dust control	Onsite Truck Trip Paved	%	0.00000	80.0000
Phase 5 Parking Lot Improvements	Hauling Trip Paved	%	100.0000	99.7000

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 5 Parking Lot Improvements	Onsite Truck Trip Paved	%	0.00000	100.0000
Phase 6 MEP, Archt& finishrchitectural Coating	Onsite Truck Trip Paved	%	0.00000	100.0000

8.4.8. Architectural Coatings

Phase Name	Model Parameter	Units	Default Value	New Value
Phase 6 MEP, Archt& finishrchitectural Coating	Non-Residential Interior Area	sq ft	19,602.0	91,200.0
Phase 6 MEP, Archt& finishrchitectural Coating	Non-Residential Exterior Area	sq ft	2,178.00	1,267,000
Phase 6 MEP, Archt& finishrchitectural Coating	Parking Area	sq ft	26,136.0	0.00000

8.4.9. Paving

Phase Name	Land Use	Model Parameter	Units	Default Value	New Value
Phase 5 Parking Lot Improvements	Unenclosed Parking Structure	Area Paved	acres	10.00000	2.80000

Appendix B3. CT-EMFAC Output Files

Input Parameters

Project	Larkspur				
Scenario	**2050 No Build**	**2050 Alt1**	**2050 Alt2**	**2050 Alt3**	
Area	Marin (SF)	Marin (SF)	Marin (SF)	Marin (SF)	
Year	2050	2050	2050	2050	
Season	Annual	Annual	Annual	Annual	
# of Links	3	3	3	3	

Silt Loading Factor	CARB	
Freeway	0.015	g/m2
Major/Collector	0.032	g/m2
Local Urban	0.32	g/m2
Local Rural	0.32	g/m2
Precipitation Correction	CARB	
P	73	days
N	365	days
Number of hours	24	
Number of time periods	1	
Input File	C:\Users\hzhuang\OneDrive - Jacobs\Projects\Larkspur Ferry Terminal\EMFAC\Larkspur_travel_activity - Batch_Mode_ 2050.xlsx	

Total Emissions

General	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	Unit
$PM_{2.5}$	8.501E-03	6.477E-03	5.618E-03	5.719E-03	tons/day
PM_{10}	4.983E-02	3.796E-02	3.286E-02	3.348E-02	tons/day
NO_x	8.439E-03	6.430E-03	5.545E-03	5.658E-03	tons/day
CO	1.739E-01	1.325E-01	1.134E-01	1.160E-01	tons/day
HC	9.287E-03	7.076E-03	6.087E-03	6.217E-03	tons/day
TOG	9.963E-03	7.591E-03	6.535E-03	6.673E-03	tons/day
ROG	9.195E-03	7.006E-03	6.033E-03	6.160E-03	tons/day

MSATs					
1,3-Butadiene	1.110E-05	8.454E-06	7.261E-06	7.421E-06	tons/day
Acetaldehyde	2.861E-05	2.180E-05	2.007E-05	1.997E-05	tons/day
Acrolein	1.268E-06	9.664E-07	8.256E-07	8.457E-07	tons/day
Benzene	2.122E-04	1.617E-04	1.390E-04	1.420E-04	tons/day
Diesel PM	7.523E-06	5.732E-06	8.556E-06	7.260E-06	tons/day
Ethylbenzene	1.013E-04	7.718E-05	6.629E-05	6.776E-05	tons/day
Formaldehyde	7.213E-05	5.495E-05	4.985E-05	4.987E-05	tons/day
Naphthalene	9.190E-06	7.002E-06	6.000E-06	6.138E-06	tons/day
POM	2.194E-06	1.672E-06	1.455E-06	1.479E-06	tons/day
DEOG	1.954E-05	1.489E-05	3.236E-05	2.507E-05	tons/day

GHGs					
CO_2	8.657E+01	6.596E+01	5.665E+01	5.790E+01	tons/day
N_2O	1.277E-03	9.729E-04	8.533E-04	8.649E-04	tons/day
CH_4	6.485E-04	4.941E-04	4.230E-04	4.329E-04	tons/day
BC	3.790E-05	2.888E-05	2.567E-05	2.588E-05	tons/day
HFC	2.569E-06	1.958E-06	1.783E-06	1.781E-06	tons/day

CO2e					
CO_2	7.854E+01	5.984E+01	5.139E+01	5.253E+01	metric tons/day CO2e
N_2O	3.452E-01	2.630E-01	2.307E-01	2.338E-01	metric tons/day CO2e
CH_4	1.471E-02	1.121E-02	9.594E-03	9.818E-03	metric tons/day CO2e
BC	1.582E-02	1.205E-02	1.071E-02	1.080E-02	metric tons/day CO2e
HFC	3.333E-03	2.540E-03	2.313E-03	2.310E-03	metric tons/day CO2e
Total CO2e	7.892E+01	6.013E+01	5.165E+01	5.279E+01	metric tons/day CO2e

PM by Process					
$PM_{2.5}$ Running Exhaust	1.501E-04	1.144E-04	1.015E-04	1.024E-04	tons/day
$PM_{2.5}$ Tire Wear	7.966E-04	6.069E-04	5.214E-04	5.329E-04	tons/day
$PM_{2.5}$ Brake Wear	1.020E-03	7.771E-04	6.917E-04	6.970E-04	tons/day
$PM_{2.5}$ Road Dust	6.534E-03	4.978E-03	4.303E-03	4.387E-03	tons/day
PM_{10} Running Exhaust	1.629E-04	1.241E-04	1.100E-04	1.110E-04	tons/day
PM_{10} Tire Wear	3.186E-03	2.428E-03	2.086E-03	2.131E-03	tons/day
PM_{10} Brake Wear	2.914E-03	2.220E-03	1.976E-03	1.992E-03	tons/day
PM_{10} Road Dust	4.356E-02	3.319E-02	2.869E-02	2.925E-02	tons/day

General	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	Unit
$PM_{2.5}$	1.700E+01	1.295E+01	1.124E+01	1.144E+01	pounds/day
PM_{10}	9.965E+01	7.592E+01	6.572E+01	6.696E+01	pounds/day
NO_x	1.688E+01	1.286E+01	1.109E+01	1.132E+01	pounds/day
CO	3.478E+02	2.650E+02	2.267E+02	2.321E+02	pounds/day
HC	1.857E+01	1.415E+01	1.217E+01	1.243E+01	pounds/day
TOG	1.993E+01	1.518E+01	1.307E+01	1.335E+01	pounds/day
ROG	1.839E+01	1.401E+01	1.207E+01	1.232E+01	pounds/day

MSATs					
1,3-Butadiene	2.219E-02	1.691E-02	1.452E-02	1.484E-02	pounds/day
Acetaldehyde	5.723E-02	4.360E-02	4.015E-02	3.993E-02	pounds/day
Acrolein	2.537E-03	1.933E-03	1.651E-03	1.691E-03	pounds/day
Benzene	4.244E-01	3.234E-01	2.780E-01	2.840E-01	pounds/day
Diesel PM	1.505E-02	1.146E-02	1.711E-02	1.452E-02	pounds/day
Ethylbenzene	2.026E-01	1.544E-01	1.326E-01	1.355E-01	pounds/day
Formaldehyde	1.443E-01	1.099E-01	9.969E-02	9.973E-02	pounds/day
Naphthalene	1.838E-02	1.400E-02	1.200E-02	1.228E-02	pounds/day
POM	4.388E-03	3.343E-03	2.910E-03	2.959E-03	pounds/day
DEOG	3.909E-02	2.978E-02	6.472E-02	5.015E-02	pounds/day

GHGs					
CO_2	1.731E+05	1.319E+05	1.133E+05	1.158E+05	pounds/day
N_2O	2.554E+00	1.946E+00	1.707E+00	1.730E+00	pounds/day
CH_4	1.297E+00	9.882E-01	8.460E-01	8.658E-01	pounds/day
BC	7.580E-02	5.775E-02	5.134E-02	5.176E-02	pounds/day
HFC	5.139E-03	3.915E-03	3.565E-03	3.561E-03	pounds/day

PM by Process					
$PM_{2.5}$ Running Exhaust	3.002E-01	2.287E-01	2.030E-01	2.048E-01	pounds/day
$PM_{2.5}$ Tire Wear	1.593E+00	1.214E+00	1.043E+00	1.066E+00	pounds/day
$PM_{2.5}$ Brake Wear	2.040E+00	1.554E+00	1.383E+00	1.394E+00	pounds/day
$PM_{2.5}$ Road Dust	1.307E+01	9.957E+00	8.606E+00	8.774E+00	pounds/day
PM_{10} Running Exhaust	3.258E-01	2.482E-01	2.200E-01	2.221E-01	pounds/day
PM_{10} Tire Wear	6.373E+00	4.855E+00	4.171E+00	4.263E+00	pounds/day
PM_{10} Brake Wear	5.829E+00	4.441E+00	3.952E+00	3.983E+00	pounds/day
PM_{10} Road Dust	8.712E+01	6.638E+01	5.738E+01	5.849E+01	pounds/day

General	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3
$PM_{2.5}$	7.712E+03	5.876E+03	5.096E+03	5.189E+03
PM_{10}	4.520E+04	3.444E+04	2.981E+04	3.037E+04
NO_x	7.656E+03	5.833E+03	5.030E+03	5.133E+03
CO	1.578E+05	1.202E+05	1.028E+05	1.053E+05
HC	8.425E+03	6.419E+03	5.522E+03	5.640E+03
TOG	9.038E+03	6.886E+03	5.928E+03	6.053E+03
ROG	8.342E+03	6.356E+03	5.473E+03	5.588E+03

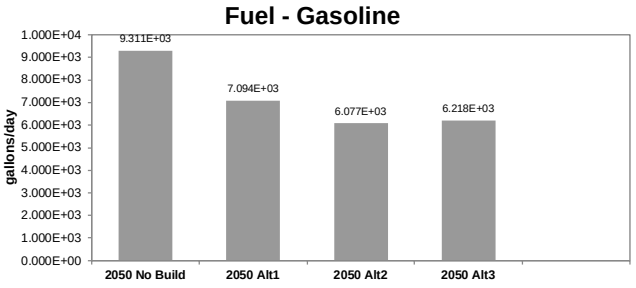
MSATs				
1,3-Butadiene	1.007E+01	7.669E+00	6.587E+00	6.732E+00
Acetaldehyde	2.596E+01	1.978E+01	1.821E+01	1.811E+01
Acrolein	1.151E+00	8.767E-01	7.490E-01	7.672E-01
Benzene	1.925E+02	1.467E+02	1.261E+02	1.288E+02
Diesel PM	6.825E+00	5.200E+00	7.762E+00	6.586E+00
Ethylbenzene	9.190E+01	7.002E+01	6.014E+01	6.147E+01
Formaldehyde	6.543E+01	4.985E+01	4.522E+01	4.524E+01
Naphthalene	8.337E+00	6.352E+00	5.443E+00	5.569E+00
POM	1.990E+00	1.517E+00	1.320E+00	1.342E+00
DEOG	1.773E+01	1.351E+01	2.935E+01	2.275E+01

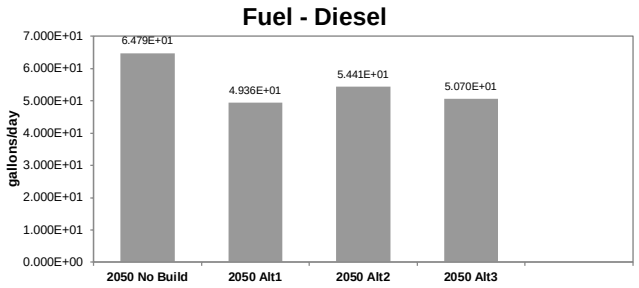
GHGs				
CO_2	7.854E+07	5.984E+07	5.139E+07	5.253E+07
N_2O	1.158E+03	8.826E+02	7.741E+02	7.847E+02
CH_4	5.883E+02	4.482E+02	3.837E+02	3.927E+02
BC	3.438E+01	2.620E+01	2.329E+01	2.348E+01
HFC	2.331E+00	1.776E+00	1.617E+00	1.615E+00

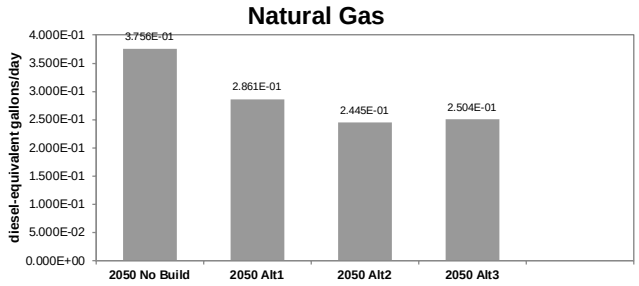
PM by Process				
$PM_{2.5}$ Running Exhaust	1.362E+02	1.038E+02	9.207E+01	9.290E+01
$PM_{2.5}$ Tire Wear	7.226E+02	5.506E+02	4.730E+02	4.834E+02
$PM_{2.5}$ Brake Wear	9.253E+02	7.050E+02	6.275E+02	6.323E+02
$PM_{2.5}$ Road Dust	5.928E+03	4.516E+03	3.904E+03	3.980E+03
PM_{10} Running Exhaust	1.478E+02	1.126E+02	9.980E+01	1.007E+02
PM_{10} Tire Wear	2.891E+03	2.202E+03	1.892E+03	1.934E+03
PM_{10} Brake Wear	2.644E+03	2.014E+03	1.793E+03	1.807E+03
PM_{10} Road Dust	3.952E+04	3.011E+04	2.603E+04	2.653E+04

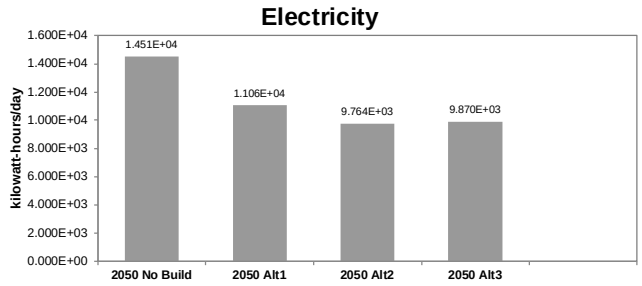
Total Consumption

Fuel/Electricity	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	Unit
Gasoline	9.311E+03	7.094E+03	6.077E+03	6.218E+03	gallons/day
Diesel	6.479E+01	4.936E+01	5.441E+01	5.070E+01	gallons/day
Natural Gas	3.756E-01	2.861E-01	2.445E-01	2.504E-01	diesel-equivalent gallons/day
Electricity	1.451E+04	1.106E+04	9.764E+03	9.870E+03	kilowatt-hours/day









PM2.5

			Emissions by Process (grams/day)					Emissions by Process (pounds/day)				% of Emissions by Process				% of Emissions by Vehicle Type		
Scenario	Link ID	Total (grams/day)	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Total (pounds/day)	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Non-Truck	Truck	Road Type
2050 No Build	1	1948.4	67.6	383.0	221.1	1276.7	4.3	0.1	0.8	0.5	2.8	3	20	11	66	100	0	Major/Collector
2050 No Build	2	2854.6	52.3	289.1	593.2	1920.0	6.3	0.1	0.6	1.3	4.2	2	10	21	67	100	0	Local Urban
2050 No Build	3	2908.9	16.2	50.6	110.9	2731.1	6.4	0.0	0.1	0.2	6.0	1	2	4	94	100	0	Local Urban
2050 Alt1	1	1484.5	51.5	291.8	168.5	972.7	3.3	0.1	0.6	0.4	2.1	3	20	11	66	100	0	Major/Collector
2050 Alt1	2	2174.9	39.9	220.2	452.0	1462.8	4.8	0.1	0.5	1.0	3.2	2	10	21	67	100	0	Local Urban
2050 Alt1	3	2216.3	12.4	38.5	84.5	2080.8	4.9	0.0	0.1	0.2	4.6	1	2	4	94	100	0	Local Urban
2050 Alt2	1	1294.3	45.5	250.7	157.3	840.8	2.9	0.1	0.6	0.3	1.9	4	19	12	65	98	2	Major/Collector
2050 Alt2	2	1885.4	35.5	189.2	396.2	1264.4	4.2	0.1	0.4	0.9	2.8	2	10	21	67	98	2	Local Urban
2050 Alt2	3	1916.7	11.0	33.1	74.0	1798.6	4.2	0.0	0.1	0.2	4.0	1	2	4	94	99	1	Local Urban
2050 Alt3	1	1315.0	46.0	256.2	155.6	857.1	2.9	0.1	0.6	0.3	1.9	3	19	12	65	98	2	Major/Collector
2050 Alt3	2	1919.9	35.8	193.4	401.7	1289.1	4.2	0.1	0.4	0.9	2.8	2	10	21	67	99	1	Local Urban
2050 Alt3	3	1953.6	11.1	33.8	75.0	1833.6	4.3	0.0	0.1	0.2	4.0	1	2	4	94	99	1	Local Urban

PM10

			Emissions by Process (grams/day)					Emissions by Process (pounds/day)				% of Emissions by Process				% of Emissions by Vehicle Type		
Scenario	Link ID	Total (grams/day)	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Total (pounds/day)	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Non-Truck	Truck	Road Type
2050 No Build	1	10748.3	73.4	1532.0	631.8	8511.1	23.7	0.2	3.4	1.4	18.8	1	14	6	79	100	0	Major/Collector
2050 No Build	2	15708.0	56.8	1156.2	1694.9	12800.0	34.6	0.1	2.5	3.7	28.2	0	7	11	81	100	0	Local Urban
2050 No Build	3	18744.4	17.6	202.3	317.0	18207.4	41.3	0.0	0.4	0.7	40.1	0	1	2	97	100	0	Local Urban
2050 Alt1	1	8189.0	55.9	1167.2	481.4	6484.5	18.1	0.1	2.6	1.1	14.3	1	14	6	79	100	0	Major/Collector
2050 Alt1	2	11967.8	43.3	880.9	1291.4	9752.2	26.4	0.1	1.9	2.8	21.5	0	7	11	81	100	0	Local Urban
2050 Alt1	3	14281.2	13.4	154.2	241.5	13872.1	31.5	0.0	0.3	0.5	30.6	0	1	2	97	100	0	Local Urban
2050 Alt2	1	7106.6	49.4	1002.8	449.4	5605.0	15.7	0.1	2.2	1.0	12.4	1	14	6	79	98	2	Major/Collector
2050 Alt2	2	10356.9	38.5	756.8	1132.0	8429.6	22.8	0.1	1.7	2.5	18.6	0	7	11	81	98	2	Local Urban
2050 Alt2	3	12346.4	11.9	132.4	211.4	11990.7	27.2	0.0	0.3	0.5	26.4	0	1	2	97	99	1	Local Urban
2050 Alt3	1	7233.6	49.9	1024.8	444.6	5714.3	15.9	0.1	2.3	1.0	12.6	1	14	6	79	99	1	Major/Collector
2050 Alt3	2	10553.8	38.8	773.4	1147.6	8593.9	23.3	0.1	1.7	2.5	18.9	0	7	11	81	99	1	Local Urban
2050 Alt3	3	12586.1	12.0	135.4	214.4	12224.3	27.7	0.0	0.3	0.5	27.0	0	1	2	97	99	1	Local Urban

NOx

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	4.349E-03	3.314E-03	2.857E-03	2.916E-03	
2	3.367E-03	2.565E-03	2.211E-03	2.257E-03	
3	7.230E-04	5.509E-04	4.763E-04	4.855E-04	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	8.698E+00	6.627E+00	5.715E+00	5.832E+00	
2	6.734E+00	5.131E+00	4.423E+00	4.514E+00	
3	1.446E+00	1.102E+00	9.525E-01	9.710E-01	

CO

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	7.825E-02	5.962E-02	5.103E-02	5.223E-02	
2	7.822E-02	5.960E-02	5.096E-02	5.218E-02	
3	1.744E-02	1.329E-02	1.137E-02	1.164E-02	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.565E+02	1.192E+02	1.021E+02	1.045E+02	
2	1.564E+02	1.192E+02	1.019E+02	1.044E+02	
3	3.488E+01	2.658E+01	2.274E+01	2.328E+01	

HC

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	3.969E-03	3.024E-03	2.600E-03	2.656E-03	
2	4.099E-03	3.123E-03	2.688E-03	2.745E-03	
3	1.219E-03	9.288E-04	7.992E-04	8.163E-04	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	7.939E+00	6.049E+00	5.200E+00	5.313E+00	
2	8.197E+00	6.245E+00	5.376E+00	5.490E+00	
3	2.438E+00	1.858E+00	1.598E+00	1.633E+00	

TOG

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	4.260E-03	3.246E-03	2.792E-03	2.852E-03	
2	4.395E-03	3.349E-03	2.885E-03	2.945E-03	
3	1.308E-03	9.962E-04	8.579E-04	8.759E-04	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	8.520E+00	6.491E+00	5.584E+00	5.704E+00	
2	8.790E+00	6.697E+00	5.770E+00	5.890E+00	
3	2.615E+00	1.992E+00	1.716E+00	1.752E+00	

ROG

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	3.883E-03	2.959E-03	2.546E-03	2.600E-03	
2	4.098E-03	3.122E-03	2.690E-03	2.746E-03	
3	1.214E-03	9.250E-04	7.967E-04	8.134E-04	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	7.766E+00	5.917E+00	5.091E+00	5.200E+00	
2	8.196E+00	6.245E+00	5.381E+00	5.492E+00	
3	2.428E+00	1.850E+00	1.593E+00	1.627E+00	

1,3-Butadiene

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	5.479E-06	4.174E-06	3.581E-06	3.662E-06	
2	4.279E-06	3.260E-06	2.804E-06	2.864E-06	
3	1.338E-06	1.020E-06	8.760E-07	8.952E-07	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.096E-02	8.348E-03	7.162E-03	7.323E-03	
2	8.559E-03	6.521E-03	5.608E-03	5.729E-03	
3	2.677E-03	2.039E-03	1.752E-03	1.790E-03	

Acetaldehyde

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.397E-05	1.065E-05	9.663E-06	9.665E-06	
2	1.116E-05	8.499E-06	7.959E-06	7.866E-06	
3	3.484E-06	2.655E-06	2.450E-06	2.435E-06	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	2.795E-02	2.129E-02	1.933E-02	1.933E-02	
2	2.231E-02	1.700E-02	1.592E-02	1.573E-02	
3	6.969E-03	5.310E-03	4.901E-03	4.870E-03	

Acrolein

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	6.260E-07	4.770E-07	4.075E-07	4.174E-07	
2	4.888E-07	3.724E-07	3.182E-07	3.259E-07	
3	1.536E-07	1.170E-07	9.995E-08	1.024E-07	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.252E-03	9.539E-04	8.149E-04	8.347E-04	
2	9.777E-04	7.449E-04	6.364E-04	6.518E-04	
3	3.071E-04	2.340E-04	1.999E-04	2.048E-04	

Benzene

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	9.538E-05	7.267E-05	6.242E-05	6.380E-05	
2	8.979E-05	6.841E-05	5.885E-05	6.011E-05	
3	2.705E-05	2.061E-05	1.772E-05	1.810E-05	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.908E-01	1.453E-01	1.248E-01	1.276E-01	
2	1.796E-01	1.368E-01	1.177E-01	1.202E-01	
3	5.410E-02	4.121E-02	3.544E-02	3.621E-02	

Diesel PM

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	4.209E-06	3.207E-06	4.339E-06	3.787E-06	
2	2.712E-06	2.067E-06	3.383E-06	2.800E-06	
3	6.022E-07	4.588E-07	8.348E-07	6.731E-07	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	8.418E-03	6.413E-03	8.678E-03	7.574E-03	
2	5.425E-03	4.133E-03	6.765E-03	5.600E-03	
3	1.204E-03	9.177E-04	1.670E-03	1.346E-03	

Ethylbenzene

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	4.392E-05	3.347E-05	2.873E-05	2.937E-05	
2	4.421E-05	3.368E-05	2.894E-05	2.957E-05	
3	1.317E-05	1.004E-05	8.622E-06	8.812E-06	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	8.785E-02	6.693E-02	5.746E-02	5.874E-02	
2	8.841E-02	6.736E-02	5.788E-02	5.915E-02	
3	2.635E-02	2.007E-02	1.724E-02	1.762E-02	

Formaldehyde

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	3.531E-05	2.690E-05	2.412E-05	2.424E-05	
2	2.805E-05	2.137E-05	1.966E-05	1.956E-05	
3	8.764E-06	6.677E-06	6.070E-06	6.067E-06	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	7.062E-02	5.381E-02	4.824E-02	4.848E-02	
2	5.611E-02	4.275E-02	3.932E-02	3.912E-02	
3	1.753E-02	1.335E-02	1.214E-02	1.213E-02	

Naphthalene

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	4.544E-06	3.462E-06	2.965E-06	3.034E-06	
2	3.543E-06	2.699E-06	2.315E-06	2.367E-06	
3	1.103E-06	8.407E-07	7.208E-07	7.372E-07	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	9.088E-03	6.924E-03	5.929E-03	6.067E-03	
2	7.086E-03	5.399E-03	4.630E-03	4.735E-03	
3	2.207E-03	1.681E-03	1.442E-03	1.474E-03	

POM

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.080E-06	8.231E-07	7.141E-07	7.269E-07	
2	8.473E-07	6.455E-07	5.643E-07	5.728E-07	
3	2.665E-07	2.030E-07	1.769E-07	1.798E-07	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	2.161E-03	1.646E-03	1.428E-03	1.454E-03	
2	1.695E-03	1.291E-03	1.129E-03	1.146E-03	
3	5.330E-04	4.061E-04	3.537E-04	3.595E-04	

DEOG

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	7.797E-06	5.940E-06	1.277E-05	9.916E-06	
2	8.912E-06	6.790E-06	1.528E-05	1.176E-05	
3	2.834E-06	2.159E-06	4.311E-06	3.402E-06	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.559E-02	1.188E-02	2.554E-02	1.983E-02	
2	1.782E-02	1.358E-02	3.056E-02	2.351E-02	
3	5.669E-03	4.319E-03	8.622E-03	6.804E-03	

CO2

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	4.737E+01	3.609E+01	3.098E+01	3.167E+01	
2	3.214E+01	2.449E+01	2.104E+01	2.150E+01	
3	7.068E+00	5.385E+00	4.632E+00	4.732E+00	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	9.473E+04	7.218E+04	6.195E+04	6.334E+04	
2	6.428E+04	4.897E+04	4.208E+04	4.300E+04	
3	1.414E+04	1.077E+04	9.265E+03	9.464E+03	

N2O

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	6.667E-04	5.080E-04	4.447E-04	4.511E-04	
2	5.046E-04	3.844E-04	3.375E-04	3.420E-04	
3	1.057E-04	8.055E-05	7.107E-05	7.187E-05	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.333E+00	1.016E+00	8.895E-01	9.022E-01	
2	1.009E+00	7.689E-01	6.750E-01	6.839E-01	
3	2.115E-01	1.611E-01	1.421E-01	1.437E-01	

CH4

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	3.221E-04	2.454E-04	2.100E-04	2.150E-04	
2	2.528E-04	1.926E-04	1.650E-04	1.688E-04	
3	7.357E-05	5.606E-05	4.802E-05	4.913E-05	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	6.443E-01	4.909E-01	4.200E-01	4.299E-01	
2	5.056E-01	3.852E-01	3.300E-01	3.376E-01	
3	1.471E-01	1.121E-01	9.604E-02	9.827E-02	

BC

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.895E-05	1.444E-05	1.278E-05	1.291E-05	
2	1.451E-05	1.105E-05	9.878E-06	9.939E-06	
3	4.440E-06	3.383E-06	3.009E-06	3.033E-06	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	3.791E-02	2.888E-02	2.556E-02	2.582E-02	
2	2.901E-02	2.210E-02	1.976E-02	1.988E-02	
3	8.881E-03	6.766E-03	6.018E-03	6.066E-03	

HFC

(tons/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.030E-06	7.847E-07	7.146E-07	7.138E-07	
2	1.192E-06	9.081E-07	8.269E-07	8.260E-07	
3	3.476E-07	2.649E-07	2.412E-07	2.409E-07	

(pounds/day)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	2.060E-03	1.569E-03	1.429E-03	1.428E-03	
2	2.384E-03	1.816E-03	1.654E-03	1.652E-03	
3	6.952E-04	5.297E-04	4.824E-04	4.818E-04	

Consumption - Gasoline (gallons/day)

(units)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	5.133E+03	3.911E+03	3.349E+03	3.427E+03	
2	3.437E+03	2.619E+03	2.245E+03	2.296E+03	
3	7.404E+02	5.641E+02	4.838E+02	4.948E+02	

Link ID					

Consumption - Diesel (gallons/day)

(units)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	3.437E+01	2.619E+01	2.831E+01	2.656E+01	
2	2.487E+01	1.895E+01	2.123E+01	1.967E+01	
3	5.542E+00	4.223E+00	4.869E+00	4.468E+00	

Link ID					

Consumption - Natural Gas (diesel-equivalent gallons/day)

(units)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	1.608E-01	1.225E-01	1.046E-01	1.072E-01	
2	1.668E-01	1.271E-01	1.086E-01	1.112E-01	
3	4.797E-02	3.655E-02	3.122E-02	3.198E-02	

Link ID					

Consumption - Electricity (kilowatt-hours/day)

(units)

Link ID	2050 No Build	2050 Alt1	2050 Alt2	2050 Alt3	
1	7.661E+03	5.837E+03	5.161E+03	5.214E+03	
2	5.743E+03	4.376E+03	3.858E+03	3.903E+03	
3	1.107E+03	8.433E+02	7.448E+02	7.529E+02	

Link ID					

Input Parameters

Project	Larkspur				
Scenario	**2025**	**2035 No Build**	**2035 Alt1**	**2035 Alt2**	**2035 Alt3**
Area	Marin (SF)	Marin (SF)	Marin (SF)	Marin (SF)	Marin (SF)
Year	2025	2035	2050	2035	2050
Season	Annual	Annual	Annual	Annual	Annual
# of Links	3	3	3	3	3

Silt Loading Factor	CARB	
Freeway	0.015	g/m2
Major/Collector	0.032	g/m2
Local Urban	0.32	g/m2
Local Rural	0.32	g/m2
Precipitation Correction	CARB	
P	73	days
N	365	days
Number of hours	24	
Number of time periods	1	
Input File	C:\Users\hzhuang\OneDrive - Jacobs\Projects\Larkspur Ferry Terminal\EMFAC\Larkspur_travel_activity - Batch_Mode_ 2025 and 2035.xlsx	

Total Emissions

General	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3	Unit
$PM_{2.5}$	1.256E-03	2.677E-03	2.601E-03	2.566E-03	2.430E-03	tons/day
PM_{10}	7.132E-03	1.553E-02	1.524E-02	1.488E-02	1.422E-02	tons/day
NO_x	3.369E-03	3.656E-03	2.579E-03	3.517E-03	2.401E-03	tons/day
CO	4.077E-02	6.106E-02	5.307E-02	5.835E-02	4.916E-02	tons/day
HC	2.403E-03	3.611E-03	2.837E-03	3.454E-03	2.637E-03	tons/day
TOG	2.582E-03	3.874E-03	3.044E-03	3.706E-03	2.830E-03	tons/day
ROG	2.278E-03	3.504E-03	2.810E-03	3.352E-03	2.613E-03	tons/day

MSATs						
1,3-Butadiene	3.800E-06	4.622E-06	3.389E-06	4.422E-06	3.146E-06	tons/day
Acetaldehyde	1.074E-05	1.269E-05	8.865E-06	1.237E-05	8.581E-06	tons/day
Acrolein	3.890E-07	5.222E-07	3.870E-07	4.988E-07	3.581E-07	tons/day
Benzene	6.187E-05	8.371E-05	6.482E-05	8.007E-05	6.022E-05	tons/day
Diesel PM	7.136E-06	6.895E-06	2.637E-06	7.219E-06	3.393E-06	tons/day
Ethylbenzene	2.665E-05	3.903E-05	3.094E-05	3.732E-05	2.873E-05	tons/day
Formaldehyde	2.660E-05	3.156E-05	2.228E-05	3.065E-05	2.137E-05	tons/day
Naphthalene	3.437E-06	3.887E-06	2.805E-06	3.717E-06	2.601E-06	tons/day
POM	8.421E-07	9.716E-07	6.719E-07	9.345E-07	6.289E-07	tons/day
DEOG	1.326E-05	1.768E-05	7.796E-06	2.024E-05	1.233E-05	tons/day

GHGs						
CO_2	1.611E+01	2.889E+01	2.644E+01	2.764E+01	2.455E+01	tons/day
N_2O	3.250E-04	4.733E-04	3.916E-04	4.553E-04	3.682E-04	tons/day
CH_4	2.203E-04	3.027E-04	1.979E-04	2.893E-04	1.834E-04	tons/day
BC	1.616E-05	1.886E-05	1.166E-05	1.819E-05	1.105E-05	tons/day
HFC	2.197E-05	1.125E-05	7.941E-07	1.081E-05	7.637E-07	tons/day

CO2e						
CO_2	1.462E+01	2.621E+01	2.399E+01	2.507E+01	2.227E+01	metric tons/day CO2e
N_2O	8.785E-02	1.280E-01	1.059E-01	1.231E-01	9.955E-02	metric tons/day CO2e
CH_4	4.997E-03	6.865E-03	4.489E-03	6.562E-03	4.160E-03	metric tons/day CO2e
BC	6.745E-03	7.871E-03	4.864E-03	7.589E-03	4.610E-03	metric tons/day CO2e
HFC	2.850E-02	1.459E-02	1.030E-03	1.403E-02	9.908E-04	metric tons/day CO2e
Total CO2e	1.474E+01	2.636E+01	2.410E+01	2.522E+01	2.238E+01	metric tons/day CO2e

PM by Process						
$PM_{2.5}$ Running Exhaust	6.426E-05	7.492E-05	4.615E-05	7.221E-05	4.370E-05	tons/day
$PM_{2.5}$ Tire Wear	1.149E-04	2.481E-04	2.433E-04	2.372E-04	2.259E-04	tons/day
$PM_{2.5}$ Brake Wear	1.508E-04	3.240E-04	3.138E-04	3.125E-04	2.976E-04	tons/day
$PM_{2.5}$ Road Dust	9.257E-04	2.030E-03	1.998E-03	1.944E-03	1.862E-03	tons/day
PM_{10} Running Exhaust	6.959E-05	8.119E-05	5.007E-05	7.823E-05	4.738E-05	tons/day
PM_{10} Tire Wear	4.595E-04	9.922E-04	9.731E-04	9.489E-04	9.037E-04	tons/day
PM_{10} Brake Wear	4.309E-04	9.258E-04	8.965E-04	8.928E-04	8.504E-04	tons/day
PM_{10} Road Dust	6.172E-03	1.353E-02	1.332E-02	1.296E-02	1.242E-02	tons/day

General	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3	Unit
$PM_{2.5}$	2.511E+00	5.354E+00	5.203E+00	5.131E+00	4.859E+00	pounds/day
PM_{10}	1.426E+01	3.107E+01	3.048E+01	2.976E+01	2.843E+01	pounds/day
NO_x	6.739E+00	7.311E+00	5.159E+00	7.035E+00	4.802E+00	pounds/day
CO	8.154E+01	1.221E+02	1.061E+02	1.167E+02	9.833E+01	pounds/day
HC	4.806E+00	7.222E+00	5.674E+00	6.908E+00	5.274E+00	pounds/day
TOG	5.165E+00	7.747E+00	6.088E+00	7.412E+00	5.661E+00	pounds/day
ROG	4.557E+00	7.007E+00	5.619E+00	6.705E+00	5.226E+00	pounds/day

MSATs						
1,3-Butadiene	7.599E-03	9.245E-03	6.777E-03	8.844E-03	6.293E-03	pounds/day
Acetaldehyde	2.148E-02	2.538E-02	1.773E-02	2.474E-02	1.716E-02	pounds/day
Acrolein	7.780E-04	1.044E-03	7.739E-04	9.976E-04	7.163E-04	pounds/day
Benzene	1.237E-01	1.674E-01	1.296E-01	1.601E-01	1.204E-01	pounds/day
Diesel PM	1.427E-02	1.379E-02	5.274E-03	1.444E-02	6.786E-03	pounds/day
Ethylbenzene	5.331E-02	7.806E-02	6.188E-02	7.464E-02	5.745E-02	pounds/day
Formaldehyde	5.320E-02	6.312E-02	4.455E-02	6.129E-02	4.274E-02	pounds/day
Naphthalene	6.874E-03	7.774E-03	5.611E-03	7.433E-03	5.203E-03	pounds/day
POM	1.684E-03	1.943E-03	1.344E-03	1.869E-03	1.258E-03	pounds/day
DEOG	2.651E-02	3.537E-02	1.559E-02	4.048E-02	2.465E-02	pounds/day

GHGs						
CO_2	3.222E+04	5.778E+04	5.288E+04	5.528E+04	4.910E+04	pounds/day
N_2O	6.499E-01	9.467E-01	7.833E-01	9.106E-01	7.365E-01	pounds/day
CH_4	4.407E-01	6.054E-01	3.958E-01	5.787E-01	3.668E-01	pounds/day
BC	3.233E-02	3.772E-02	2.331E-02	3.637E-02	2.210E-02	pounds/day
HFC	4.393E-02	2.250E-02	1.588E-03	2.163E-02	1.527E-03	pounds/day

PM by Process						
$PM_{2.5}$ Running Exhaust	1.285E-01	1.498E-01	9.230E-02	1.444E-01	8.739E-02	pounds/day
$PM_{2.5}$ Tire Wear	2.298E-01	4.961E-01	4.866E-01	4.744E-01	4.519E-01	pounds/day
$PM_{2.5}$ Brake Wear	3.016E-01	6.481E-01	6.275E-01	6.250E-01	5.952E-01	pounds/day
$PM_{2.5}$ Road Dust	1.851E+00	4.060E+00	3.996E+00	3.887E+00	3.725E+00	pounds/day
PM_{10} Running Exhaust	1.392E-01	1.624E-01	1.001E-01	1.565E-01	9.475E-02	pounds/day
PM_{10} Tire Wear	9.190E-01	1.984E+00	1.946E+00	1.898E+00	1.807E+00	pounds/day
PM_{10} Brake Wear	8.617E-01	1.852E+00	1.793E+00	1.786E+00	1.701E+00	pounds/day
PM_{10} Road Dust	1.234E+01	2.707E+01	2.664E+01	2.592E+01	2.483E+01	pounds/day

General	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3	Unit
$PM_{2.5}$	1.139E+03	2.429E+03	2.360E+03	2.327E+03	2.204E+03	grams/day
PM_{10}	6.470E+03	1.409E+04	1.383E+04	1.350E+04	1.290E+04	grams/day
NO_x	3.057E+03	3.316E+03	2.340E+03	3.191E+03	2.178E+03	grams/day
CO	3.699E+04	5.539E+04	4.815E+04	5.294E+04	4.460E+04	grams/day
HC	2.180E+03	3.276E+03	2.574E+03	3.133E+03	2.392E+03	grams/day
TOG	2.343E+03	3.514E+03	2.762E+03	3.362E+03	2.568E+03	grams/day
ROG	2.067E+03	3.178E+03	2.549E+03	3.041E+03	2.370E+03	grams/day

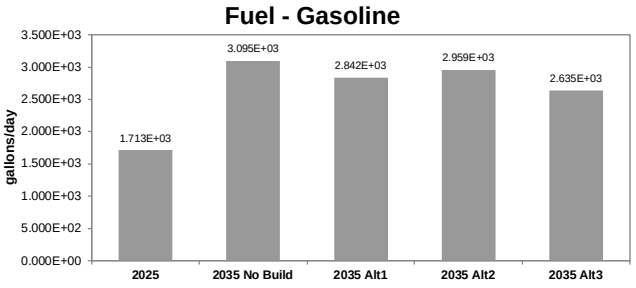
MSATs						
1,3-Butadiene	3.447E+00	4.193E+00	3.074E+00	4.012E+00	2.854E+00	grams/day
Acetaldehyde	9.742E+00	1.151E+01	8.042E+00	1.122E+01	7.785E+00	grams/day
Acrolein	3.529E-01	4.737E-01	3.510E-01	4.525E-01	3.249E-01	grams/day
Benzene	5.613E+01	7.594E+01	5.880E+01	7.264E+01	5.463E+01	grams/day
Diesel PM	6.473E+00	6.255E+00	2.392E+00	6.549E+00	3.078E+00	grams/day
Ethylbenzene	2.418E+01	3.541E+01	2.807E+01	3.386E+01	2.606E+01	grams/day
Formaldehyde	2.413E+01	2.863E+01	2.021E+01	2.780E+01	1.939E+01	grams/day
Naphthalene	3.118E+00	3.526E+00	2.545E+00	3.372E+00	2.360E+00	grams/day
POM	7.639E-01	8.814E-01	6.095E-01	8.477E-01	5.706E-01	grams/day
DEOG	1.203E+01	1.604E+01	7.072E+00	1.836E+01	1.118E+01	grams/day

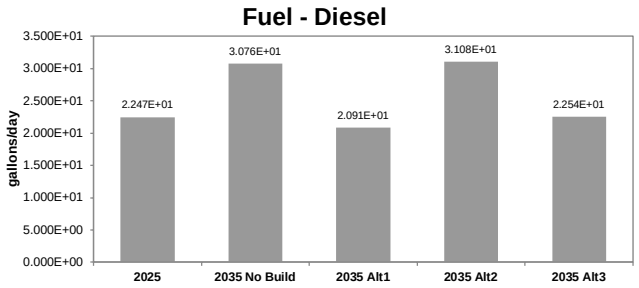
GHGs						
CO_2	1.462E+07	2.621E+07	2.399E+07	2.507E+07	2.227E+07	grams/day
N_2O	2.948E+02	4.294E+02	3.553E+02	4.130E+02	3.341E+02	grams/day
CH_4	1.999E+02	2.746E+02	1.796E+02	2.625E+02	1.664E+02	grams/day
BC	1.466E+01	1.711E+01	1.057E+01	1.650E+01	1.002E+01	grams/day
HFC	1.993E+01	1.021E+01	7.204E-01	9.809E+00	6.929E-01	grams/day

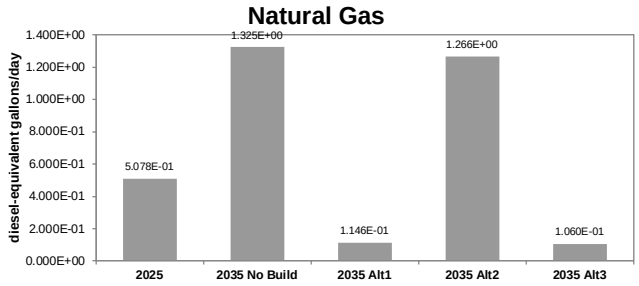
PM by Process						
$PM_{2.5}$ Running Exhaust	5.830E+01	6.797E+01	4.186E+01	6.551E+01	3.964E+01	grams/day
$PM_{2.5}$ Tire Wear	1.042E+02	2.250E+02	2.207E+02	2.152E+02	2.050E+02	grams/day
$PM_{2.5}$ Brake Wear	1.368E+02	2.940E+02	2.846E+02	2.835E+02	2.700E+02	grams/day
$PM_{2.5}$ Road Dust	8.398E+02	1.842E+03	1.813E+03	1.763E+03	1.690E+03	grams/day
PM_{10} Running Exhaust	6.313E+01	7.365E+01	4.542E+01	7.097E+01	4.298E+01	grams/day
PM_{10} Tire Wear	4.169E+02	9.001E+02	8.828E+02	8.608E+02	8.198E+02	grams/day
PM_{10} Brake Wear	3.909E+02	8.399E+02	8.133E+02	8.100E+02	7.714E+02	grams/day
PM_{10} Road Dust	5.599E+03	1.228E+04	1.208E+04	1.176E+04	1.126E+04	grams/day

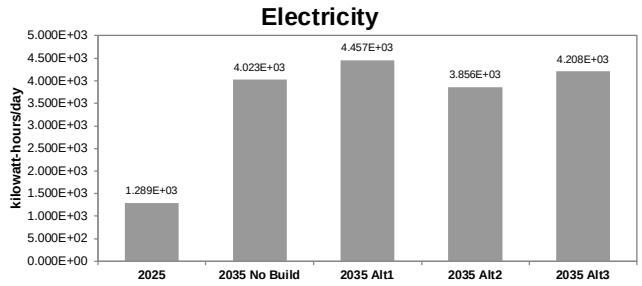
Total Consumption

Fuel/Electricity	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3	Unit
Gasoline	1.713E+03	3.095E+03	2.842E+03	2.959E+03	2.635E+03	gallons/day
Diesel	2.247E+01	3.076E+01	2.091E+01	3.108E+01	2.254E+01	gallons/day
Natural Gas	5.078E-01	1.325E+00	1.146E-01	1.266E+00	1.060E-01	diesel-equivalent gallons/day
Electricity	1.289E+03	4.023E+03	4.457E+03	3.856E+03	4.208E+03	kilowatt-hours/day









PM2.5

			Emissions by Process (grams/day)					Emissions by Process (pounds/day)				% of Emissions by Process				% of Emissions by Vehicle Type		
Scenario	Link ID	Total (grams/day)	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Total (pounds/day)	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Non-Truck	Truck	Road Type
2025	1	297.9	29.1	55.2	32.7	180.9	0.7	0.1	0.1	0.1	0.4	10	19	11	61	100	0	Major/Collector
2025	2	423.8	22.3	41.7	87.7	272.0	0.9	0.0	0.1	0.2	0.6	5	10	21	64	100	0	Local Urban
2025	3	417.5	6.8	7.3	16.4	386.9	0.9	0.0	0.0	0.0	0.9	2	2	4	93	100	0	Local Urban
2035 No Build	1	621.3	33.9	119.3	71.5	396.6	1.4	0.1	0.3	0.2	0.9	5	19	12	64	99	1	Major/Collector
2035 No Build	2	900.0	26.0	90.0	187.4	596.5	2.0	0.1	0.2	0.4	1.3	3	10	21	66	99	1	Local Urban
2035 No Build	3	907.4	8.0	15.8	35.1	848.5	2.0	0.0	0.0	0.1	1.9	1	2	4	94	99	1	Local Urban
2035 Alt1	1	596.8	20.8	117.0	68.7	390.4	1.3	0.0	0.3	0.2	0.9	3	20	12	65	99	1	Major/Collector
2035 Alt1	2	873.4	16.1	88.3	181.9	587.1	1.9	0.0	0.2	0.4	1.3	2	10	21	67	99	1	Local Urban
2035 Alt1	3	889.6	5.0	15.4	34.0	835.1	2.0	0.0	0.0	0.1	1.8	1	2	4	94	100	0	Local Urban
2035 Alt2	1	596.2	32.7	114.1	69.7	379.8	1.3	0.1	0.3	0.2	0.8	5	19	12	64	99	1	Major/Collector
2035 Alt2	2	862.4	25.1	86.1	180.1	571.1	1.9	0.1	0.2	0.4	1.3	3	10	21	66	99	1	Local Urban
2035 Alt2	3	868.9	7.7	15.1	33.7	812.4	1.9	0.0	0.0	0.1	1.8	1	2	4	94	99	1	Local Urban
2035 Alt3	1	559.2	19.6	108.6	67.1	363.9	1.2	0.0	0.2	0.1	0.8	4	19	12	65	98	2	Major/Collector
2035 Alt3	2	815.5	15.3	82.0	171.0	547.2	1.8	0.0	0.2	0.4	1.2	2	10	21	67	99	1	Local Urban
2035 Alt3	3	829.4	4.7	14.3	31.9	778.4	1.8	0.0	0.0	0.1	1.7	1	2	4	94	99	1	Local Urban

PM10

			Emissions by Process (grams/day)					Emissions by Process (pounds/day)				% of Emissions by Process				% of Emissions by Vehicle Type		
Scenario	Link ID	Total (grams/day)	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Total (pounds/day)	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Running Exhaust	Tire Wear	Brake Wear	Road Dust	Non-Truck	Truck	Road Type
2025	1	1551.6	31.5	220.9	93.3	1205.8	3.4	0.1	0.5	0.2	2.7	2	14	6	78	100	0	Major/Collector
2025	2	2255.1	24.2	166.7	250.7	1813.4	5.0	0.1	0.4	0.6	4.0	1	7	11	80	100	0	Local Urban
2025	3	2663.0	7.4	29.2	46.9	2579.6	5.9	0.0	0.1	0.1	5.7	0	1	2	97	100	0	Local Urban
2035 No Build	1	3362.4	36.7	477.1	204.3	2644.3	7.4	0.1	1.1	0.5	5.8	1	14	6	79	99	1	Major/Collector
2035 No Build	2	4900.6	28.2	360.1	535.5	3976.9	10.8	0.1	0.8	1.2	8.8	1	7	11	81	99	1	Local Urban
2035 No Build	3	5828.8	8.7	63.0	100.2	5656.9	12.9	0.0	0.1	0.2	12.5	0	1	2	97	100	0	Local Urban
2035 Alt1	1	3289.3	22.5	467.9	196.3	2602.6	7.3	0.0	1.0	0.4	5.7	1	14	6	79	99	1	Major/Collector
2035 Alt1	2	4804.5	17.5	353.1	519.8	3914.1	10.6	0.0	0.8	1.1	8.6	0	7	11	81	99	1	Local Urban
2035 Alt1	3	5732.0	5.4	61.8	97.2	5567.6	12.6	0.0	0.1	0.2	12.3	0	1	2	97	100	0	Local Urban
2035 Alt2	1	3222.5	35.4	456.2	199.2	2531.7	7.1	0.1	1.0	0.4	5.6	1	14	6	79	99	1	Major/Collector
2035 Alt2	2	4693.6	27.2	344.3	514.5	3807.5	10.3	0.1	0.8	1.1	8.4	1	7	11	81	99	1	Local Urban
2035 Alt2	3	5580.9	8.4	60.3	96.2	5416.1	12.3	0.0	0.1	0.2	11.9	0	1	2	97	99	1	Local Urban
2035 Alt3	1	3073.2	21.3	434.5	191.6	2425.8	6.8	0.0	1.0	0.4	5.3	1	14	6	79	98	2	Major/Collector
2035 Alt3	2	4481.3	16.6	327.9	488.6	3648.2	9.9	0.0	0.7	1.1	8.0	0	7	11	81	99	1	Local Urban
2035 Alt3	3	5343.2	5.1	57.4	91.3	5189.4	11.8	0.0	0.1	0.2	11.4	0	1	2	97	99	1	Local Urban

NOx

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.765E-03	1.895E-03	1.329E-03	1.823E-03	1.237E-03
2	1.325E-03	1.451E-03	1.029E-03	1.396E-03	9.576E-04
3	2.794E-04	3.100E-04	2.211E-04	2.982E-04	2.061E-04

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	3.530E+00	3.789E+00	2.659E+00	3.647E+00	2.474E+00
2	2.650E+00	2.902E+00	2.058E+00	2.792E+00	1.915E+00
3	5.589E-01	6.200E-01	4.422E-01	5.965E-01	4.122E-01

CO

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.867E-02	2.769E-02	2.388E-02	2.646E-02	2.213E-02
2	1.807E-02	2.729E-02	2.387E-02	2.608E-02	2.210E-02
3	4.035E-03	6.081E-03	5.322E-03	5.812E-03	4.931E-03

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	3.733E+01	5.538E+01	4.776E+01	5.293E+01	4.426E+01
2	3.614E+01	5.458E+01	4.774E+01	5.215E+01	4.421E+01
3	8.069E+00	1.216E+01	1.064E+01	1.162E+01	9.861E+00

HC

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.059E-03	1.560E-03	1.212E-03	1.492E-03	1.126E-03
2	1.037E-03	1.583E-03	1.252E-03	1.515E-03	1.164E-03
3	3.070E-04	4.677E-04	3.724E-04	4.474E-04	3.462E-04

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	2.119E+00	3.120E+00	2.425E+00	2.984E+00	2.253E+00
2	2.074E+00	3.167E+00	2.504E+00	3.030E+00	2.329E+00
3	6.140E-01	9.355E-01	7.449E-01	8.949E-01	6.924E-01

TOG

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.139E-03	1.674E-03	1.301E-03	1.601E-03	1.209E-03
2	1.114E-03	1.698E-03	1.343E-03	1.625E-03	1.249E-03
3	3.299E-04	5.019E-04	3.995E-04	4.802E-04	3.716E-04

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	2.278E+00	3.347E+00	2.603E+00	3.202E+00	2.419E+00
2	2.227E+00	3.396E+00	2.686E+00	3.250E+00	2.499E+00
3	6.598E-01	1.004E+00	7.991E-01	9.604E-01	7.431E-01

ROG

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	9.887E-04	1.490E-03	1.186E-03	1.425E-03	1.103E-03
2	9.955E-04	1.554E-03	1.252E-03	1.487E-03	1.165E-03
3	2.943E-04	4.595E-04	3.710E-04	4.396E-04	3.450E-04

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.977E+00	2.980E+00	2.373E+00	2.851E+00	2.205E+00
2	1.991E+00	3.108E+00	2.505E+00	2.974E+00	2.330E+00
3	5.886E-01	9.190E-01	7.420E-01	8.793E-01	6.901E-01

1,3-Butadiene

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.901E-06	2.298E-06	1.673E-06	2.198E-06	1.552E-06
2	1.458E-06	1.778E-06	1.307E-06	1.701E-06	1.215E-06
3	4.402E-07	5.468E-07	4.087E-07	5.232E-07	3.796E-07

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	3.803E-03	4.596E-03	3.345E-03	4.396E-03	3.104E-03
2	2.916E-03	3.555E-03	2.614E-03	3.402E-03	2.429E-03
3	8.804E-04	1.094E-03	8.175E-04	1.046E-03	7.592E-04

Acetaldehyde

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	5.276E-06	6.171E-06	4.316E-06	5.995E-06	4.142E-06
2	4.184E-06	4.984E-06	3.468E-06	4.877E-06	3.392E-06
3	1.278E-06	1.534E-06	1.080E-06	1.497E-06	1.047E-06

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.055E-02	1.234E-02	8.632E-03	1.199E-02	8.285E-03
2	8.368E-03	9.967E-03	6.937E-03	9.754E-03	6.784E-03
3	2.556E-03	3.069E-03	2.160E-03	2.995E-03	2.094E-03

Acrolein

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.984E-07	2.614E-07	1.910E-07	2.497E-07	1.768E-07
2	1.472E-07	1.996E-07	1.491E-07	1.907E-07	1.380E-07
3	4.339E-08	6.111E-08	4.685E-08	5.837E-08	4.336E-08

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	3.967E-04	5.229E-04	3.820E-04	4.995E-04	3.535E-04
2	2.945E-04	3.993E-04	2.983E-04	3.814E-04	2.760E-04
3	8.677E-05	1.222E-04	9.370E-05	1.167E-04	8.672E-05

Benzene

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	2.862E-05	3.793E-05	2.913E-05	3.628E-05	2.705E-05
2	2.557E-05	3.521E-05	2.743E-05	3.368E-05	2.549E-05
3	7.677E-06	1.057E-05	8.262E-06	1.011E-05	7.677E-06

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	5.724E-02	7.587E-02	5.826E-02	7.256E-02	5.410E-02
2	5.114E-02	7.041E-02	5.486E-02	6.736E-02	5.099E-02
3	1.535E-02	2.114E-02	1.652E-02	2.022E-02	1.535E-02

Diesel PM

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	3.991E-06	3.845E-06	1.433E-06	3.950E-06	1.743E-06
2	2.550E-06	2.479E-06	9.785E-07	2.644E-06	1.327E-06
3	5.951E-07	5.715E-07	2.251E-07	6.242E-07	3.236E-07

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	7.982E-03	7.690E-03	2.867E-03	7.901E-03	3.486E-03
2	5.099E-03	4.958E-03	1.957E-03	5.288E-03	2.653E-03
3	1.190E-03	1.143E-03	4.501E-04	1.248E-03	6.471E-04

Ethylbenzene

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.191E-05	1.706E-05	1.341E-05	1.631E-05	1.245E-05
2	1.137E-05	1.694E-05	1.350E-05	1.619E-05	1.254E-05
3	3.379E-06	5.035E-06	4.023E-06	4.814E-06	3.736E-06

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	2.381E-02	3.412E-02	2.683E-02	3.262E-02	2.490E-02
2	2.273E-02	3.387E-02	2.700E-02	3.239E-02	2.508E-02
3	6.759E-03	1.007E-02	8.046E-03	9.628E-03	7.472E-03

Formaldehyde

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.311E-05	1.542E-05	1.088E-05	1.493E-05	1.036E-05
2	1.033E-05	1.234E-05	8.689E-06	1.202E-05	8.406E-06
3	3.150E-06	3.800E-06	2.708E-06	3.693E-06	2.601E-06

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	2.623E-02	3.084E-02	2.176E-02	2.986E-02	2.073E-02
2	2.067E-02	2.469E-02	1.738E-02	2.405E-02	1.681E-02
3	6.300E-03	7.599E-03	5.415E-03	7.386E-03	5.202E-03

Naphthalene

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.699E-06	1.926E-06	1.387E-06	1.841E-06	1.285E-06
2	1.331E-06	1.500E-06	1.082E-06	1.434E-06	1.003E-06
3	4.077E-07	4.613E-07	3.369E-07	4.411E-07	3.124E-07

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	3.397E-03	3.852E-03	2.774E-03	3.682E-03	2.571E-03
2	2.661E-03	3.000E-03	2.163E-03	2.869E-03	2.007E-03
3	8.154E-04	9.226E-04	6.737E-04	8.823E-04	6.249E-04

POM

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	4.165E-07	4.792E-07	3.306E-07	4.603E-07	3.088E-07
2	3.255E-07	3.758E-07	2.597E-07	3.619E-07	2.437E-07
3	1.001E-07	1.167E-07	8.162E-08	1.123E-07	7.642E-08

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	8.329E-04	9.584E-04	6.612E-04	9.206E-04	6.176E-04
2	6.511E-04	7.515E-04	5.194E-04	7.238E-04	4.874E-04
3	2.001E-04	2.334E-04	1.632E-04	2.245E-04	1.528E-04

DEOG

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	5.965E-06	7.351E-06	3.097E-06	8.373E-06	4.869E-06
2	5.585E-06	7.942E-06	3.604E-06	9.159E-06	5.803E-06
3	1.706E-06	2.391E-06	1.095E-06	2.711E-06	1.655E-06

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.193E-02	1.470E-02	6.194E-03	1.675E-02	9.737E-03
2	1.117E-02	1.588E-02	7.208E-03	1.832E-02	1.161E-02
3	3.412E-03	4.783E-03	2.190E-03	5.422E-03	3.310E-03

CO2

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	8.822E+00	1.580E+01	1.446E+01	1.512E+01	1.343E+01
2	5.974E+00	1.072E+01	9.816E+00	1.026E+01	9.117E+00
3	1.314E+00	2.360E+00	2.159E+00	2.259E+00	2.007E+00

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.764E+04	3.161E+04	2.893E+04	3.023E+04	2.685E+04
2	1.195E+04	2.145E+04	1.963E+04	2.052E+04	1.823E+04
3	2.629E+03	4.720E+03	4.319E+03	4.518E+03	4.014E+03

N2O

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.701E-04	2.473E-04	2.044E-04	2.377E-04	1.920E-04
2	1.279E-04	1.868E-04	1.548E-04	1.797E-04	1.456E-04
3	2.695E-05	3.930E-05	3.247E-05	3.786E-05	3.064E-05

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	3.403E-01	4.945E-01	4.088E-01	4.755E-01	3.840E-01
2	2.557E-01	3.735E-01	3.096E-01	3.594E-01	2.912E-01
3	5.390E-02	7.861E-02	6.493E-02	7.572E-02	6.127E-02

CH4

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.105E-04	1.521E-04	9.830E-05	1.454E-04	9.107E-05
2	8.601E-05	1.184E-04	7.716E-05	1.132E-04	7.153E-05
3	2.382E-05	3.216E-05	2.246E-05	3.074E-05	2.082E-05

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	2.210E-01	3.042E-01	1.966E-01	2.907E-01	1.821E-01
2	1.720E-01	2.369E-01	1.543E-01	2.264E-01	1.431E-01
3	4.765E-02	6.431E-02	4.492E-02	6.148E-02	4.164E-02

BC

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	8.101E-06	9.460E-06	5.824E-06	9.112E-06	5.506E-06
2	6.186E-06	7.210E-06	4.466E-06	6.960E-06	4.247E-06
3	1.876E-06	2.192E-06	1.366E-06	2.114E-06	1.295E-06

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.620E-02	1.892E-02	1.165E-02	1.822E-02	1.101E-02
2	1.237E-02	1.442E-02	8.932E-03	1.392E-02	8.494E-03
3	3.751E-03	4.383E-03	2.731E-03	4.228E-03	2.590E-03

HFC

(tons/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	8.805E-06	4.510E-06	3.183E-07	4.334E-06	3.061E-07
2	1.019E-05	5.219E-06	3.684E-07	5.016E-06	3.543E-07
3	2.972E-06	1.522E-06	1.074E-07	1.463E-06	1.033E-07

(pounds/day)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.761E-02	9.019E-03	6.367E-04	8.669E-03	6.123E-04
2	2.038E-02	1.044E-02	7.368E-04	1.003E-02	7.085E-04
3	5.944E-03	3.044E-03	2.149E-04	2.926E-03	2.067E-04

Consumption - Gasoline (gallons/day)

(units)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	9.417E+02	1.705E+03	1.567E+03	1.630E+03	1.452E+03
2	6.336E+02	1.143E+03	1.049E+03	1.093E+03	9.731E+02
3	1.376E+02	2.466E+02	2.260E+02	2.358E+02	2.097E+02

Link ID					

Consumption - Diesel (gallons/day)

(units)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	1.195E+01	1.619E+01	1.104E+01	1.629E+01	1.176E+01
2	8.571E+00	1.188E+01	8.058E+00	1.204E+01	8.771E+00
3	1.955E+00	2.694E+00	1.809E+00	2.747E+00	2.002E+00

Link ID					

Consumption - Natural Gas (diesel-equivalent gallons/day)

(units)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	2.291E-01	5.985E-01	4.905E-02	5.716E-01	4.540E-02
2	2.089E-01	5.445E-01	5.089E-02	5.201E-01	4.710E-02
3	6.988E-02	1.821E-01	1.463E-02	1.739E-01	1.354E-02

Link ID					

Consumption - Electricity (kilowatt-hours/day)

(units)

Link ID	2025	2035 No Build	2035 Alt1	2035 Alt2	2035 Alt3
1	6.844E+02	2.124E+03	2.353E+03	2.036E+03	2.223E+03
2	5.070E+02	1.591E+03	1.763E+03	1.525E+03	1.663E+03
3	9.771E+01	3.073E+02	3.399E+02	2.946E+02	3.210E+02

Link ID					

Appendix B4. Health Risk Assessment and PM 2.5 Concentration Evaluation

Summary of PM2.5 Risk

	Unmitigated	Mitigated
	PM2.5 (ug/m3)	PM2.5 (ug/m3)
Construction North Lot	0.26	0.20
Construction Main Lot with HP	0.19	0.14
Construction Main Lot with ACP	0.16	0.13
BAAQMD Threshold	0.3	0.3

Summary of Cancer and Chronic Risk

	Unmitigated			Mitigated		
	Cancer Risk Resident	Cancer Risk Worker	Chronic HI	Cancer Risk Resident	Cancer Risk Worker	Chronic HI
Construciton with HP	16.67	1.33	0.023	6.93	0.42	0.009
Construciton with ACP	14.33	1.05	0.023	6.57	0.31	0.009
BAAQMD Threshold	10	10	1	10	10	1

PM2.5 - Unmitigated

North Lot

Total modeled emissions =		1	g/s
Modeled Max Impact @ 1 g/s (annual)		320.30	µg/m3

PM2.5 Emissions 2033	0.028	tons/year
PM2.5 Emissions 2034	0.020	tons/year

PM2.5 Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
0.000799	320.30	0.26
0.000570	320.30	0.18

Main Lot HP

Total modeled emissions =		1	g/s
Modeled Max Impact @ 1 g/s (annual)		68.11	µg/m3

PM2.5 Emissions 2037	0.095	tons/year
PM2.5 Emissions 2038	0.044	tons/year
PM2.5 Emissions 2039	0.029	tons/year
PM2.5 Emissions 2040	0.004	tons/year

Construction Year	PM2.5 Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
2037	0.0027	68.11	0.19
2038	0.0013	68.11	0.09
2039	0.0008	68.11	0.06
2040	0.0001	68.11	0.01

Main Lot ACP

Total modeled emissions =		1	g/s
Modeled Max Impact @ 1 g/s (annual)		68.11	µg/m3

PM2.5 Emissions 2037	0.0837	tons/year
PM2.5 Emissions 2038	0.0407	tons/year
PM2.5 Emissions 2039	0.0289	tons/year
PM2.5 Emissions 2040	0.0036	tons/year

Construction Year	PM2.5 Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
2037	0.0024	68.11	0.16
2038	0.0012	68.11	0.08
2039	0.0008	68.11	0.06
2040	0.0001	68.11	0.01

PM2.5 Mitigated

North Lot

Total modeled emissions =		1	g/s
Modeled Max Impact @ 1 g/s (annual)		320.30	µg/m3

PM2.5 Emissions 2033	0.021	tons/year
PM2.5 Emissions 2034	0.013	tons/year

PM2.5 Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
0.000610	320.30	0.20
0.000371	320.30	0.12

Main Lot HP

Total modeled emissions =		1	g/s
Modeled Max Impact @ 1 g/s (annual)		68.11	µg/m3

PM2.5 Emissions 2037	0.069	tons/year
PM2.5 Emissions 2038	0.024	tons/year
PM2.5 Emissions 2039	0.022	tons/year
PM2.5 Emissions 2040	0.003	tons/year

Construction Year	PM2.5 Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
2037	0.001993	68.11	0.14
2038	0.000704	68.11	0.05
2039	0.000633	68.11	0.04
2040	0.000094	68.11	0.01

Main Lot ACP

Total modeled emissions =		1	g/s
Modeled Max Impact @ 1 g/s (annual)		68.11	µg/m3

PM2.5 Emissions 2037	0.067	tons/year
PM2.5 Emissions 2038	0.024	tons/year
PM2.5 Emissions 2039	0.022	tons/year
PM2.5 Emissions 2040	0.003	tons/year

Construction Year	PM2.5 Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
2037	0.001923	68.11	0.13
2038	0.000681	68.11	0.05
2039	0.000631	68.11	0.04
2040	0.000094	68.11	0.01

Cancer Impacts due to Construction Diesel Particulate Matter - North Lot Unmitigated

Year	2033	2034
DPM (ton/year)	0.01110	0.01371

DPM Emissions	0.0124	tons/year

DPM Emission Rate in (g/s)	PMI Unit Impact GLC ($\mu g/m^3$)/(g/s)	PMI GLC ($\mu g/m^3$)
0.000357	320.300000	0.114297

DPM Emission Rate in (g/s)	Resident Unit Impact GLC ($\mu g/m^3$)/(g/s)	Resident GLC ($\mu g/m^3$)
0.000357	58.720000	0.020954

DPM Emission Rate in (g/s)	Worker Unit Impact GLC ($\mu g/m^3$)/(g/s)	Worker GLC ($\mu g/m^3$)
0.000357	320.300000	0.114297

Total modeled emissions =	1	g/s

Modeled Max Impact @ 1 g/s (annual)		
PMI Impact =	320.30	µg/m3
Residential Impact =	58.72	µg/m3
Worker Impact =	320.30	µg/m3

Calculated Impacts based on Model Output @ 1 g/s

Unit PMI Impact =	320.3	µg/m3
Unit Residential Max Impact =	58.7	µg/m3
Unit Worker Max Impact =	320.3	µg/m3

Calculated concentrations based on model output and CalEEMod emissions

Maximum annual impact of annualized project emissions

PMI	0.11430	$\mu g/m^3$	Diesel PM
MEIR	0.02095	$\mu g/m^3$	Diesel PM
Sensitive	0.02095	$\mu g/m^3$	Diesel PM
MEIW	0.11430	$\mu g/m^3$	Diesel PM

Demolition and Construction HRA per the 2015 OEHHA Guidance

Residential Calculation Procedure for Cancer Risks

4 years old when main lot starts

PMI	born in 203	born in 2034	Born in 2033	born in 2032	born in 2031																									
Age when Exposure Ends	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	3.96E-05	1.20E-04	1.20E-04	9.45E-05	9.45E-05	9.45E-05	9.45E-05	9.45E-05	9.45E-05	9.45E-05	8.17E-05	8.17E-05	8.17E-05	8.17E-05	8.17E-05	8.17E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05	3.68E-05
Risk per year	1.32E-06	1.60E-05	1.60E-05	3.21E-06	3.21E-06	3.21E-06	3.21E-06	3.21E-06	3.21E-06	3.21E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	2.77E-06	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07	4.22E-07
Rolling 2-year Risk [a]		1.73E-05	3.33E-05	1.92E-05	6.41E-06	6.41E-06	6.41E-06	6.41E-06	6.41E-06	6.41E-06	5.98E-06	5.55E-06	5.55E-06	5.55E-06	5.55E-06	5.55E-06	3.20E-06	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07	8.43E-07
2-year Cumulative Risk per Million		17.30	33.27	19.18	6.41	6.41	6.41	6.41	6.41	6.41	5.98	5.55	5.55	5.55	5.55	5.55	3.20	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84

MEIR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	7.26E-06	2.19E-05	2.19E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06
Risk	2.42E-07	2.93E-06	2.93E-06	5.88E-07	5.88E-07	5.88E-07	5.88E-07	5.88E-07	5.88E-07	5.88E-07	5.09E-07	5.09E-07	5.09E-07	5.09E-07	5.09E-07	5.09E-07	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08
Rolling 2-year Risk [a]		3.17E-06	6.10E-06	3.52E-06	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.10E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	5.86E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07
2-year Cumulative Risk per Million		3.17	6.10	3.52	1.18	1.18	1.18	1.18	1.18	1.18	1.10	1.02	1.02	1.02	1.02	1.02	0.59	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

MESR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	7.26E-06	2.19E-05	2.19E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.73E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06	6.74E-06
Risk	2.42E-07	2.93E-06	2.93E-06	5.88E-07	5.88E-07	5.88E-07	5.88E-07	5.88E-07	5.88E-07	5.88E-07	5.09E-07	5.09E-07	5.09E-07	5.09E-07	5.09E-07	5.09E-07	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08	7.73E-08
Rolling 2-year Risk [a]		3.17E-06	6.10E-06	3.52E-06	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.10E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	1.02E-06	5.86E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07	1.55E-07
2-year Cumulative Risk per Million		3.17	6.10	3.52	1.18	1.18	1.18	1.18	1.18	1.18	1.10	1.02	1.02	1.02	1.02	1.02	0.59	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15

Worker Calculation Procedure for Cancer Risks

MEIW

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05	1.79E-05
Risk	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07	2.81E-07
Rolling 2-year Risk [a]	2.81E-07	5.62E-07	8.43E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07	5.62E-07
2-year Cumulative Risk per Million	0.28	0.56	0.84	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56

Note:

[a] Cancer risk was summed on a 5-year rolling basis to conservatively mirror the duration of project construction.

Cancer Impacts due to Construction Diesel Particulate Matter - North Lot Mitigated

Year	2033	2034
DPM (ton/year)	0.00371	0.00581

DPM Emissions	0.0048	tons/year

Total modeled emissions =	1	g/s

Calculated concentrations based on model output and CalEEMod emissions

Maximum annual impact of annualized project emissions

PMI	0.04387	µg/m^3	Diesel PM
MEIR	0.00804	µg/m^3	Diesel PM
Sensitive	0.00804	µg/m^3	Diesel PM
MEIW	0.04387	µg/m^3	Diesel PM

DPM Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
0.000137	320.30	0.043874

DPM Emission Rate in (g/s)	Resident Unit Impact GLC (µg/m^3)/(g/s)	Resident GLC (µg/m^3)
0.000137	58.72	0.008043

DPM Emission Rate in (g/s)	Worker Unit Impact GLC (µg/m^3)/(g/s)	Worker GLC (µg/m^3)
0.000137	320.30	0.043874

Modeled Max Impact @ 1 g/s (annual)		
PMI Impact =	320.30	µg/m3
Residential Impact =	58.72	µg/m3
Worker Impact =	320.30	µg/m3

Calculated Impacts based on Model Output @ 1 g/s

Unit PMI Impact =	320.3	µg/m3
Unit Residential Max Impact =	58.7	µg/m3
Unit Worker Max Impact =	320.3	µg/m3

Demolition and Construction HRA per the 2015 OEHHA Guidance

Residential Calculation Procedure for Cancer Risks

4 years old when main lot starts

PMI	born in 203	born in 2034	Born in 2033	born in 2032	born in 2031																									
Age when Exposure Ends	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	1.52E-05	4.59E-05	4.59E-05	3.63E-05	3.63E-05	3.63E-05	3.63E-05	3.63E-05	3.63E-05	3.63E-05	3.14E-05	3.14E-05	3.14E-05	3.14E-05	3.14E-05	3.14E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05	1.41E-05
Risk per year	5.08E-07	6.13E-06	6.13E-06	1.23E-06	1.23E-06	1.23E-06	1.23E-06	1.23E-06	1.23E-06	1.23E-06	1.07E-06	1.07E-06	1.07E-06	1.07E-06	1.07E-06	1.07E-06	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07	1.62E-07
Rolling 2-year Risk [a]	NA	6.64E-06	1.28E-05	7.36E-06	2.46E-06	2.46E-06	2.46E-06	2.46E-06	2.46E-06	2.46E-06	2.30E-06	2.13E-06	2.13E-06	2.13E-06	2.13E-06	2.13E-06	1.23E-06	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07	3.24E-07
2-year Cumulative Risk per Million	NA	6.64	12.77	7.36	2.46	2.46	2.46	2.46	2.46	2.46	2.30	2.13	2.13	2.13	2.13	2.13	1.23	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32

MEIR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	2.79E-06	8.42E-06	8.42E-06	6.65E-06	6.65E-06	6.65E-06	6.65E-06	6.65E-06	6.65E-06	6.65E-06	5.75E-06	5.75E-06	5.75E-06	5.75E-06	5.75E-06	5.75E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06
Risk	9.31E-08	1.12E-06	1.12E-06	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	1.95E-07	1.95E-07	1.95E-07	1.95E-07	1.95E-07	1.95E-07	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08
Rolling 2-year Risk [a]	NA	1.22E-06	2.34E-06	1.35E-06	4.51E-07	4.51E-07	4.51E-07	4.51E-07	4.51E-07	4.51E-07	4.21E-07	3.91E-07	3.91E-07	3.91E-07	3.91E-07	3.91E-07	2.25E-07	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08
2-year Cumulative Risk per Million	NA	1.22	2.34	1.35	0.45	0.45	0.45	0.45	0.45	0.45	0.42	0.39	0.39	0.39	0.39	0.39	0.22	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

MESR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	2.79E-06	8.42E-06	8.42E-06	6.65E-06	6.65E-06	6.65E-06	6.65E-06	6.65E-06	6.65E-06	6.65E-06	5.75E-06	5.75E-06	5.75E-06	5.75E-06	5.75E-06	5.75E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06	2.59E-06
Risk	9.31E-08	1.12E-06	1.12E-06	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	2.26E-07	1.95E-07	1.95E-07	1.95E-07	1.95E-07	1.95E-07	1.95E-07	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08	2.97E-08
Rolling 2-year Risk [a]	NA	1.22E-06	2.34E-06	1.35E-06	4.51E-07	4.51E-07	4.51E-07	4.51E-07	4.51E-07	4.51E-07	4.21E-07	3.91E-07	3.91E-07	3.91E-07	3.91E-07	3.91E-07	2.25E-07	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08	5.93E-08
2-year Cumulative Risk per Million	NA	1.22	2.34	1.35	0.45	0.45	0.45	0.45	0.45	0.45	0.42	0.39	0.39	0.39	0.39	0.39	0.22	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06

Worker Calculation Procedure for Cancer Risks

MEIW

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06	6.86E-06
Risk	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07	1.08E-07
Rolling 2-year Risk [a]	1.08E-07	2.16E-07	3.23E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07	2.16E-07
2-year Cumulative Risk per Million	0.11	0.22	0.32	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22

Note:

[a] Cancer risk was summed on a 5-year rolling basis to conservatively mirror the duration of project construction.

Cancer Impacts due to Construction Diesel Particulate Matter - Main HP Unmitigated

Year	2037	2038	2039	2040
Onsite DPM (ton/year)	0.0466	0.0354	0.0176	0.0018

DPM Emissions		
	0.0253	tons/year

Total modeled emissions =	1	g/s

Calculated concentrations based on model output and CalEEMod emissions

Maximum annual impact of annualized project emissions

PMI	0.0497	µg/m^3	Diesel PM
MEIR	0.0497	µg/m^3	Diesel PM
Sensitive	0.0497	µg/m^3	Diesel PM
MEIW	0.0497	µg/m^3	Diesel PM

DPM Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
0.000729	68.11	0.049668

Modeled Max Impact @ 1 g/s (annual)		
PMI Impact =	68.11	µg/m3
Residential Impact =	68.11	µg/m3
Worker Impact =	68.11	µg/m3

DPM Emission Rate in (g/s)	Resident Unit Impact GLC (µg/m^3)/(g/s)	Resident GLC (µg/m^3)
0.000729	68.11	0.049668

Calculated Impacts based on Model Output @ 1 g/s

Unit PMI Impact =	68.1	µg/m3
Unit Residential Max Impact =	68.1	µg/m3
Unit Worker Max Impact =	68.1	µg/m3

Demolition and Construction HRA per the 2015 OEHHA Guidance

Residential Calculation Procedure for Cancer Risks

DPM Emission Rate in (g/s)	Worker Unit Impact GLC (µg/m^3)/(g/s)	Worker GLC (µg/m^3)
0.000729	68.11	0.049668

PMI	born in 2040 2040	born in 2039 2040	born in 2038 2040	born in 2037 2040	born in 2036 2040	born in 2035 2040	born in 2034 2040	born in 2033 2040	born in 2032 2040	born in 2031 2040	2040	2040	2040	2040

Age when Exposure Ends	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	1.72E-05	5.20E-05	5.20E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05
Risk per year	5.75E-07	6.94E-06	6.94E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07
Rolling 4-year Risk [a]		7.52E-06	1.45E-05	1.59E-05	1.67E-05	1.11E-05	5.57E-06	5.57E-06	5.57E-06	5.57E-06	5.39E-06	5.20E-06	5.01E-06	4.82E-06	4.82E-06	4.82E-06	3.80E-06	2.78E-06	1.76E-06	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07
4-year Cumulative Risk per Million		7.52	14.46	15.85	16.67	11.12	5.57	5.57	5.57	5.57	5.39	5.20	5.01	4.82	4.82	4.82	3.80	2.78	1.76	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73

MEIR		7.52	14.46	15.85	16.67	11.12	5.57	6.64 12.21	12.77 18.35	7.36 12.94	2.46 7.85	2.46 7.66	2.46 7.47	2.46 7.28	2.46 7.28	2.46 7.28	2.30 6.10	2.13 4.91	2.13 3.89	2.13 2.86	2.13 2.86	2.13 2.86	1.23 1.96	0.32 1.06	0.32 1.06	0.32 1.06	0.32 1.06	0.32 1.06	0.32 1.06	0.32 1.06	0.32 1.06

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	1.72E-05	5.20E-05	5.20E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05
Risk	5.75E-07	6.94E-06	6.94E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07
Rolling 4-year Risk a		7.52E-06	1.45E-05	1.59E-05	1.67E-05	1.11E-05	5.57E-06	5.57E-06	5.57E-06	5.57E-06	5.39E-06	5.20E-06	5.01E-06	4.82E-06	4.82E-06	4.82E-06	3.80E-06	2.78E-06	1.76E-06	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07
4-year Cumulative Risk per Million		7.52	14.46	15.85	16.67	11.12	5.57	5.57	5.57	5.57	5.39	5.20	5.01	4.82	4.82	4.82	3.80	2.78	1.76	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73

MESR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	1.72E-05	5.20E-05	5.20E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	4.11E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	3.55E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05	1.60E-05
Risk	5.75E-07	6.94E-06	6.94E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.21E-06	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07	1.83E-07
Rolling 4-year Risk a		7.52E-06	1.45E-05	1.59E-05	1.67E-05	1.11E-05	5.57E-06	5.57E-06	5.57E-06	5.57E-06	5.39E-06	5.20E-06	5.01E-06	4.82E-06	4.82E-06	4.82E-06	3.80E-06	2.78E-06	1.76E-06	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07	7.33E-07
4-year Cumulative Risk per Million		7.52	14.46	15.85	16.67	11.12	5.57	5.57	5.57	5.57	5.39	5.20	5.01	4.82	4.82	4.82	3.80	2.78	1.76	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73

Worker Calculation Procedure for Cancer Risks

MEIW

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06	7.77E-06
Risk	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07	1.22E-07
Rolling 4-year Risk a	1.22E-07	2.44E-07	3.66E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07	4.88E-07
4-year Cumulative Risk per Million	0.12	0.24	0.37	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49

Note:

[a] Cancer risk was summed on a 4-year rolling basis to conservatively mirror the duration of project construction.

Cancer Impacts due to Construction Diesel Particulate Matter - Main HP Mitigated

Year	2037	2038	2039	2040
Onsite DPM (ton/year)	0.0178	0.0136	0.0094	0.0013

DPM Emissions		
	0.0105	tons/year

Total modeled emissions =	1	g/s

Calculated concentrations based on model output and CalEEMod emissions

Maximum annual impact of annualized project emissions

PMI	0.0206	µg/m^3	Diesel PM
MEIR	0.0206	µg/m^3	Diesel PM
Sensitive	0.0206	µg/m^3	Diesel PM
MEIW	0.0206	µg/m^3	Diesel PM

DPM Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
0.000303	68.11	0.020646

Modeled Max Impact @ 1 g/s (annual)		
PMI Impact =	68.11	µg/m3
Residential Impact =	68.11	µg/m3
Worker Impact =	68.11	µg/m3

DPM Emission Rate in (g/s)	Resident Unit Impact GLC (µg/m^3)/(g/s)	Resident GLC (µg/m^3)
0.000303	68.11	0.020646

Calculated Impacts based on Model Output @ 1 g/s

Unit PMI Impact =	68.1	µg/m3
Unit Residential Max Impact =	68.1	µg/m3
Unit Worker Max Impact =	68.1	µg/m3

Demolition and Construction HRA per the 2015 OEHHA Guidance

Residential Calculation Procedure for Cancer Risks

DPM Emission Rate in (g/s)	Worker Unit Impact GLC (µg/m^3)/(g/s)	Worker GLC (µg/m^3)
0.000303	68.11	0.020646

PMI

		born in 2040	born in 2039	born in 2038	born in 2037	born in 2036	born in 2035	born in 2034	born in 2033	born in 2032	born in 2031																				
		2040	2040	2040	2040	2040	2040	2040	2040	2040	2040	2040	2040	2040	2040																
Age when Exposure Ends	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	7.16E-06	2.16E-05	2.16E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06
Risk per year	2.39E-07	2.89E-06	2.89E-06	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08
Rolling 4-year Risk [a]		3.12E-06	6.01E-06	6.59E-06	6.93E-06	4.62E-06	2.32E-06	2.32E-06	2.32E-06	2.32E-06	2.24E-06	2.16E-06	2.08E-06	2.00E-06	2.00E-06	2.00E-06	1.58E-06	1.15E-06	7.30E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07
4-year Cumulative Risk per Million		3.12	6.01	6.59	6.93	4.62	2.32	2.32	2.32	2.32	2.24	2.16	2.08	2.00	2.00	2.00	1.58	1.15	0.73	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

MEIR

		3.12	6.01	6.59	6.93	4.62	2.32	6.64 8.96	12.77 15.09	7.36 9.68	2.46 4.70	2.46 4.62	2.46 4.54	2.46 4.47	2.46 4.47	2.46 4.47	2.30 3.88	2.13 3.28	2.13 2.86	2.13 2.43	2.13 2.43	2.13 2.43	1.23 1.53	0.32 0.63	0.32 0.63	0.32 0.63	0.32 0.63	0.32 0.63	0.32 0.63	0.32 0.63	0.32 0.63
Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	7.16E-06	2.16E-05	2.16E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06
Risk	2.39E-07	2.89E-06	2.89E-06	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08
Rolling 4-year Risk a		3.12E-06	6.01E-06	6.59E-06	6.93E-06	4.62E-06	2.32E-06	2.32E-06	2.32E-06	2.32E-06	2.24E-06	2.16E-06	2.08E-06	2.00E-06	2.00E-06	2.00E-06	1.58E-06	1.15E-06	7.30E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07
4-year Cumulative Risk per Million		3.12	6.01	6.59	6.93	4.62	2.32	2.32	2.32	2.32	2.24	2.16	2.08	2.00	2.00	2.00	1.58	1.15	0.73	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

MESR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	7.16E-06	2.16E-05	2.16E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.71E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	1.48E-05	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06	6.64E-06
Risk	2.39E-07	2.89E-06	2.89E-06	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.79E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	5.01E-07	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08	7.62E-08
Rolling 4-year Risk a		3.12E-06	6.01E-06	6.59E-06	6.93E-06	4.62E-06	2.32E-06	2.32E-06	2.32E-06	2.32E-06	2.24E-06	2.16E-06	2.08E-06	2.00E-06	2.00E-06	2.00E-06	1.58E-06	1.15E-06	7.30E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07	3.05E-07
4-year Cumulative Risk per Million		3.12	6.01	6.59	6.93	4.62	2.32	2.32	2.32	2.32	2.24	2.16	2.08	2.00	2.00	2.00	1.58	1.15	0.73	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30

Worker Calculation Procedure for Cancer Risks

MEIW

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06
Risk	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08	5.07E-08
Rolling 4-year Risk a	5.07E-08	1.01E-07	1.52E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07	2.03E-07
4-year Cumulative Risk per Million	0.05	0.10	0.15	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

Note:

[a] Cancer risk was summed on a 4-year rolling basis to conservatively mirror the duration of project construction.

Cancer Impacts due to Construction Diesel Particulate Matter - Main ACP Unmitigated

Year	2037	2038	2039	2040
Onsite DPM (ton/year)	0.0354	0.0324	0.0176	0.0018

DPM Emissions		
	0.0218	tons/year

Total modeled emissions =	1	g/s

Modeled Max Impact @ 1 g/s (annual)		
PMI Impact =	68.11	µg/m3
Residential Impact =	68.11	µg/m3
Worker Impact =	68.11	µg/m3

Calculated concentrations based on model output and CalEEMod emissions

Maximum annual impact of annualized project emissions

PMI	0.04270	µg/m^3	Diesel PM
MEIR	0.04270	µg/m^3	Diesel PM
Sensitive	0.04270	µg/m^3	Diesel PM
MEIW	0.04270	µg/m^3	Diesel PM

DPM Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
0.000627	68.11	0.042704

DPM Emission Rate in (g/s)	Resident Unit Impact GLC (µg/m^3)/(g/s)	Resident GLC (µg/m^3)
0.000627	68.11	0.042704

DPM Emission Rate in (g/s)	Worker Unit Impact GLC (µg/m^3)/(g/s)	Worker GLC (µg/m^3)
0.000627	68.11	0.042704

Calculated Impacts based on Model Output @ 1 g/s

Unit PMI Impact =	68.1	µg/m3
Unit Residential Max Impact =	68.1	µg/m3
Unit Worker Max Impact =	68.1	µg/m3

Demolition and Construction HRA per the 2015 OEHHA Guidance

Residential Calculation Procedure for Cancer Risks

PMI

Age when Exposure Ends	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	1.48E-05	4.47E-05	4.47E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05
Risk per year	4.94E-07	5.97E-06	5.97E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07
Rolling 4-year Risk [a]		6.46E-06	1.24E-05	1.36E-05	1.43E-05	9.56E-06	4.79E-06	4.79E-06	4.79E-06	4.79E-06	4.63E-06	4.47E-06	4.31E-06	4.15E-06	4.15E-06	4.15E-06	3.27E-06	2.39E-06	1.51E-06	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07
4-year Cumulative Risk per Million		6.46	12.43	13.63	14.33	9.56	4.79	4.79	4.79	4.79	4.63	4.47	4.31	4.15	4.15	4.15	3.27	2.39	1.51	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63

MEIR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	1.48E-05	4.47E-05	4.47E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05
Risk	4.94E-07	5.97E-06	5.97E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07
Rolling 4-year Risk [a]		6.46E-06	1.24E-05	1.36E-05	1.43E-05	9.56E-06	4.79E-06	4.79E-06	4.79E-06	4.79E-06	4.63E-06	4.47E-06	4.31E-06	4.15E-06	4.15E-06	4.15E-06	3.27E-06	2.39E-06	1.51E-06	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07
4-year Cumulative Risk per Million		6.46	12.43	13.63	14.33	9.56	4.79	4.79	4.79	4.79	4.63	4.47	4.31	4.15	4.15	4.15	3.27	2.39	1.51	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63

MESR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	1.48E-05	4.47E-05	4.47E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.53E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	3.05E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05	1.37E-05
Risk	4.94E-07	5.97E-06	5.97E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.20E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.04E-06	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07	1.58E-07
Rolling 4-year Risk [a]		6.46E-06	1.24E-05	1.36E-05	1.43E-05	9.56E-06	4.79E-06	4.79E-06	4.79E-06	4.79E-06	4.63E-06	4.47E-06	4.31E-06	4.15E-06	4.15E-06	4.15E-06	3.27E-06	2.39E-06	1.51E-06	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07	6.30E-07
4-year Cumulative Risk per Million		6.46	12.43	13.63	14.33	9.56	4.79	4.79	4.79	4.79	4.63	4.47	4.31	4.15	4.15	4.15	3.27	2.39	1.51	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63

Worker Calculation Procedure for Cancer Risks

MEIW

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06	6.68E-06
Risk	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07	1.05E-07
Rolling 4-year Risk a	1.05E-07	2.10E-07	3.15E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07	2.10E-07
4-year Cumulative Risk per Million	0.10	0.21	0.31	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21

Note:

[a] Cancer risk was summed on a 5-year rolling basis to conservatively mirror the duration of project construction.

Cancer Impacts due to Construction Diesel Particulate Matter - Main ACP Mitigated

Year	2037	2038	2039	2040
Onsite DPM (ton/year)	0.0161	0.0131	0.0094	0.0013

DPM Emissions		
	0.0100	tons/year

Total modeled emissions =	1	g/s

Modeled Max Impact @ 1 g/s (annual)		
PMI Impact =	68.11	µg/m3
Residential Impact =	68.11	µg/m3
Worker Impact =	68.11	µg/m3

Calculated concentrations based on model output and CalEEMod emissions

Maximum annual impact of annualized project emissions

PMI	0.01958	µg/m^3	Diesel PM
MEIR	0.01958	µg/m^3	Diesel PM
Sensitive	0.01958	µg/m^3	Diesel PM
MEIW	0.01958	µg/m^3	Diesel PM

DPM Emission Rate in (g/s)	PMI Unit Impact GLC (µg/m^3)/(g/s)	PMI GLC (µg/m^3)
0.000288	68.11	0.019582

DPM Emission Rate in (g/s)	Resident Unit Impact GLC (µg/m^3)/(g/s)	Resident GLC (µg/m^3)
0.000288	68.11	0.019582

DPM Emission Rate in (g/s)	Worker Unit Impact GLC (µg/m^3)/(g/s)	Worker GLC (µg/m^3)
0.000288	68.11	0.019582

Calculated Impacts based on Model Output @ 1 g/s

Unit PMI Impact =	68.1	µg/m3
Unit Residential Max Impact =	68.1	µg/m3
Unit Worker Max Impact =	68.1	µg/m3

Demolition and Construction HRA per the 2015 OEHHA Guidance

Residential Calculation Procedure for Cancer Risks

PMI

Age when Exposure Ends	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	6.79E-06	2.05E-05	2.05E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06
Risk per year	2.27E-07	2.74E-06	2.74E-06	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08
Rolling 4-year Risk [a]		2.96E-06	5.70E-06	6.25E-06	6.57E-06	4.39E-06	2.20E-06	2.20E-06	2.20E-06	2.20E-06	2.12E-06	2.05E-06	1.98E-06	1.90E-06	1.90E-06	1.90E-06	1.50E-06	1.10E-06	6.92E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07
4-year Cumulative Risk per Million		2.96	5.70	6.25	6.57	4.39	2.20	2.20	2.20	2.20	2.12	2.05	1.98	1.90	1.90	1.90	1.50	1.10	0.69	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29

MEIR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	6.79E-06	2.05E-05	2.05E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06
Risk	2.27E-07	2.74E-06	2.74E-06	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08
Rolling 4-year Risk [a]		2.96E-06	5.70E-06	6.25E-06	6.57E-06	4.39E-06	2.20E-06	2.20E-06	2.20E-06	2.20E-06	2.12E-06	2.05E-06	1.98E-06	1.90E-06	1.90E-06	1.90E-06	1.50E-06	1.10E-06	6.92E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07
4-year Cumulative Risk per Million		2.96	5.70	6.25	6.57	4.39	2.20	2.20	2.20	2.20	2.12	2.05	1.98	1.90	1.90	1.90	1.50	1.10	0.69	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29

MESR

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Dose (mg/kg/day)	6.79E-06	2.05E-05	2.05E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.62E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06	6.30E-06
Risk	2.27E-07	2.74E-06	2.74E-06	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	5.49E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	4.75E-07	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08	7.22E-08
Rolling 4-year Risk [a]		2.96E-06	5.70E-06	6.25E-06	6.57E-06	4.39E-06	2.20E-06	2.20E-06	2.20E-06	2.20E-06	2.12E-06	2.05E-06	1.98E-06	1.90E-06	1.90E-06	1.90E-06	1.50E-06	1.10E-06	6.92E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07	2.89E-07
4-year Cumulative Risk per Million		2.96	5.70	6.25	6.57	4.39	2.20	2.20	2.20	2.20	2.12	2.05	1.98	1.90	1.90	1.90	1.50	1.10	0.69	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29

Worker Calculation Procedure for Cancer Risks

MEIW

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Dose (mg/kg/day)	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06	3.06E-06
Risk	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08	4.81E-08
Rolling 4-year Risk a	4.81E-08	9.63E-08	1.44E-07	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08	9.63E-08
4-year Cumulative Risk per Million	0.05	0.10	0.14	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10

Note:

[a] Cancer risk was summed on a 5-year rolling basis to conservatively mirror the duration of project construction.

Total Cumulative Cancer Risk with HP - Unmitigated

PMI

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	17.30	12.77	7.36	2.46	2.46	2.46	2.46	2.46	2.46	2.30	2.13	2.13	2.13	2.13	2.13	1.23	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Risks from 4-year Exposure from Main Lot HP (per million)	NA	3.12	14.46	15.85	16.67	11.12	5.57	5.57	5.57	5.57	5.39	5.20	5.01	4.82	4.82	4.82	3.80	2.78	1.76	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Total Cumulative Risk with HP (per Million)	NA	3.12	14.46	15.85	16.67	11.12	5.57	22.87	18.35	12.94	7.85	7.66	7.47	7.28	7.28	7.28	6.10	4.91	3.89	2.86	2.86	2.86	1.96	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06

MEIR

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	3.17	6.10	3.52	1.18	1.18	1.18	1.18	1.18	1.18	1.10	1.02	1.02	1.02	1.02	1.02	0.59	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Risks from 4-year Exposure from Main Lot HP (per million)	NA	7.52	14.46	15.85	16.67	11.12	5.57	5.57	5.57	5.57	5.39	5.20	5.01	4.82	4.82	4.82	3.80	2.78	1.76	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Total Cumulative Risk with HP (per Million)	NA	7.52	14.46	15.85	16.67	11.12	5.57	8.75	11.67	9.09	6.56	6.37	6.19	6.00	6.00	6.00	4.90	3.80	2.77	1.75	1.75	1.75	1.32	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89

MESR

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	3.17	6.10	3.52	1.18	1.18	1.18	1.18	1.18	1.18	1.10	1.02	1.02	1.02	1.02	1.02	0.59	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Risks from 4-year Exposure from Main Lot HP (per million)	NA	7.52	14.46	15.85	16.67	11.12	5.57	5.57	5.57	5.57	5.39	5.20	5.01	4.82	4.82	4.82	3.80	2.78	1.76	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73
Total Cumulative Risk with HP (per Million)	NA	7.52	14.46	15.85	16.67	11.12	5.57	8.75	11.67	9.09	6.56	6.37	6.19	6.00	6.00	6.00	4.90	3.80	2.77	1.75	1.75	1.75	1.32	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89

Worker Calculation Procedure for Cancer Risks

MEIW

Age when Exposure Ends at 2040	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Risks from 2-year Exposure from North Lot (per million)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.84	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Risks from 4-year Exposure from Main Lot HP (per million)	0.12	0.24	0.37	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49	0.49
Total Cumulative Risk with HP (per Million)	0.12	0.24	0.37	0.49	0.49	0.49	0.49	1.05	1.33	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05

Total Cumulative Cancer Risk with HP - Mitigated

PMI

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	6.64	12.77	7.36	2.46	2.46	2.46	2.46	2.46	2.46	2.30	2.13	2.13	2.13	2.13	2.13	1.23	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Risks from 4-year Exposure from Main Lot HP (per million)	NA	3.12	6.01	6.59	6.93	4.62	2.32	2.32	2.32	2.32	2.24	2.16	2.08	2.00	2.00	2.00	1.58	1.15	0.73	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Total Cumulative Risk with HP (per Million)	NA	3.12	6.01	6.59	6.93	4.62	2.32	8.96	15.09	9.68	4.70	4.62	4.54	4.47	4.47	4.47	3.88	3.28	2.86	2.43	2.43	2.43	1.53	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63

MEIR

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	1.22	2.34	1.35	0.45	0.45	0.45	0.45	0.45	0.45	0.42	0.39	0.39	0.39	0.39	0.39	0.22	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Risks from 4-year Exposure from Main Lot HP (per million)	NA	3.12	6.01	6.59	6.93	4.62	2.32	2.32	2.32	2.32	2.24	2.16	2.08	2.00	2.00	2.00	1.58	1.15	0.73	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Total Cumulative Risk with HP (per Million)	NA	3.12	6.01	6.59	6.93	4.62	2.32	3.53	4.66	3.67	2.69	2.61	2.53	2.46	2.46	2.46	2.00	1.55	1.12	0.70	0.70	0.70	0.53	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36

MESR

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	1.22	2.34	1.35	0.45	0.45	0.45	0.45	0.45	0.45	0.42	0.39	0.39	0.39	0.39	0.39	0.22	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Risks from 4-year Exposure from Main Lot HP (per million)	NA	3.12	6.01	6.59	6.93	4.62	2.32	2.32	2.32	2.32	2.24	2.16	2.08	2.00	2.00	2.00	1.58	1.15	0.73	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Total Cumulative Risk with HP (per Million)	NA	3.12	6.01	6.59	6.93	4.62	2.32	3.53	4.66	3.67	2.69	2.61	2.53	2.46	2.46	2.46	2.00	1.55	1.12	0.70	0.70	0.70	0.53	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36

Worker Calculation Procedure for Cancer Risks

MEIW

Age when Exposure Ends at 2040	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Risks from 2-year Exposure from North Lot (per million)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Risks from 4-year Exposure from Main Lot HP (per million)	0.05	0.10	0.15	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Total Cumulative Risk with HP (per Million)	0.05	0.10	0.15	0.20	0.20	0.20	0.20	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42

Total Cumulative Cancer Risk with ACP (per Million) - Unmitigated

PMI

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	17.30	33.27	19.18	6.41	6.41	6.41	6.41	6.41	6.41	5.98	5.55	5.55	5.55	5.55	5.55	3.20	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Risks from 4-year Exposure from Main Lot ACP (per million	NA	6.46	12.43	13.63	14.33	9.56	4.79	4.79	4.79	4.79	4.63	4.47	4.31	4.15	4.15	4.15	3.27	2.39	1.51	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Total Cumulative Risk with HP (per Million)	NA	6.46	12.43	13.63	14.33	9.56	4.79	22.09	38.07	23.97	11.04	10.88	10.72	10.56	10.56	10.56	9.25	7.94	7.06	6.18	6.18	6.18	3.83	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47

MEIR

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	3.17	6.10	3.52	1.18	1.18	1.18	1.18	1.18	1.18	1.10	1.02	1.02	1.02	1.02	1.02	0.59	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Risks from 4-year Exposure from Main Lot ACP (per million	NA	6.46	12.43	13.63	14.33	9.56	4.79	4.79	4.79	4.79	4.63	4.47	4.31	4.15	4.15	4.15	3.27	2.39	1.51	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Total Cumulative Risk with HP (per Million)	NA	6.46	12.43	13.63	14.33	9.56	4.79	7.96	10.89	8.31	5.81	5.65	5.48	5.32	5.32	5.32	4.36	3.41	2.53	1.65	1.65	1.65	1.22	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78

MESR

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	3.17	6.10	3.52	1.18	1.18	1.18	1.18	1.18	1.18	1.10	1.02	1.02	1.02	1.02	1.02	0.59	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Risks from 4-year Exposure from Main Lot ACP (per million	NA	6.46	12.43	13.63	14.33	9.56	4.79	4.79	4.79	4.79	4.63	4.47	4.31	4.15	4.15	4.15	3.27	2.39	1.51	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63	0.63
Total Cumulative Risk with HP (per Million)	NA	6.46	12.43	13.63	14.33	9.56	4.79	7.96	10.89	8.31	5.81	5.65	5.48	5.32	5.32	5.32	4.36	3.41	2.53	1.65	1.65	1.65	1.22	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78

Worker Calculation Procedure for Cancer Risks

MEIW

Age when Exposure Ends at 2040	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Risks from 2-year Exposure from North Lot (per million)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.84	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56
Risks from 4-year Exposure from Main Lot ACP (per million	0.10	0.21	0.31	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
Total Cumulative Risk with HP (per Million)	0.10	0.21	0.31	0.21	0.21	0.21	0.21	0.77	1.05	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77	0.77

Total Cumulative Cancer Risk with ACP (per Million) - Mitigated

PMI

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	6.64	12.77	7.36	2.46	2.46	2.46	2.46	2.46	2.46	2.30	2.13	2.13	2.13	2.13	2.13	1.23	0.32	0.32	0.32	0.32	0.32	0.32	0.32	0.32
Risks from 4-year Exposure from Main Lot ACP (per million	NA	2.96	5.70	6.25	6.57	4.39	2.20	2.20	2.20	2.20	2.12	2.05	1.98	1.90	1.90	1.90	1.50	1.10	0.69	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Total Cumulative Risk with HP (per Million)	NA	2.96	5.70	6.25	6.57	4.39	2.20	8.84	14.97	9.56	4.59	4.51	4.44	4.36	4.36	4.36	3.79	3.23	2.82	2.42	2.42	2.42	1.52	0.61	0.61	0.61	0.61	0.61	0.61	0.61	0.61

MEIR

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	1.22	2.34	1.35	0.45	0.45	0.45	0.45	0.45	0.45	0.42	0.39	0.39	0.39	0.39	0.39	0.22	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Risks from 4-year Exposure from Main Lot ACP (per million	NA	2.96	5.70	6.25	6.57	4.39	2.20	2.20	2.20	2.20	2.12	2.05	1.98	1.90	1.90	1.90	1.50	1.10	0.69	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Total Cumulative Risk with HP (per Million)	NA	2.96	5.70	6.25	6.57	4.39	2.20	3.41	4.54	3.55	2.57	2.50	2.43	2.35	2.35	2.35	1.92	1.49	1.08	0.68	0.68	0.68	0.51	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35

MESR

Age when Exposure Ends at 2040	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Risks from 2-year Exposure from North Lot (per million)	NA	0.00	0.00	0.00	0.00	0.00	0.00	1.22	2.34	1.35	0.45	0.45	0.45	0.45	0.45	0.45	0.42	0.39	0.39	0.39	0.39	0.39	0.22	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Risks from 4-year Exposure from Main Lot ACP (per million	NA	2.96	5.70	6.25	6.57	4.39	2.20	2.20	2.20	2.20	2.12	2.05	1.98	1.90	1.90	1.90	1.50	1.10	0.69	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29	0.29
Total Cumulative Risk with HP (per Million)	NA	2.96	5.70	6.25	6.57	4.39	2.20	3.41	4.54	3.55	2.57	2.50	2.43	2.35	2.35	2.35	1.92	1.49	1.08	0.68	0.68	0.68	0.51	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35

Worker Calculation Procedure for Cancer Risks

MEIW

Age when Exposure Ends at 2040	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Risks from 2-year Exposure from North Lot (per million)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Risks from 4-year Exposure from Main Lot ACP (per million	0.05	0.10	0.14	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Total Cumulative Risk with HP (per Million)	0.05	0.10	0.14	0.10	0.10	0.10	0.10	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31

Chronic Impacts due to Construction Diesel Particulate Matter - Unmitigated
Calculation Procedure for Chronic Hazard Index

North Lot

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
PMI	Diesel PM	0.1143	5.0	0.023
MEIR	Diesel PM	0.0210	5.0	0.004
MESR	Diesel PM	0.0210	5.0	0.004
MEIW	Diesel PM	0.1143	5.0	0.023

Main Lot with HP

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
PMI	Diesel PM	0.0497	5.0	0.010
MEIR	Diesel PM	0.0497	5.0	0.010
MESR	Diesel PM	0.0497	5.0	0.010
MEIW	Diesel PM	0.0497	5.0	0.010

Main Lot with ACP

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
PMI	Diesel PM	0.0427	5.0	0.009
MEIR	Diesel PM	0.0427	5.0	0.009
MESR	Diesel PM	0.0427	5.0	0.009
MEIW	Diesel PM	0.0427	5.0	0.009

Notes:

[a] Maximum Annual Modeled Concentrations taken from Appendix C, Table 1.

[b] REL taken from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* (OEHHA & ARB, 2025).
https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable09252025.pdf

Chronic Impacts due to Construction Diesel Particulate Matter -Mitigated
Calculation Procedure for Chronic Hazard Index

North Lot

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
PMI	Diesel PM	0.0439	5.0	0.0088
MEIR	Diesel PM	0.0080	5.0	0.0016
MESR	Diesel PM	0.0080	5.0	0.0016
MEIW	Diesel PM	0.0439	5.0	0.0088

Main Lot with HP

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
PMI	Diesel PM	0.0206	5.0	0.0041
MEIR	Diesel PM	0.0206	5.0	0.0041
MESR	Diesel PM	0.0206	5.0	0.0041
MEIW	Diesel PM	0.0206	5.0	0.0041

Main Lot with ACP

Receptor Type	Pollutant	Maximum Annual Modeled Concentration ($\mu g/m^3$) [a]	REL ($\mu g/m^3$) [b]	Chronic Hazard Index
PMI	Diesel PM	0.0196	5.0	0.0039
MEIR	Diesel PM	0.0196	5.0	0.0039
MESR	Diesel PM	0.0196	5.0	0.0039
MEIW	Diesel PM	0.0196	5.0	0.0039

Notes:

[a] Maximum Annual Modeled Concentrations taken from Appendix C, Table 1.

[b] REL taken from the *Consolidated Table of OEHHA/ARB Approved Risk Assessment Health Values* (OEHHA & ARB, 2025).
https://ww2.arb.ca.gov/sites/default/files/classic/toxics/healthval/contable09252025.pdf

Residential Constants for Cancer Risk

Dose Constants

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
BR/BW	361	1090	1090	861	861	861	861	861	861	861	745	745	745	745	745	745	335	335	335	335	335	335	335	335	335	335	335	335	335	335	335
A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Conversion	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001

Note: EF adjusted based on construction exposure duration

Risk Constants

Age	0 (3rd tri)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
CPF (Diesel PM)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ASF	10	10	10	3	3	3	3	3	3	3	3	3	3	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ED	0.25	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AT	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
FAH	0.85	0.85	0.85	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73	0.73

Worker Constants for Cancer Risk

Dose Constants

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
WAF [a]	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
BR/BW	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
EF	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68	0.68
Conversion	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001	0.000001

Note: EF adjusted based on construction exposure duration

Risk Constants

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CPF (Diesel PM)	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
ASF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ED	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AT	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70

Notes:

[a] Conservatively assumes construction activities occur 24 hours per day, 7 days per week.

AERSCREEN 21112 / AERMOD 24142 09/08/26
10:20:53

TITLE: Site 1

********** AREA PARAMETERS **********

SOURCE EMISSION RATE:	1.0000	g/s	7.937	lb/hr
AREA EMISSION RATE:	0.139E-03	g/(s-m2)	0.110E-02	lb/(hr-m2)
AREA HEIGHT:	1.30	meters	4.27	feet
AREA SOURCE LONG SIDE:	120.00	meters	393.70	feet
AREA SOURCE SHORT SIDE:	60.00	meters	196.85	feet
INITIAL VERTICAL DIMENSION:	1.21	meters	3.97	feet
RURAL OR URBAN:	URBAN			
POPULATION:	12620			
FLAGPOLE RECEPTOR HEIGHT:	1.50	meters	4.92	feet
INITIAL PROBE DISTANCE =	1000.	meters	3281.	feet

********** BUILDING DOWNWASH PARAMETERS **********

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

********** FLOW SECTOR ANALYSIS **********

25 meter receptor spacing: 1. meters - 1000. meters

MAXIMUM IMPACT RECEPTOR

Zo SECTOR	SURFACE ROUGHNESS	1-HR CONC (ug/m3)	RADIAL (deg)	DIST (m)	TEMPORAL PERIOD
1*	1.000	3203.	0	50.0	WIN

* = worst case diagonal

********** MAKEMET METEOROLOGY PARAMETERS **********

MIN/MAX TEMPERATURE: 279.3 / 296.5 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Wet Conditions
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 0.50

ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR	MO	DY	JDY	HR
10	01	04	4	01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS
-5.98	0.111	-9.000	0.020	-999.	85.	20.8	1.000	0.50	0.35	0.50

HT	REF TA	HT
10.0	296.5	2.0

********** AERSCREEN AUTOMATED DISTANCES **********

OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	2712.	525.00	98.29
25.00	2998.	550.00	92.17
50.00	3203.	575.00	86.68
75.00	2007.	600.00	81.74
100.00	1112.	625.00	77.27
125.00	776.2	650.00	73.22
150.00	587.2	675.00	69.51
175.00	466.4	700.00	66.11
200.00	383.5	725.00	62.99
225.00	323.7	749.99	61.41
250.00	278.1	775.00	60.01
275.00	242.9	800.00	58.69
300.00	214.9	825.00	57.43
325.00	191.9	850.00	56.24
350.00	172.9	875.00	55.11
375.00	157.0	900.00	54.02
400.00	143.5	924.99	52.99
425.00	131.9	950.00	52.01
450.00	121.8	975.00	51.07
475.00	112.9	1000.00	50.17
500.00	105.2		

********** AERSCREEN MAXIMUM IMPACT SUMMARY **********

3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

	MAXIMUM	SCALED	SCALED	SCALED	SCALED

CALCULATION PROCEDURE	1-HOUR CONC (ug/m3)	3-HOUR CONC (ug/m3)	8-HOUR CONC (ug/m3)	24-HOUR CONC (ug/m3)	ANNUAL CONC (ug/m3)
FLAT TERRAIN	3268.	3268.	3268.	3268.	N/A
DISTANCE FROM SOURCE	61.00 meters				
IMPACT AT THE AMBIENT BOUNDARY	2712.	2712.	2712.	2712.	N/A
DISTANCE FROM SOURCE	1.00 meters				

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10:25:53

TITLE: Site 2

********** AREA PARAMETERS **********

SOURCE EMISSION RATE:	1.0000	g/s	7.937	lb/hr
AREA EMISSION RATE:	0.192E-04	g/(s-m2)	0.153E-03	lb/(hr-m2)
AREA HEIGHT:	1.30	meters	4.27	feet
AREA SOURCE LONG SIDE:	260.00	meters	853.02	feet
AREA SOURCE SHORT SIDE:	200.00	meters	656.17	feet
INITIAL VERTICAL DIMENSION:	1.21	meters	3.97	feet
RURAL OR URBAN:	URBAN			
POPULATION:	12620			
FLAGPOLE RECEPTOR HEIGHT:	1.50	meters	4.92	feet
INITIAL PROBE DISTANCE =	1000.	meters	3281.	feet

********** BUILDING DOWNWASH PARAMETERS **********

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

********** FLOW SECTOR ANALYSIS **********
25 meter receptor spacing: 1. meters - 1000. meters

MAXIMUM IMPACT RECEPTOR

Zo SECTOR	SURFACE ROUGHNESS	1-HR CONC (ug/m3)	RADIAL (deg)	DIST (m)	TEMPORAL PERIOD
1*	1.000	681.1	35	150.0	WIN

* = worst case diagonal

********** MAKEMET METEOROLOGY PARAMETERS **********

MIN/MAX TEMPERATURE: 279.3 / 296.5 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Average Moisture
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 1.50

ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR	MO	DY	JDY	HR
10	01	04	4	01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS
-5.98	0.111	-9.000	0.020	-999.	85.	20.8	1.000	1.50	0.35	0.50

HT	REF TA	HT
10.0	296.5	2.0

********** AERSCREEN AUTOMATED DISTANCES **********

OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	535.1	525.00	91.26
25.00	568.0	550.00	85.90
50.00	597.8	575.00	81.10
75.00	623.5	600.00	76.74
100.00	646.2	625.00	72.74
125.00	666.3	650.00	69.12
150.00	681.1	675.00	65.76
175.00	456.9	700.00	62.72
200.00	344.3	725.00	59.92
225.00	285.1	750.00	57.28
250.00	241.2	775.00	54.84
275.00	210.1	800.00	52.60
300.00	186.7	825.00	50.50
325.00	168.0	850.00	48.54
350.00	152.7	875.00	46.73
375.00	140.2	900.00	45.24
400.00	129.2	925.00	44.58
425.00	119.6	950.00	43.94
450.00	111.2	975.00	43.34
475.00	103.8	1000.00	42.74
500.00	97.16		

********** AERSCREEN MAXIMUM IMPACT SUMMARY **********

3-hour, 8-hour, and 24-hour scaled
concentrations are equal to the 1-hour concentration as referenced in
SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY
IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
under Screening Guidance

	MAXIMUM	SCALED	SCALED	SCALED	SCALED

CALCULATION PROCEDURE	1-HOUR CONC (ug/m3)	3-HOUR CONC (ug/m3)	8-HOUR CONC (ug/m3)	24-HOUR CONC (ug/m3)	ANNUAL CONC (ug/m3)
FLAT TERRAIN	682.9	682.9	682.9	682.9	N/A
DISTANCE FROM SOURCE	155.00 meters				
IMPACT AT THE AMBIENT BOUNDARY	535.1	535.1	535.1	535.1	N/A
DISTANCE FROM SOURCE	1.00 meters				