APPENDIX B:
AIR QUALITY AND GREENHOUSE GAS DATA

Specific Plan Emissions Worksheets

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Specific Plan Criteria Air Pollutant Emissions Summary - Operations

Existing Land Uses - 2014 Emission Rates

Tons/yr	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	4.16	0.03	0.01	0.01
Energy Use	0.12	1.03	0.08	0.08
Mobile Sources	6.39	13.27	8.75	2.47
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	10.66	14.32	8.84	2.56

Existing Land Uses - 2035 Emission Rates

Tons/yr	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	4.15	0.03	0.01	0.01
Energy Use	0.12	1.03	0.08	0.08
Mobile Sources	2.71	4.54	8.68	2.40
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	6.97	5.60	8.77	2.50

Remaining Land Uses - 2035 Emission Rates

Tons/yr	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	1.94	0.03	0.01	0.01
Energy Use	0.05	0.39	0.03	0.03
Mobile Sources	1.09	1.72	3.22	0.89
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	3.07	2.14	3.26	0.94

New (Exclude Remaining Land Uses) - 2035 Emission Rates

Tons/yr	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	17.44	0.12	0.06	0.06
Energy Use	0.37	3.29	0.26	0.26
Mobile Sources	4.59	7.82	15.03	4.16
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	22.40	11.24	15.35	4.48

New (Include Remaining Land Uses) - 2035 Emission Rates

Tons/yr	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	19.38	0.15	0.08	0.08
Energy Use	0.42	3.68	0.29	0.29
Mobile Sources	5.68	9.55	18.25	5.05
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	25.47	13.38	18.62	5.42

Net Emissions

Tons/yr	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	15.23	0.12	0.06	0.06
Energy Use	0.30	2.65	0.21	0.21
Mobile Sources	2.97	5.00	9.57	2.65
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	18.50	7.78	9.85	2.92
BAAQMD Threshold (Annual)	10	10	15	10
Exceeds Threshold	Yes	No	No	No

Specific Plan Criteria Air Pollutant Emissions Summary - Operations (Average Daily)

Annual emissions divided by 365 days/year to obtain average daily emissions.

Existing Land Uses - 2014 Emission Rates

lbs/day	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	22.77	0.15	0.07	0.07
Energy Use	0.63	5.64	0.44	0.44
Mobile Sources	35.00	72.69	47.95	13.53
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	58.40	78.48	48.45	14.03

Existing Land Uses - 2035 Emission Rates

lbs/day	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	22.72	0.14	0.07	0.07
Energy Use	0.63	5.64	0.44	0.44
Mobile Sources	14.84	24.90	47.56	13.17
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	38.20	30.68	48.07	13.68

Remaining Land Uses - 2035 Emission Rates

lbs/day	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	10.62	0.14	0.07	0.07
Energy Use	0.25	2.13	0.17	0.17
Mobile Sources	5.95	9.44	17.65	4.89
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	16.83	11.71	17.89	5.13

New (Exclude Remaining Land Uses) - 2035 Emission Rates

lbs/day	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	95.56	0.68	0.35	0.35
Energy Use	2.03	18.04	1.40	1.40
Mobile Sources	25.14	42.87	82.38	22.81
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	122.73	61.59	84.13	24.56

New (Include Remaining Land Uses) - 2035 Emission Rates

lbs/day	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	106.18	0.82	0.42	0.42
Energy Use	2.28	20.17	1.57	1.57
Mobile Sources	31.10	52.31	100.03	27.70
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	139.56	73.30	102.02	29.69

Net GHG Emissions

lbs/day	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources	83.46	0.68	0.35	0.35
Energy Use	1.65	14.53	1.14	1.14
Mobile Sources	16.26	27.41	52.46	14.53
Waste Generation	0.00	0.00	0.00	0.00
Water/Wastewater	0.00	0.00	0.00	0.00
Total	101.36	42.62	53.95	16.01
BAAQMD Threshold (Daily)	54	54	82	54
Exceeds Threshold	Yes	No	No	No

Specific Plan Greenhouse Gas Emissions Summary

Existing Land Uses - 2014 Emission Rates

	MT/yr	CO2e
Area Sources		**17**
Energy Use		**3,273**
Mobile Sources		**9,470**
Waste Generation		**1,617**
Water/Wastewater		**99**
Total		**14,476**
Total without Waste Generation		**12,859**
Service Population		**1,818**
MTCO2e/SP		**7.96**
MTCO2e/SP without Waste		**7.07**
SP with Temp Residents		**1,896**
MTCO2e/SP with Temp Residents		**7.63**
MTCO2e/SP with Temp Residents without Waste		**6.78**

Remaining Land Uses - 2035 Emission Rates

	MT/yr	CO2e
Area Sources		**17**
Energy Use		**1,142**
Mobile Sources		**2,617**
Waste Generation		**602**
Water/Wastewater		**55**
Total		**4,433**
Total without Waste Generation		**3,831**

New (Exclude Remaining Land Uses) - 2035 Emission Rates

	MT/yr	CO2e
Area Sources		**97**
Energy Use		**13,096**
Mobile Sources		**12,157**
Waste Generation		**11,236**
Water/Wastewater		**349**
Total		**36,937**
Total without Waste Generation		**25,700**

New 2035 + Remaining Land Uses 2035

	MT/yr	CO2e
Area Sources		**115**
Energy Use		**14,238**
Mobile Sources		**14,774**
Waste Generation		**11,839**
Water/Wastewater		**404**
Total		**41,370**
Total without Waste Generation		**29,531**
Service Population		**12,240**
MTCO2e/SP		**3.38**
MTCO2e/SP without Waste		**2.41**
SP with Temp Residents		**12,980**
MTCO2e/SP with Temp Residents		**3.19**
MTCO2e/SP with Temp Residents without Waste		**2.28**

Net GHG Emissions

	MT/yr	CO2e
Area Sources		**97**
Energy Use		**10,965**
Mobile Sources		**5,305**
Waste Generation		**10,222**
Water/Wastewater		**304**
Total		**26,894**
Total without Waste Generation		**16,672**

Construction Emissions

Specific Plan:

Construction Year	MTons Total
2020	717
2021	3,838
2022	2,551
2023	2,289
2024	2,295
2025	2,275
2026	2,266
2027	2,257
2028	2,068
2029	1,975
2030	2,009
2031	2,004
2032	2,008
2033	1,989
2034	1,987
2035	1,756
Total Construction	**34,283**
30-Year Amortization*	**1,143**

TOD#1:

Construction Year	MTons Total
2016	553
2017	942
2018	453
2019	390
Total Construction	**2,338**
30-Year Amortization*	**78**

TOD#2:

Construction Year	MTons Total
2016	749
2017	1,129
2018	1,040
2019	242
2020	267
Total Construction	**3,428**
30-Year Amortization*	**114**

Total:

Construction Year	MTons Total
2016	1,302
2017	2,071
2018	1,493
2019	632
2020	984
2021	3,838
2022	2,551
2023	2,289
2024	2,295
2025	2,275
2026	2,266
2027	2,257
2028	2,068
2029	1,975
2030	2,009
2031	2,004
2032	2,008
2033	1,989
2034	1,987
2035	1,756
	40,048
30-Year Amortization*	**1,335**

*Total construction emissions are amortized over 30 years based on South Coast Air Quality Management District (SCAQMD) methodology; SCAQMD. 2010, September 28. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 15. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-%28ghg%29-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf?sfvrsn=2.

Specific Plan CalEEMod Output

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Specific Plan CalEEMod Operation: Existing Land Uses - Year 2014 Emissions

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Millbrae SP Operation Existing

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	76.10	1000sqft	1.75	76,100.00	0
General Light Industry	335.24	1000sqft	7.70	335,240.00	0
Hotel	39.00	Room	1.30	56,628.00	0
Apartments Low Rise	308.00	Dwelling Unit	19.25	308,000.00	0
Strip Mall	132.57	1000sqft	3.04	132,575.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Vehicle Trips - Based on information provided by F&P.

Energy Use -

Water And Wastewater - 100% Aerobic.

Solid Waste - Waste generation rates provided in Section 4.14.3.3 of Chapter 4.14, Utilities and Service Systmes, of the DEIR.

Woodstoves - Assume zero woodstoves and fireplaces in the existing model run (conservative).

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblFireplaces	NumberGas	169.40	0.00
tblFireplaces	NumberNoFireplace	95.48	308.00
tblFireplaces	NumberWood	43.12	0.00
tblLandUse	LandUseSquareFeet	132,570.00	132,575.00
tblLandUse	Population	881.00	0.00
tblSolidWaste	SolidWasteGenerationRate	141.68	521.00
tblSolidWaste	SolidWasteGenerationRate	415.70	745.00
tblSolidWaste	SolidWasteGenerationRate	70.77	745.00
tblSolidWaste	SolidWasteGenerationRate	21.35	745.00
tblSolidWaste	SolidWasteGenerationRate	139.20	745.00
tblVehicleTrips	CC_TL	7.30	10.56
tblVehicleTrips	CC_TL	7.30	10.56
tblVehicleTrips	CC_TL	7.30	10.56
tblVehicleTrips	CC_TL	7.30	10.56
tblVehicleTrips	CNW_TL	7.30	10.56
tblVehicleTrips	CNW_TL	7.30	10.56
tblVehicleTrips	CNW_TL	7.30	10.56
tblVehicleTrips	CNW_TL	7.30	10.56
tblVehicleTrips	CW_TL	9.50	10.56

tblVehicleTrips	CW_TL	9.50	10.56
tblVehicleTrips	CW_TL	9.50	10.56
tblVehicleTrips	CW_TL	9.50	10.56
tblVehicleTrips	HO_TL	5.40	10.56
tblVehicleTrips	HS_TL	4.30	10.56
tblVehicleTrips	HW_TL	12.40	10.56
tblVehicleTrips	ST_TR	7.16	4.66
tblVehicleTrips	ST_TR	1.32	0.96
tblVehicleTrips	ST_TR	2.37	2.10
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	42.04	44.24
tblVehicleTrips	SU_TR	6.07	3.98
tblVehicleTrips	SU_TR	0.68	0.49
tblVehicleTrips	SU_TR	0.98	0.89
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	20.43	21.50
tblVehicleTrips	WD_TR	6.59	4.78
tblVehicleTrips	WD_TR	6.97	5.05
tblVehicleTrips	WD_TR	11.01	9.40
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	44.32	46.64
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	20,067,439.89	20,910,120.00
tblWater	IndoorWaterUseRate	77,524,250.00	12,236,260.00
tblWater	IndoorWaterUseRate	13,525,538.22	2,777,650.00
tblWater	IndoorWaterUseRate	989,304.03	2,847,000.00
tblWater	IndoorWaterUseRate	9,819,794.17	4,838,988.00
tblWater	OutdoorWaterUseRate	12,651,212.11	0.00
tblWater	OutdoorWaterUseRate	0.00	1,835,439.00
tblWater	OutdoorWaterUseRate	8,289,846.01	416,648.00
tblWater	OutdoorWaterUseRate	109,922.67	427,050.00
tblWater	OutdoorWaterUseRate	6,018,583.53	725,848.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.54	0.00
tblWoodstoves	NumberNoncatalytic	1.54	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.1552	0.0278	2.3484	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.7461	3.7461	4.0100e-003	0.0000	3.8304
Energy	0.1156	1.0284	0.7170	6.3100e-003		0.0799	0.0799		0.0799	0.0799	0.0000	3,257.9041	3,257.9041	0.1175	0.0408	3,273.0044
Mobile	6.3878	13.2657	69.6704	0.1133	8.5623	0.1880	8.7502	2.2965	0.1723	2.4689	0.0000	9,459.5327	9,459.5327	0.4893	0.0000	9,469.8088
Waste						0.0000	0.0000		0.0000	0.0000	710.6714	0.0000	710.6714	41.9995	0.0000	1,592.660
Water						0.0000	0.0000		0.0000	0.0000	15.4293	72.1144	87.5437	0.0564	0.0342	99.3382
Total	**10.6586**	**14.3218**	**72.7358**	**0.1197**	**8.5623**	**0.2803**	**8.8426**	**2.2965**	**0.2647**	**2.5612**	**726.1007**	**12,793.2972**	**13,519.3979**	**42.6667**	**0.0750**	**14,438.6421**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.1552	0.0278	2.3484	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.7461	3.7461	4.0100e-003	0.0000	3.8304
Energy	0.1156	1.0284	0.7170	6.3100e-003		0.0799	0.0799		0.0799	0.0799	0.0000	3,257.9041	3,257.9041	0.1175	0.0408	3,273.0044
Mobile	6.3878	13.2657	69.6704	0.1133	8.5623	0.1880	8.7502	2.2965	0.1723	2.4689	0.0000	9,459.5327	9,459.5327	0.4893	0.0000	9,469.8088
Waste						0.0000	0.0000		0.0000	0.0000	710.6714	0.0000	710.6714	41.9995	0.0000	1,592.660
Water						0.0000	0.0000		0.0000	0.0000	15.4293	72.1144	87.5437	0.0561	0.0342	99.3136
Total	**10.6586**	**14.3218**	**72.7358**	**0.1197**	**8.5623**	**0.2803**	**8.8426**	**2.2965**	**0.2647**	**2.5612**	**726.1007**	**12,793.2972**	**13,519.3979**	**42.6664**	**0.0749**	**14,438.6175**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.08**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.3878	13.2657	69.6704	0.1133	8.5623	0.1880	8.7502	2.2965	0.1723	2.4689	0.0000	9,459.5327	9,459.5327	0.4893	0.0000	9,469.8088
Unmitigated	6.3878	13.2657	69.6704	0.1133	8.5623	0.1880	8.7502	2.2965	0.1723	2.4689	0.0000	9,459.5327	9,459.5327	0.4893	0.0000	9,469.8088

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,472.24	1,435.28	1225.84	4,885,881	4,885,881
General Light Industry	1,692.96	321.83	164.27	4,584,748	4,584,748
General Office Building	715.34	159.81	67.73	1,708,535	1,708,535
Hotel	0.00	0.00	0.00		
Strip Mall	6,183.06	5,864.90	2850.26	11,999,950	11,999,950
Total	10,063.61	7,781.82	4,308.09	23,179,114	23,179,114

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.56	10.56	10.56	26.10	29.10	44.80	86	11	3
General Light Industry	10.56	10.56	10.56	59.00	28.00	13.00	92	5	3
General Office Building	10.56	10.56	10.56	33.00	48.00	19.00	77	19	4
Hotel	10.56	10.56	10.56	19.40	61.60	19.00	58	38	4
Strip Mall	10.56	10.56	10.56	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.577757	0.062846	0.176434	0.115876	0.029971	0.004224	0.015173	0.003762	0.002548	0.003722	0.006470	0.000233	0.000983

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,113.7978	2,113.7978	0.0956	0.0198	2,121.9353
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,113.7978	2,113.7978	0.0956	0.0198	2,121.9353
NaturalGas Mitigated	0.1156	1.0284	0.7170	6.3100e-003		0.0799	0.0799		0.0799	0.0799	0.0000	1,144.1062	1,144.1062	0.0219	0.0210	1,151.0691
NaturalGas Unmitigated	0.1156	1.0284	0.7170	6.3100e-003		0.0799	0.0799		0.0799	0.0799	0.0000	1,144.1062	1,144.1062	0.0219	0.0210	1,151.0691

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.7952e+006	9.6800e-003	0.0880	0.0739	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	95.7987	95.7987	1.8400e-003	1.7600e-003	96.3817
Hotel	2.20453e+006	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003	0.0000	117.6420	117.6420	2.2500e-003	2.1600e-003	118.3580
Strip Mall	713254	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	38.0619	38.0619	7.3000e-004	7.0000e-004	38.2936
Apartments Low Rise	7.68869e+006	0.0415	0.3543	0.1508	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	410.2978	410.2978	7.8600e-003	7.5200e-003	412.7948
General Light Industry	9.03807e+006	0.0487	0.4430	0.3722	2.6600e-003		0.0337	0.0337		0.0337	0.0337	0.0000	482.3059	482.3059	9.2400e-003	8.8400e-003	485.2411
Total		**0.1156**	**1.0284**	**0.7170**	**6.3100e-003**		**0.0799**	**0.0799**		**0.0799**	**0.0799**	**0.0000**	**1,144.1062**	**1,144.1062**	**0.0219**	**0.0210**	**1,151.0691**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.20453e+006	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003	0.0000	117.6420	117.6420	2.2500e-003	2.1600e-003	118.3580
Strip Mall	713254	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	38.0619	38.0619	7.3000e-004	7.0000e-004	38.2936
Apartments Low Rise	7.68869e+006	0.0415	0.3543	0.1508	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	410.2978	410.2978	7.8600e-003	7.5200e-003	412.7948
General Light Industry	9.03807e+006	0.0487	0.4430	0.3722	2.6600e-003		0.0337	0.0337		0.0337	0.0337	0.0000	482.3059	482.3059	9.2400e-003	8.8400e-003	485.2411
General Office Building	1.7952e+006	9.6800e-003	0.0880	0.0739	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	95.7987	95.7987	1.8400e-003	1.7600e-003	96.3817
Total		**0.1156**	**1.0284**	**0.7170**	**6.3100e-003**		**0.0799**	**0.0799**		**0.0799**	**0.0799**	**0.0000**	**1,144.1062**	**1,144.1062**	**0.0219**	**0.0210**	**1,151.0691**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.10406e+006	321.1828	0.0145	3.0000e-003	322.4192
General Light Industry	2.89983e+006	843.5926	0.0381	7.8900e-003	846.8402
General Office Building	1.10802e+006	322.3346	0.0146	3.0200e-003	323.5755
Hotel	544761	158.4773	7.1700e-003	1.4800e-003	159.0874
Strip Mall	1.60946e+006	468.2105	0.0212	4.3800e-003	470.0130
Total		**2,113.7978**	**0.0956**	**0.0198**	**2,121.9353**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.10406e+006	321.1828	0.0145	3.0000e-003	322.4192
General Light Industry	2.89983e+006	843.5926	0.0381	7.8900e-003	846.8402
General Office Building	1.10802e+006	322.3346	0.0146	3.0200e-003	323.5755
Hotel	544761	158.4773	7.1700e-003	1.4800e-003	159.0874
Strip Mall	1.60946e+006	468.2105	0.0212	4.3800e-003	470.0130
Total		**2,113.7978**	**0.0956**	**0.0198**	**2,121.9353**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.1552	0.0278	2.3484	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.7461	3.7461	4.0100e-003	0.0000	3.8304
Unmitigated	4.1552	0.0278	2.3484	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.7461	3.7461	4.0100e-003	0.0000	3.8304

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0770	0.0278	2.3484	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.7461	3.7461	4.0100e-003	0.0000	3.8304
Total	**4.1552**	**0.0278**	**2.3484**	**1.2000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**3.7461**	**3.7461**	**4.0100e-003**	**0.0000**	**3.8304**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0770	0.0278	2.3484	1.2000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	3.7461	3.7461	4.0100e-003	0.0000	3.8304
Total	**4.1552**	**0.0278**	**2.3484**	**1.2000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**3.7461**	**3.7461**	**4.0100e-003**	**0.0000**	**3.8304**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	87.5437	0.0561	0.0342	99.3136
Unmitigated	87.5437	0.0564	0.0342	99.3382

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	20.9101 / 0	40.3131	0.0270	0.0164	45.9619
General Light Industry	12.2363 / 1.83544	25.4594	0.0159	9.6100e-003	28.7722
General Office Building	2.77765 / 0.416648	5.7793	3.6000e-003	2.1800e-003	6.5313
Hotel	2.847 / 0.42705	5.9236	3.6900e-003	2.2400e-003	6.6944
Strip Mall	4.83899 / 0.725848	10.0683	6.2700e-003	3.8000e-003	11.3783
Total		**87.5437**	**0.0564**	**0.0342**	**99.3382**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	20.9101 / 0	40.3131	0.0268	0.0164	45.9501
General Light Industry	12.2363 / 1.83544	25.4594	0.0158	9.6000e-003	28.7653
General Office Building	2.77765 / 0.416648	5.7793	3.5800e-003	2.1800e-003	6.5298
Hotel	2.847 / 0.42705	5.9236	3.6700e-003	2.2300e-003	6.6928
Strip Mall	4.83899 / 0.725848	10.0683	6.2400e-003	3.7900e-003	11.3756
Total		**87.5437**	**0.0561**	**0.0342**	**99.3136**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	710.6714	41.9995	0.0000	1,592.6603
Unmitigated	710.6714	41.9995	0.0000	1,592.6603

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	521	105.7583	6.2501	0.0000	237.0112
General Light Industry	745	151.2283	8.9373	0.0000	338.9123
General Office Building	745	151.2283	8.9373	0.0000	338.9123
Hotel	745	151.2283	8.9373	0.0000	338.9123
Strip Mall	745	151.2283	8.9373	0.0000	338.9123
Total		**710.6714**	**41.9995**	**0.0000**	**1,592.6603**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	521	105.7583	6.2501	0.0000	237.0112
General Light Industry	745	151.2283	8.9373	0.0000	338.9123
General Office Building	745	151.2283	8.9373	0.0000	338.9123
Hotel	745	151.2283	8.9373	0.0000	338.9123
Strip Mall	745	151.2283	8.9373	0.0000	338.9123
Total		**710.6714**	**41.9995**	**0.0000**	**1,592.6603**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Millbrae SP Operation Existing

San Mateo County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.18	0.02
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.75		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Specific Plan CalEEMod Operation: Existing Land Uses - Year 2035 Emissions

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Millbrae SP Operation Existing 2035

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	76.10	1000sqft	1.75	76,100.00	0
General Light Industry	335.24	1000sqft	7.70	335,240.00	0
Hotel	39.00	Room	1.30	56,628.00	0
Apartments Low Rise	308.00	Dwelling Unit	19.25	308,000.00	0
Strip Mall	132.57	1000sqft	3.04	132,575.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2035
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Vehicle Trips - Based on information provided by F&P.

Energy Use -

Water And Wastewater - 100% Aerobic.

Solid Waste - Waste generation rates provided in Section 4.14.3.3 of Chapter 4.14, Utilities and Service Systmes, of the DEIR.

Woodstoves - Assume zero woodstoves and fireplaces in the existing model run (conservative).

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblFireplaces	NumberGas	169.40	0.00
tblFireplaces	NumberNoFireplace	95.48	308.00
tblFireplaces	NumberWood	43.12	0.00
tblLandUse	LandUseSquareFeet	132,570.00	132,575.00
tblLandUse	Population	881.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblSolidWaste	SolidWasteGenerationRate	141.68	521.00
tblSolidWaste	SolidWasteGenerationRate	415.70	745.00
tblSolidWaste	SolidWasteGenerationRate	70.77	745.00
tblSolidWaste	SolidWasteGenerationRate	21.35	745.00
tblSolidWaste	SolidWasteGenerationRate	139.20	745.00
tblVehicleTrips	CC_TL	7.30	10.56
tblVehicleTrips	CC_TL	7.30	10.56
tblVehicleTrips	CC_TL	7.30	10.56
tblVehicleTrips	CC_TL	7.30	10.56
tblVehicleTrips	CNW_TL	7.30	10.56
tblVehicleTrips	CNW_TL	7.30	10.56
tblVehicleTrips	CNW_TL	7.30	10.56
tblVehicleTrips	CNW_TL	7.30	10.56

tblVehicleTrips	CW_TL	9.50	10.56
tblVehicleTrips	CW_TL	9.50	10.56
tblVehicleTrips	CW_TL	9.50	10.56
tblVehicleTrips	CW_TL	9.50	10.56
tblVehicleTrips	HO_TL	5.40	10.56
tblVehicleTrips	HS_TL	4.30	10.56
tblVehicleTrips	HW_TL	12.40	10.56
tblVehicleTrips	ST_TR	7.16	4.66
tblVehicleTrips	ST_TR	1.32	0.96
tblVehicleTrips	ST_TR	2.37	2.10
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	42.04	44.24
tblVehicleTrips	SU_TR	6.07	3.98
tblVehicleTrips	SU_TR	0.68	0.49
tblVehicleTrips	SU_TR	0.98	0.89
tblVehicleTrips	SU_TR	5.95	0.00
tblVehicleTrips	SU_TR	20.43	21.50
tblVehicleTrips	WD_TR	6.59	4.78
tblVehicleTrips	WD_TR	6.97	5.05
tblVehicleTrips	WD_TR	11.01	9.40
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	44.32	46.64
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	20,067,439.89	20,910,120.00
tblWater	IndoorWaterUseRate	77,524,250.00	12,236,260.00
tblWater	IndoorWaterUseRate	13,525,538.22	2,777,650.00
tblWater	IndoorWaterUseRate	989,304.03	2,847,000.00
tblWater	IndoorWaterUseRate	9,819,794.17	4,838,988.00
tblWater	OutdoorWaterUseRate	12,651,212.11	0.00
tblWater	OutdoorWaterUseRate	0.00	1,835,439.00
tblWater	OutdoorWaterUseRate	8,289,846.01	416,648.00
tblWater	OutdoorWaterUseRate	109,922.67	427,050.00
tblWater	OutdoorWaterUseRate	6,018,583.53	725,848.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.54	0.00
tblWoodstoves	NumberNoncatalytic	1.54	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.1469	0.0263	2.2842	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7461	3.7461	3.5800e-003	0.0000	3.8213
Energy	0.1156	1.0284	0.7170	6.3100e-003		0.0799	0.0799		0.0799	0.0799	0.0000	3,257.9041	3,257.9041	0.1175	0.0408	3,273.0044
Mobile	2.7085	4.5438	26.0207	0.1135	8.5656	0.1144	8.6800	2.2977	0.1057	2.4034	0.0000	7,022.7622	7,022.7622	0.1990	0.0000	7,026.9420
Waste						0.0000	0.0000		0.0000	0.0000	710.6714	0.0000	710.6714	41.9995	0.0000	1,592.660
Water						0.0000	0.0000		0.0000	0.0000	15.4293	72.1144	87.5437	0.0564	0.0342	99.3382
Total	**6.9710**	**5.5985**	**29.0219**	**0.1199**	**8.5656**	**0.2069**	**8.7725**	**2.2977**	**0.1983**	**2.4960**	**726.1007**	**10,356.5267**	**11,082.6274**	**42.3760**	**0.0750**	**11,995.7662**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.1469	0.0263	2.2842	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7461	3.7461	3.5800e-003	0.0000	3.8213
Energy	0.1156	1.0284	0.7170	6.3100e-003		0.0799	0.0799		0.0799	0.0799	0.0000	3,257.9041	3,257.9041	0.1175	0.0408	3,273.0044
Mobile	2.7085	4.5438	26.0207	0.1135	8.5656	0.1144	8.6800	2.2977	0.1057	2.4034	0.0000	7,022.7622	7,022.7622	0.1990	0.0000	7,026.9420
Waste						0.0000	0.0000		0.0000	0.0000	710.6714	0.0000	710.6714	41.9995	0.0000	1,592.660
Water						0.0000	0.0000		0.0000	0.0000	15.4293	72.1144	87.5437	0.0561	0.0342	99.3136
Total	**6.9710**	**5.5985**	**29.0219**	**0.1199**	**8.5656**	**0.2069**	**8.7725**	**2.2977**	**0.1983**	**2.4960**	**726.1007**	**10,356.5267**	**11,082.6274**	**42.3757**	**0.0749**	**11,995.7416**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.08**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.7085	4.5438	26.0207	0.1135	8.5656	0.1144	8.6800	2.2977	0.1057	2.4034	0.0000	7,022.7622	7,022.7622	0.1990	0.0000	7,026.9420
Unmitigated	2.7085	4.5438	26.0207	0.1135	8.5656	0.1144	8.6800	2.2977	0.1057	2.4034	0.0000	7,022.7622	7,022.7622	0.1990	0.0000	7,026.9420

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,472.24	1,435.28	1225.84	4,885,881	4,885,881
General Light Industry	1,692.96	321.83	164.27	4,584,748	4,584,748
General Office Building	715.34	159.81	67.73	1,708,535	1,708,535
Hotel	0.00	0.00	0.00		
Strip Mall	6,183.06	5,864.90	2850.26	11,999,950	11,999,950
Total	10,063.61	7,781.82	4,308.09	23,179,114	23,179,114

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.56	10.56	10.56	26.10	29.10	44.80	86	11	3
General Light Industry	10.56	10.56	10.56	59.00	28.00	13.00	92	5	3
General Office Building	10.56	10.56	10.56	33.00	48.00	19.00	77	19	4
Hotel	10.56	10.56	10.56	19.40	61.60	19.00	58	38	4
Strip Mall	10.56	10.56	10.56	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.580316	0.061477	0.172612	0.114283	0.029954	0.004183	0.017542	0.005183	0.002987	0.003460	0.006858	0.000190	0.000953

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,113.7978	2,113.7978	0.0956	0.0198	2,121.9353
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,113.7978	2,113.7978	0.0956	0.0198	2,121.9353
NaturalGas Mitigated	0.1156	1.0284	0.7170	6.3100e-003		0.0799	0.0799		0.0799	0.0799	0.0000	1,144.1062	1,144.1062	0.0219	0.0210	1,151.0691
NaturalGas Unmitigated	0.1156	1.0284	0.7170	6.3100e-003		0.0799	0.0799		0.0799	0.0799	0.0000	1,144.1062	1,144.1062	0.0219	0.0210	1,151.0691

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	1.7952e+006	9.6800e-003	0.0880	0.0739	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	95.7987	95.7987	1.8400e-003	1.7600e-003	96.3817
Hotel	2.20453e+006	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003	0.0000	117.6420	117.6420	2.2500e-003	2.1600e-003	118.3580
Strip Mall	713254	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	38.0619	38.0619	7.3000e-004	7.0000e-004	38.2936
Apartments Low Rise	7.68869e+006	0.0415	0.3543	0.1508	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	410.2978	410.2978	7.8600e-003	7.5200e-003	412.7948
General Light Industry	9.03807e+006	0.0487	0.4430	0.3722	2.6600e-003		0.0337	0.0337		0.0337	0.0337	0.0000	482.3059	482.3059	9.2400e-003	8.8400e-003	485.2411
Total		**0.1156**	**1.0284**	**0.7170**	**6.3100e-003**		**0.0799**	**0.0799**		**0.0799**	**0.0799**	**0.0000**	**1,144.1062**	**1,144.1062**	**0.0219**	**0.0210**	**1,151.0691**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	2.20453e+006	0.0119	0.1081	0.0908	6.5000e-004		8.2100e-003	8.2100e-003		8.2100e-003	8.2100e-003	0.0000	117.6420	117.6420	2.2500e-003	2.1600e-003	118.3580
Strip Mall	713254	3.8500e-003	0.0350	0.0294	2.1000e-004		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	38.0619	38.0619	7.3000e-004	7.0000e-004	38.2936
Apartments Low Rise	7.68869e+006	0.0415	0.3543	0.1508	2.2600e-003		0.0286	0.0286		0.0286	0.0286	0.0000	410.2978	410.2978	7.8600e-003	7.5200e-003	412.7948
General Light Industry	9.03807e+006	0.0487	0.4430	0.3722	2.6600e-003		0.0337	0.0337		0.0337	0.0337	0.0000	482.3059	482.3059	9.2400e-003	8.8400e-003	485.2411
General Office Building	1.7952e+006	9.6800e-003	0.0880	0.0739	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	95.7987	95.7987	1.8400e-003	1.7600e-003	96.3817
Total		**0.1156**	**1.0284**	**0.7170**	**6.3100e-003**		**0.0799**	**0.0799**		**0.0799**	**0.0799**	**0.0000**	**1,144.1062**	**1,144.1062**	**0.0219**	**0.0210**	**1,151.0691**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.10406e+006	321.1828	0.0145	3.0000e-003	322.4192
General Light Industry	2.89983e+006	843.5926	0.0381	7.8900e-003	846.8402
General Office Building	1.10802e+006	322.3346	0.0146	3.0200e-003	323.5755
Hotel	544761	158.4773	7.1700e-003	1.4800e-003	159.0874
Strip Mall	1.60946e+006	468.2105	0.0212	4.3800e-003	470.0130
Total		**2,113.7978**	**0.0956**	**0.0198**	**2,121.9353**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.10406e+006	321.1828	0.0145	3.0000e-003	322.4192
General Light Industry	2.89983e+006	843.5926	0.0381	7.8900e-003	846.8402
General Office Building	1.10802e+006	322.3346	0.0146	3.0200e-003	323.5755
Hotel	544761	158.4773	7.1700e-003	1.4800e-003	159.0874
Strip Mall	1.60946e+006	468.2105	0.0212	4.3800e-003	470.0130
Total		**2,113.7978**	**0.0956**	**0.0198**	**2,121.9353**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.1469	0.0263	2.2842	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7461	3.7461	3.5800e-003	0.0000	3.8213
Unmitigated	4.1469	0.0263	2.2842	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7461	3.7461	3.5800e-003	0.0000	3.8213

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0686	0.0263	2.2842	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7461	3.7461	3.5800e-003	0.0000	3.8213
Total	**4.1469**	**0.0263**	**2.2842**	**1.2000e-004**		**0.0127**	**0.0127**		**0.0127**	**0.0127**	**0.0000**	**3.7461**	**3.7461**	**3.5800e-003**	**0.0000**	**3.8213**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5300					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.5483					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0686	0.0263	2.2842	1.2000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	3.7461	3.7461	3.5800e-003	0.0000	3.8213
Total	**4.1469**	**0.0263**	**2.2842**	**1.2000e-004**		**0.0127**	**0.0127**		**0.0127**	**0.0127**	**0.0000**	**3.7461**	**3.7461**	**3.5800e-003**	**0.0000**	**3.8213**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	87.5437	0.0561	0.0342	99.3136
Unmitigated	87.5437	0.0564	0.0342	99.3382

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	20.9101 / 0	40.3131	0.0270	0.0164	45.9619
General Light Industry	12.2363 / 1.83544	25.4594	0.0159	9.6100e-003	28.7722
General Office Building	2.77765 / 0.416648	5.7793	3.6000e-003	2.1800e-003	6.5313
Hotel	2.847 / 0.42705	5.9236	3.6900e-003	2.2400e-003	6.6944
Strip Mall	4.83899 / 0.725848	10.0683	6.2700e-003	3.8000e-003	11.3783
Total		**87.5437**	**0.0564**	**0.0342**	**99.3382**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	20.9101 / 0	40.3131	0.0268	0.0164	45.9501
General Light Industry	12.2363 / 1.83544	25.4594	0.0158	9.6000e-003	28.7653
General Office Building	2.77765 / 0.416648	5.7793	3.5800e-003	2.1800e-003	6.5298
Hotel	2.847 / 0.42705	5.9236	3.6700e-003	2.2300e-003	6.6928
Strip Mall	4.83899 / 0.725848	10.0683	6.2400e-003	3.7900e-003	11.3756
Total		**87.5437**	**0.0561**	**0.0342**	**99.3136**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	710.6714	41.9995	0.0000	1,592.6603
Unmitigated	710.6714	41.9995	0.0000	1,592.6603

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	521	105.7583	6.2501	0.0000	237.0112
General Light Industry	745	151.2283	8.9373	0.0000	338.9123
General Office Building	745	151.2283	8.9373	0.0000	338.9123
Hotel	745	151.2283	8.9373	0.0000	338.9123
Strip Mall	745	151.2283	8.9373	0.0000	338.9123
Total		**710.6714**	**41.9995**	**0.0000**	**1,592.6603**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	521	105.7583	6.2501	0.0000	237.0112
General Light Industry	745	151.2283	8.9373	0.0000	338.9123
General Office Building	745	151.2283	8.9373	0.0000	338.9123
Hotel	745	151.2283	8.9373	0.0000	338.9123
Strip Mall	745	151.2283	8.9373	0.0000	338.9123
Total		**710.6714**	**41.9995**	**0.0000**	**1,592.6603**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Millbrae SP Operation Existing 2035

San Mateo County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.18	0.02
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.30	0.75		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Specific Plan CalEEMod Operation: Remaining Existing Land Uses

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Millbrae SP Operating Remaining Existing

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	8.50	1000sqft	0.20	8,500.00	0
Apartments Low Rise	307.00	Dwelling Unit	19.19	307,000.00	0
Strip Mall	94.47	1000sqft	2.17	94,475.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2035
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Vehicle Trips - Based on information provided by F&P.

Energy Use -

Water And Wastewater - 100% Aerobic.

Solid Waste - Waste generation rates provided in Section 4.14.3.3 of Chapter 4.14, Utilities and Service Systmes, of the DEIR.

Woodstoves - Assume zero woodstoves and fireplaces (conservative).

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblFireplaces	NumberGas	168.85	0.00
tblFireplaces	NumberNoFireplace	95.17	307.00
tblFireplaces	NumberWood	42.98	0.00
tblLandUse	LandUseSquareFeet	94,470.00	94,475.00
tblLandUse	Population	878.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblSolidWaste	SolidWasteGenerationRate	141.22	520.00
tblSolidWaste	SolidWasteGenerationRate	7.91	402.00
tblSolidWaste	SolidWasteGenerationRate	99.19	402.00
tblVehicleTrips	CC_TL	7.30	9.82
tblVehicleTrips	CC_TL	7.30	9.82
tblVehicleTrips	CNW_TL	7.30	9.82
tblVehicleTrips	CNW_TL	7.30	9.82
tblVehicleTrips	CW_TL	9.50	9.82
tblVehicleTrips	CW_TL	9.50	9.82
tblVehicleTrips	HO_TL	5.40	9.82
tblVehicleTrips	HS_TL	4.30	9.82
tblVehicleTrips	HW_TL	12.40	9.82
tblVehicleTrips	ST_TR	7.16	3.49
tblVehicleTrips	ST_TR	2.37	0.87
tblVehicleTrips	ST_TR	42.04	28.60
tblVehicleTrips	SU_TR	6.07	2.98

tblVehicleTrips	SU_TR	0.98	0.37
tblVehicleTrips	SU_TR	20.43	13.90
tblVehicleTrips	WD_TR	6.59	3.57
tblVehicleTrips	WD_TR	11.01	3.88
tblVehicleTrips	WD_TR	44.32	30.15
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	20,002,285.87	20,842,230.00
tblWater	IndoorWaterUseRate	1,510,736.86	310,250.00
tblWater	IndoorWaterUseRate	6,997,631.10	3,448,338.00
tblWater	OutdoorWaterUseRate	12,610,136.74	0.00
tblWater	OutdoorWaterUseRate	925,935.49	46,537.00
tblWater	OutdoorWaterUseRate	4,288,870.68	517,251.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.53	0.00
tblWoodstoves	NumberNoncatalytic	1.53	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9390	0.0262	2.2724	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7254	3.7254	3.5500e-003	0.0000	3.7999
Energy	0.0452	0.3879	0.1795	2.4600e-003		0.0312	0.0312		0.0312	0.0312	0.0000	1,136.5867	1,136.5867	0.0398	0.0146	1,141.9613
Mobile	1.0864	1.7224	9.9517	0.0423	3.1779	0.0432	3.2211	0.8525	0.0400	0.8924	0.0000	2,615.3445	2,615.3445	0.0745	0.0000	2,616.9092
Waste						0.0000	0.0000		0.0000	0.0000	268.7600	0.0000	268.7600	15.8833	0.0000	602.3086
Water						0.0000	0.0000		0.0000	0.0000	8.7038	39.2987	48.0025	0.0317	0.0193	54.6506
Total	**3.0705**	**2.1365**	**12.4035**	**0.0448**	**3.1779**	**0.0871**	**3.2650**	**0.8525**	**0.0838**	**0.9363**	**277.4638**	**3,794.955**	**4,072.4191**	**16.0328**	**0.0339**	**4,419.629**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9390	0.0262	2.2724	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7254	3.7254	3.5500e-003	0.0000	3.7999
Energy	0.0452	0.3879	0.1795	2.4600e-003		0.0312	0.0312		0.0312	0.0312	0.0000	1,136.5867	1,136.5867	0.0398	0.0146	1,141.9613
Mobile	1.0864	1.7224	9.9517	0.0423	3.1779	0.0432	3.2211	0.8525	0.0400	0.8924	0.0000	2,615.3445	2,615.3445	0.0745	0.0000	2,616.9092
Waste						0.0000	0.0000		0.0000	0.0000	268.7600	0.0000	268.7600	15.8833	0.0000	602.3086
Water						0.0000	0.0000		0.0000	0.0000	8.7038	39.2987	48.0025	0.0316	0.0193	54.6367
Total	**3.0705**	**2.1365**	**12.4035**	**0.0448**	**3.1779**	**0.0871**	**3.2650**	**0.8525**	**0.0838**	**0.9363**	**277.4638**	**3,794.9553**	**4,072.4191**	**16.0326**	**0.0339**	**4,419.6157**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.12**	**0.00**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0864	1.7224	9.9517	0.0423	3.1779	0.0432	3.2211	0.8525	0.0400	0.8924	0.0000	2,615.3445	2,615.3445	0.0745	0.0000	2,616.9092
Unmitigated	1.0864	1.7224	9.9517	0.0423	3.1779	0.0432	3.2211	0.8525	0.0400	0.8924	0.0000	2,615.3445	2,615.3445	0.0745	0.0000	2,616.9092

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,095.99	1,071.43	914.86	3,384,812	3,384,812
General Office Building	32.98	7.40	3.15	73,274	73,274
Strip Mall	2,848.27	2,701.84	1313.13	5,141,566	5,141,566
Total	3,977.24	3,780.67	2,231.14	8,599,652	8,599,652

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	9.82	9.82	9.82	26.10	29.10	44.80	86	11	3
General Office Building	9.82	9.82	9.82	33.00	48.00	19.00	77	19	4
Strip Mall	9.82	9.82	9.82	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.580316	0.061477	0.172612	0.114283	0.029954	0.004183	0.017542	0.005183	0.002987	0.003460	0.006858	0.000190	0.000953

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	689.7973	689.7973	0.0312	6.4500e-003	692.4528
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	689.7973	689.7973	0.0312	6.4500e-003	692.4528
NaturalGas Mitigated	0.0452	0.3879	0.1795	2.4600e-003		0.0312	0.0312		0.0312	0.0312	0.0000	446.7894	446.7894	8.5600e-003	8.1900e-003	449.5085
NaturalGas Unmitigated	0.0452	0.3879	0.1795	2.4600e-003		0.0312	0.0312		0.0312	0.0312	0.0000	446.7894	446.7894	8.5600e-003	8.1900e-003	449.5085

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	7.66373e+006	0.0413	0.3531	0.1503	2.2500e-003		0.0286	0.0286		0.0286	0.0286	0.0000	408.9657	408.9657	7.8400e-003	7.5000e-003	411.4546
General Office Building	200515	1.0800e-003	9.8300e-003	8.2600e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	10.7002	10.7002	2.1000e-004	2.0000e-004	10.7654
Strip Mall	508276	2.7400e-003	0.0249	0.0209	1.5000e-004		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	27.1235	27.1235	5.2000e-004	5.0000e-004	27.2886
Total		**0.0451**	**0.3879**	**0.1795**	**2.4600e-003**		**0.0312**	**0.0312**		**0.0312**	**0.0312**	**0.0000**	**446.7894**	**446.7894**	**8.5700e-003**	**8.2000e-003**	**449.5085**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	200515	1.0800e-003	9.8300e-003	8.2600e-003	6.0000e-005		7.5000e-004	7.5000e-004		7.5000e-004	7.5000e-004	0.0000	10.7002	10.7002	2.1000e-004	2.0000e-004	10.7654
Strip Mall	508276	2.7400e-003	0.0249	0.0209	1.5000e-004		1.8900e-003	1.8900e-003		1.8900e-003	1.8900e-003	0.0000	27.1235	27.1235	5.2000e-004	5.0000e-004	27.2886
Apartments Low Rise	7.66373e+006	0.0413	0.3531	0.1503	2.2500e-003		0.0286	0.0286		0.0286	0.0286	0.0000	408.9657	408.9657	7.8400e-003	7.5000e-003	411.4546
Total		**0.0451**	**0.3879**	**0.1795**	**2.4600e-003**		**0.0312**	**0.0312**		**0.0312**	**0.0312**	**0.0000**	**446.7894**	**446.7894**	**8.5700e-003**	**8.2000e-003**	**449.5085**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.10047e+006	320.1400	0.0145	2.9900e-003	321.3724
General Office Building	123760	36.0032	1.6300e-003	3.4000e-004	36.1418
Strip Mall	1.14693e+006	333.6541	0.0151	3.1200e-003	334.9385
Total		**689.7973**	**0.0312**	**6.4500e-003**	**692.4528**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.10047e+006	320.1400	0.0145	2.9900e-003	321.3724
General Office Building	123760	36.0032	1.6300e-003	3.4000e-004	36.1418
Strip Mall	1.14693e+006	333.6541	0.0151	3.1200e-003	334.9385
Total		**689.7973**	**0.0312**	**6.4500e-003**	**692.4528**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.9390	0.0262	2.2724	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7254	3.7254	3.5500e-003	0.0000	3.7999
Unmitigated	1.9390	0.0262	2.2724	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7254	3.7254	3.5500e-003	0.0000	3.7999

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0680	0.0262	2.2724	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7254	3.7254	3.5500e-003	0.0000	3.7999
Total	**1.9390**	**0.0262**	**2.2724**	**1.2000e-004**		**0.0126**	**0.0126**		**0.0126**	**0.0126**	**0.0000**	**3.7254**	**3.7254**	**3.5500e-003**	**0.0000**	**3.7999**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0680	0.0262	2.2724	1.2000e-004		0.0126	0.0126		0.0126	0.0126	0.0000	3.7254	3.7254	3.5500e-003	0.0000	3.7999
Total	**1.9390**	**0.0262**	**2.2724**	**1.2000e-004**		**0.0126**	**0.0126**		**0.0126**	**0.0126**	**0.0000**	**3.7254**	**3.7254**	**3.5500e-003**	**0.0000**	**3.7999**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	48.0025	0.0316	0.0193	54.6367
Unmitigated	48.0025	0.0317	0.0193	54.6506

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	20.8422 / 0	40.1822	0.0269	0.0163	45.8127
General Office Building	0.31025 / 0.046537	0.6455	4.0000e-004	2.4000e-004	0.7295
Strip Mall	3.44834 / 0.517251	7.1748	4.4700e-003	2.7100e-003	8.1084
Total		**48.0025**	**0.0317**	**0.0193**	**54.6506**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	20.8422 / 0	40.1822	0.0267	0.0163	45.8009
General Office Building	0.31025 / 0.046537	0.6455	4.0000e-004	2.4000e-004	0.7293
Strip Mall	3.44834 / 0.517251	7.1748	4.4500e-003	2.7000e-003	8.1064
Total		**48.0025**	**0.0316**	**0.0193**	**54.6367**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	268.7600	15.8833	0.0000	602.3086
Unmitigated	268.7600	15.8833	0.0000	602.3086

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	520	105.5553	6.2381	0.0000	236.5562
General Office Building	402	81.6024	4.8226	0.0000	182.8762
Strip Mall	402	81.6024	4.8226	0.0000	182.8762
Total		**268.7600**	**15.8833**	**0.0000**	**602.3086**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	520	105.5553	6.2381	0.0000	236.5562
General Office Building	402	81.6024	4.8226	0.0000	182.8762
Strip Mall	402	81.6024	4.8226	0.0000	182.8762
Total		**268.7600**	**15.8833**	**0.0000**	**602.3086**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Millbrae SP Operating Remaining Existing

San Mateo County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.21	0.03
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.16	0.42		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Specific Plan CalEEMod Operation: New Land Uses

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Millbrae SP Operation New

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,644.84	1000sqft	37.76	1,644,840.00	0
Hotel	370.00	Room	12.33	537,240.00	0
Apartments Low Rise	1,443.00	Dwelling Unit	90.19	1,443,000.00	4127
Strip Mall	180.64	1000sqft	4.15	180,635.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2035
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Vehicle Trips - Based on information provided by F&P.

Woodstoves - Since the residences are apartments, they are unlikely to install wood fireplaces.

Water And Wastewater - WSA by GHD April 2015

Solid Waste - Waste generation rates provided in Section 4.14.3.3 of Chapter 4.14, Utilities and Service Systmes, of the DEIR.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblFireplaces	NumberGas	793.65	1,443.00
tblFireplaces	NumberNoFireplace	447.33	0.00
tblFireplaces	NumberWood	202.02	0.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblSolidWaste	SolidWasteGenerationRate	663.78	2,444.00
tblSolidWaste	SolidWasteGenerationRate	1,529.70	7,268.00
tblSolidWaste	SolidWasteGenerationRate	202.57	7,268.00
tblSolidWaste	SolidWasteGenerationRate	189.66	7,268.00
tblVehicleTrips	CC_TL	7.30	9.82
tblVehicleTrips	CC_TL	7.30	9.82
tblVehicleTrips	CC_TL	7.30	9.82
tblVehicleTrips	CNW_TL	7.30	9.82
tblVehicleTrips	CNW_TL	7.30	9.82
tblVehicleTrips	CNW_TL	7.30	9.82
tblVehicleTrips	CW_TL	9.50	9.82
tblVehicleTrips	CW_TL	9.50	9.82
tblVehicleTrips	CW_TL	9.50	9.82
tblVehicleTrips	HO_TL	5.40	9.82
tblVehicleTrips	HS_TL	4.30	9.82

tblVehicleTrips	HW_TL	12.40	9.82
tblVehicleTrips	ST_TR	7.16	3.48
tblVehicleTrips	ST_TR	2.37	0.87
tblVehicleTrips	ST_TR	8.19	0.32
tblVehicleTrips	ST_TR	42.04	28.60
tblVehicleTrips	SU_TR	6.07	2.97
tblVehicleTrips	SU_TR	0.98	0.37
tblVehicleTrips	SU_TR	5.95	0.23
tblVehicleTrips	SU_TR	20.43	13.90
tblVehicleTrips	WD_TR	6.59	3.56
tblVehicleTrips	WD_TR	11.01	3.88
tblVehicleTrips	WD_TR	8.17	0.32
tblVehicleTrips	WD_TR	44.32	30.15
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	94,017,258.97	97,965,270.00
tblWater	IndoorWaterUseRate	292,343,578.05	60,036,660.00
tblWater	IndoorWaterUseRate	9,385,704.90	27,010,000.00
tblWater	IndoorWaterUseRate	13,379,719.56	6,593,178.00
tblWater	OutdoorWaterUseRate	59,271,750.22	0.00
tblWater	OutdoorWaterUseRate	179,178,322.03	9,005,499.00

tblWater	OutdoorWaterUseRate	1,042,856.10	4,051,500.00
tblWater	OutdoorWaterUseRate	8,200,473.28	988,977.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	7.21	0.00
tblWoodstoves	NumberNoncatalytic	7.21	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	17.4391	0.1234	10.6972	5.7000e-004		0.0643	0.0643		0.0643	0.0643	0.0000	86.9140	86.9140	0.0181	1.2700e-003	87.6882
Energy	0.4770	4.2370	2.9140	0.0260		0.3296	0.3296		0.3296	0.3296	0.0000	14,887.4853	14,887.4853	0.5502	0.1817	14,955.3536
Mobile	4.5889	7.8242	44.6961	0.1963	14.8365	0.1971	15.0336	3.9799	0.1822	4.1620	0.0000	12,151.7787	12,151.7787	0.3439	0.0000	12,159.0011
Waste						0.0000	0.0000		0.0000	0.0000	4,922.1249	0.0000	4,922.1249	290.8893	0.0000	11,030.7990
Water						0.0000	0.0000		0.0000	0.0000	67.7902	315.9113	383.7015	0.2476	0.1504	435.5182
Total	**22.5050**	**12.1845**	**58.3073**	**0.2229**	**14.8365**	**0.5910**	**15.4275**	**3.9799**	**0.5760**	**4.5559**	**4,989.9151**	**27,442.0893**	**32,432.0044**	**292.0491**	**0.3333**	**38,668.3600**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	17.4391	0.1234	10.6972	5.7000e-004		0.0643	0.0643		0.0643	0.0643	0.0000	86.9140	86.9140	0.0181	1.2700e-003	87.6882
Energy	0.3707	3.2924	2.2628	0.0202		0.2561	0.2561		0.2561	0.2561	0.0000	13,083.5459	13,083.5459	0.4960	0.1553	13,142.1166
Mobile	4.5889	7.8242	44.6961	0.1963	14.8365	0.1971	15.0336	3.9799	0.1822	4.1620	0.0000	12,151.7787	12,151.7787	0.3439	0.0000	12,159.0011
Waste						0.0000	0.0000		0.0000	0.0000	4,922.1249	0.0000	4,922.1249	290.8893	0.0000	11,030.7990
Water						0.0000	0.0000		0.0000	0.0000	54.2322	254.7169	308.9491	0.1972	0.1201	350.3236
Total	**22.3987**	**11.2399**	**57.6561**	**0.2171**	**14.8365**	**0.5175**	**15.3540**	**3.9799**	**0.5025**	**4.4824**	**4,976.3570**	**25,576.9555**	**30,553.3125**	**291.9445**	**0.2767**	**36,769.9284**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.47**	**7.75**	**1.12**	**2.60**	**0.00**	**12.43**	**0.48**	**0.00**	**12.75**	**1.61**	**0.27**	**6.80**	**5.79**	**0.04**	**16.98**	**4.91**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.5889	7.8242	44.6961	0.1963	14.8365	0.1971	15.0336	3.9799	0.1822	4.1620	0.0000	12,151.7787	12,151.7787	0.3439	0.0000	12,159.0011
Unmitigated	4.5889	7.8242	44.6961	0.1963	14.8365	0.1971	15.0336	3.9799	0.1822	4.1620	0.0000	12,151.7787	12,151.7787	0.3439	0.0000	12,159.0011

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	5,137.08	5,021.64	4285.71	15,863,928	15,863,928
General Office Building	6,381.98	1,431.01	608.59	14,179,218	14,179,218
Hotel	118.40	118.40	85.10	274,360	274,360
Strip Mall	5,446.15	5,166.16	2510.83	9,831,129	9,831,129
Total	17,083.60	11,737.21	7,490.23	40,148,636	40,148,636

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	9.82	9.82	9.82	26.10	29.10	44.80	86	11	3
General Office Building	9.82	9.82	9.82	33.00	48.00	19.00	77	19	4
Hotel	9.82	9.82	9.82	19.40	61.60	19.00	58	38	4
Strip Mall	9.82	9.82	9.82	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.580316	0.061477	0.172612	0.114283	0.029954	0.004183	0.017542	0.005183	0.002987	0.003460	0.006858	0.000190	0.000953

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	9,415.1252	9,415.1252	0.4257	0.0881	9,451.3706
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10,166.8505	10,166.8505	0.4597	0.0951	10,205.9897
NaturalGas Mitigated	0.3707	3.2924	2.2628	0.0202		0.2561	0.2561		0.2561	0.2561	0.0000	3,668.4207	3,668.4207	0.0703	0.0673	3,690.7461
NaturalGas Unmitigated	0.4770	4.2370	2.9140	0.0260		0.3296	0.3296		0.3296	0.3296	0.0000	4,720.6349	4,720.6349	0.0905	0.0865	4,749.3639

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	3.37785e+007	0.1821	1.5565	0.6623	9.9300e-003		0.1258	0.1258		0.1258	0.1258	0.0000	1,802.5506	1,802.5506	0.0346	0.0331	1,813.5207
General Office Building	3.33738e+007	0.1800	1.6360	1.3742	9.8200e-003		0.1243	0.1243		0.1243	0.1243	0.0000	1,780.9533	1,780.9533	0.0341	0.0327	1,791.7918
Hotel	2.0442e+007	0.1102	1.0021	0.8417	6.0100e-003		0.0762	0.0762		0.0762	0.0762	0.0000	1,090.8620	1,090.8620	0.0209	0.0200	1,097.5008
Strip Mall	867048	4.6800e-003	0.0425	0.0357	2.6000e-004		3.2300e-003	3.2300e-003		3.2300e-003	3.2300e-003	0.0000	46.2690	46.2690	8.9000e-004	8.5000e-004	46.5506
Total		**0.4770**	**4.2370**	**2.9140**	**0.0260**		**0.3296**	**0.3296**		**0.3296**	**0.3296**	**0.0000**	**4,720.6349**	**4,720.6349**	**0.0905**	**0.0866**	**4,749.3639**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	2.54457e+007	0.1372	1.2473	1.0478	7.4800e-003		0.0948	0.0948		0.0948	0.0948	0.0000	1,357.8781	1,357.8781	0.0260	0.0249	1,366.1419
Hotel	1.62891e+007	0.0878	0.7985	0.6707	4.7900e-003		0.0607	0.0607		0.0607	0.0607	0.0000	869.2493	869.2493	0.0167	0.0159	874.5394
Strip Mall	681897	3.6800e-003	0.0334	0.0281	2.0000e-004		2.5400e-003	2.5400e-003		2.5400e-003	2.5400e-003	0.0000	36.3886	36.3886	7.0000e-004	6.7000e-004	36.6101
Apartments Low Rise	2.63269e+007	0.1420	1.2131	0.5162	7.7400e-003		0.0981	0.0981		0.0981	0.0981	0.0000	1,404.9046	1,404.9046	0.0269	0.0258	1,413.4546
Total		**0.3707**	**3.2924**	**2.2628**	**0.0202**		**0.2561**	**0.2561**		**0.2561**	**0.2561**	**0.0000**	**3,668.4207**	**3,668.4207**	**0.0703**	**0.0673**	**3,690.7461**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.13183e+006	1,492.9075	0.0675	0.0140	1,498.6547
General Office Building	2.28304e+007	6,641.6191	0.3003	0.0621	6,667.1873
Hotel	4.88888e+006	1,422.2324	0.0643	0.0133	1,427.7076
Strip Mall	2.09717e+006	610.0915	0.0276	5.7100e-003	612.4402
Total		**10,166.8504**	**0.4597**	**0.0951**	**10,205.9897**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	5.0903e+006	1,480.8260	0.0670	0.0139	1,486.5268
General Office Building	2.07702e+007	6,042.2943	0.2732	0.0565	6,065.5553
Hotel	4.53028e+006	1,317.9093	0.0596	0.0123	1,322.9829
Strip Mall	1.97344e+006	574.0956	0.0260	5.3700e-003	576.3057
Total		**9,415.1252**	**0.4257**	**0.0881**	**9,451.3706**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	17.4391	0.1234	10.6972	5.7000e-004		0.0643	0.0643		0.0643	0.0643	0.0000	86.9140	86.9140	0.0181	1.2700e-003	87.6882
Unmitigated	17.4391	0.1234	10.6972	5.7000e-004		0.0643	0.0643		0.0643	0.0643	0.0000	86.9140	86.9140	0.0181	1.2700e-003	87.6882

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.2478					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.8632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0100e-003	0.0000	3.8000e-004	0.0000		4.8400e-003	4.8400e-003		4.7900e-003	4.7900e-003	0.0000	69.3729	69.3729	1.3300e-003	1.2700e-003	69.7951
Landscaping	0.3211	0.1234	10.6968	5.7000e-004		0.0595	0.0595		0.0595	0.0595	0.0000	17.5411	17.5411	0.0168	0.0000	17.8931
Total	**17.4391**	**0.1234**	**10.6972**	**5.7000e-004**		**0.0643**	**0.0643**		**0.0643**	**0.0643**	**0.0000**	**86.9140**	**86.9140**	**0.0181**	**1.2700e-003**	**87.6882**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.2478					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	14.8632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.0100e-003	0.0000	3.8000e-004	0.0000		4.8400e-003	4.8400e-003		4.7900e-003	4.7900e-003	0.0000	69.3729	69.3729	1.3300e-003	1.2700e-003	69.7951
Landscaping	0.3211	0.1234	10.6968	5.7000e-004		0.0595	0.0595		0.0595	0.0595	0.0000	17.5411	17.5411	0.0168	0.0000	17.8931
Total	**17.4391**	**0.1234**	**10.6972**	**5.7000e-004**		**0.0643**	**0.0643**		**0.0643**	**0.0643**	**0.0000**	**86.9140**	**86.9140**	**0.0181**	**1.2700e-003**	**87.6882**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	308.9491	0.1972	0.1201	350.3236
Unmitigated	383.7015	0.2476	0.1504	435.5182

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	97.9653 / 0	188.8696	0.1263	0.0768	215.3346
General Office Building	60.0367 / 9.0055	124.9154	0.0778	0.0472	141.1695
Hotel	27.01 / 4.0515	56.1984	0.0350	0.0212	63.5110
Strip Mall	6.59318 / 0.988977	13.7181	8.5400e-003	5.1800e-003	15.5031
Total		**383.7015**	**0.2476**	**0.1504**	**435.5182**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	78.3722 / 0	151.0956	0.1005	0.0614	172.2235
General Office Building	48.0293 / 8.45616	101.2069	0.0620	0.0377	114.1879
Hotel	21.608 / 3.80436	45.5321	0.0279	0.0170	51.3722
Strip Mall	5.27454 / 0.928649	11.1145	6.8100e-003	4.1400e-003	12.5400
Total		**308.9491**	**0.1972**	**0.1201**	**350.3236**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4,922.1249	290.8893	0.0000	11,030.7990
Unmitigated	4,922.1249	290.8893	0.0000	11,030.7990

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	2444	496.1099	29.3193	0.0000	1,111.8143
General Office Building	7268	1,475.3383	87.1900	0.0000	3,306.3283
Hotel	7268	1,475.3383	87.1900	0.0000	3,306.3283
Strip Mall	7268	1,475.3383	87.1900	0.0000	3,306.3283
Total		**4,922.1249**	**290.8893**	**0.0000**	**11,030.7990**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	2444	496.1099	29.3193	0.0000	1,111.8143
General Office Building	7268	1,475.3383	87.1900	0.0000	3,306.3283
Hotel	7268	1,475.3383	87.1900	0.0000	3,306.3283
Strip Mall	7268	1,475.3383	87.1900	0.0000	3,306.3283
Total		**4,922.1249**	**290.8893**	**0.0000**	**11,030.7990**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Millbrae SP Operation New

San Mateo County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.39	7.39	7.39	7.40	7.39
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	22.29	22.29	22.35	22.33	22.29	22.29	0.00	22.29	22.29	22.28	22.29	22.29
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	19.37	19.48	20.37	20.12	19.56
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.29	0.63		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Specific Plan CalEEMod Construction

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Millbrae SP Construction

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1,213.31	1000sqft	27.85	1,213,305.00	0
Hotel	254.00	Room	8.47	368,808.00	0
Apartments Low Rise	622.00	Dwelling Unit	38.88	622,000.00	0
Strip Mall	101.70	1000sqft	2.33	101,700.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2035
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Construction Phase - Normalized for 20-Year construction schedule.

Trips and VMT - Assume 1000 worker trips for building construction.

Demolition -

Grading -

Architectural Coating -

Construction Off-road Equipment Mitigation - BAAQMD BMPs

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstructionPhase	NumDays	110.00	279.00
tblConstructionPhase	NumDays	1,550.00	3,925.00
tblConstructionPhase	NumDays	100.00	253.00
tblConstructionPhase	NumDays	155.00	393.00
tblConstructionPhase	NumDays	110.00	1,962.00
tblConstructionPhase	NumDays	60.00	152.00
tblConstructionPhase	PhaseEndDate	6/4/2029	11/25/2021
tblConstructionPhase	PhaseEndDate	5/20/2037	11/16/2035
tblConstructionPhase	PhaseEndDate	12/2/2022	5/4/2022
tblConstructionPhase	PhaseEndDate	5/26/2043	5/9/2028
tblConstructionPhase	PhaseEndDate	5/20/2022	6/1/2021
tblConstructionPhase	PhaseStartDate	5/10/2028	11/1/2020
tblConstructionPhase	PhaseStartDate	5/5/2022	11/1/2020
tblConstructionPhase	PhaseStartDate	6/2/2021	11/1/2020
tblConstructionPhase	PhaseStartDate	11/17/2035	11/1/2020
tblConstructionPhase	PhaseStartDate	10/21/2021	11/1/2020
tblGrading	AcresOfGrading	982.50	387.50
tblLandUse	LandUseSquareFeet	1,213,310.00	1,213,305.00
tblLandUse	Population	1,779.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2035
tblTripsAndVMT	VendorTripNumber	342.00	334.00
tblTripsAndVMT	WorkerTripNumber	1,024.00	1,000.00
tblTripsAndVMT	WorkerTripNumber	205.00	200.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	2.5432	3.9763	4.9719	8.9300e-003	3.0756	0.1772	3.2529	1.5105	0.1641	1.6746	0.0000	714.3599	714.3599	0.1220	0.0000	716.9218
2021	13.3089	17.6648	24.9596	0.0484	4.5527	0.7649	5.3176	1.9037	0.7086	2.6123	0.0000	3,825.1879	3,825.1879	0.6069	0.0000	3,837.9326
2022	1.1912	7.6420	15.3321	0.0332	2.8667	0.2988	3.1656	1.0716	0.2772	1.3488	0.0000	2,545.2542	2,545.2542	0.2780	0.0000	2,551.0920
2023	0.9595	5.3351	13.2795	0.0304	1.4700	0.2003	1.6704	0.3969	0.1863	0.5831	0.0000	2,284.6259	2,284.6259	0.1978	0.0000	2,288.7795
2024	0.9273	5.1267	13.0427	0.0306	1.4815	0.1855	1.6669	0.4000	0.1724	0.5723	0.0000	2,290.5746	2,290.5746	0.1974	0.0000	2,294.7208
2025	0.8760	4.8216	12.5956	0.0305	1.4759	0.1674	1.6433	0.3985	0.1555	0.5540	0.0000	2,271.1519	2,271.1519	0.1950	0.0000	2,275.2476
2026	0.8552	4.7706	12.3485	0.0305	1.4760	0.1668	1.6428	0.3985	0.1550	0.5535	0.0000	2,261.5543	2,261.5543	0.1939	0.0000	2,265.6252
2027	0.8410	4.7426	12.1566	0.0305	1.4761	0.1670	1.6431	0.3985	0.1551	0.5537	0.0000	2,253.3540	2,253.3540	0.1929	0.0000	2,257.4047
2028	0.7490	3.9862	10.7005	0.0284	1.4591	0.1318	1.5909	0.3940	0.1227	0.5167	0.0000	2,065.1519	2,065.1519	0.1377	0.0000	2,068.0437
2029	0.6980	3.5860	9.8099	0.0274	1.4585	0.1133	1.5719	0.3939	0.1058	0.4997	0.0000	1,972.2990	1,972.2990	0.1079	0.0000	1,974.5654
2030	0.6779	2.9794	9.6800	0.0279	1.4586	0.0642	1.5228	0.3939	0.0607	0.4546	0.0000	2,007.4756	2,007.4756	0.0501	0.0000	2,008.5276
2031	0.6677	2.9577	9.5176	0.0279	1.4586	0.0642	1.5229	0.3939	0.0607	0.4546	0.0000	2,002.8388	2,002.8388	0.0493	0.0000	2,003.8749
2032	0.6593	2.9523	9.4454	0.0280	1.4643	0.0645	1.5288	0.3955	0.0610	0.4565	0.0000	2,006.8078	2,006.8078	0.0488	0.0000	2,007.8335
2033	0.6429	2.9157	9.2897	0.0278	1.4531	0.0641	1.5172	0.3925	0.0606	0.4530	0.0000	1,988.4662	1,988.4662	0.0479	0.0000	1,989.4717
2034	0.6354	2.9039	9.1948	0.0278	1.4532	0.0641	1.5173	0.3925	0.0606	0.4531	0.0000	1,985.9952	1,985.9952	0.0473	0.0000	1,986.9888
2035	0.5453	2.4727	8.0588	0.0246	1.2855	0.0501	1.3357	0.3472	0.0470	0.3942	0.0000	1,754.9982	1,754.9982	0.0406	0.0000	1,755.8498
Total	**26.7778**	**78.8335**	**184.3832**	**0.4631**	**29.3654**	**2.7444**	**32.1098**	**9.5815**	**2.5532**	**12.1347**	**0.0000**	**34,230.0953**	**34,230.0953**	**2.5135**	**0.0000**	**34,282.8795**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	2.5432	3.9762	4.9719	8.9300e-003	1.4653	0.1772	1.6425	0.6868	0.1641	0.8509	0.0000	714.3595	714.3595	0.1220	0.0000	716.9213
2021	13.3089	17.6648	24.9596	0.0484	2.8104	0.7649	3.5752	1.0498	0.7086	1.7583	0.0000	3,825.1857	3,825.1857	0.6069	0.0000	3,837.9304
2022	1.1912	7.6420	15.3321	0.0332	1.9604	0.2988	2.2592	0.6592	0.2772	0.9364	0.0000	2,545.2533	2,545.2533	0.2780	0.0000	2,551.0910
2023	0.9595	5.3351	13.2794	0.0304	1.3594	0.2003	1.5597	0.3697	0.1863	0.5560	0.0000	2,284.6252	2,284.6252	0.1978	0.0000	2,288.7788
2024	0.9273	5.1267	13.0427	0.0306	1.3700	0.1855	1.5555	0.3726	0.1724	0.5450	0.0000	2,290.5739	2,290.5739	0.1974	0.0000	2,294.7201
2025	0.8760	4.8216	12.5956	0.0305	1.3648	0.1674	1.5323	0.3712	0.1555	0.5268	0.0000	2,271.1512	2,271.1512	0.1950	0.0000	2,275.2470
2026	0.8552	4.7706	12.3485	0.0305	1.3649	0.1668	1.5318	0.3712	0.1550	0.5262	0.0000	2,261.5536	2,261.5536	0.1939	0.0000	2,265.6245
2027	0.8410	4.7426	12.1566	0.0305	1.3650	0.1670	1.5320	0.3713	0.1551	0.5264	0.0000	2,253.3534	2,253.3534	0.1929	0.0000	2,257.4041
2028	0.7490	3.9862	10.7005	0.0284	1.3493	0.1318	1.4811	0.3671	0.1227	0.4898	0.0000	2,065.1514	2,065.1514	0.1377	0.0000	2,068.0432
2029	0.6980	3.5860	9.8099	0.0274	1.3488	0.1133	1.4622	0.3670	0.1058	0.4727	0.0000	1,972.2987	1,972.2987	0.1079	0.0000	1,974.5650
2030	0.6779	2.9794	9.6800	0.0279	1.3489	0.0642	1.4131	0.3670	0.0607	0.4277	0.0000	2,007.4751	2,007.4751	0.0501	0.0000	2,008.5272
2031	0.6677	2.9577	9.5176	0.0279	1.3490	0.0642	1.4132	0.3670	0.0607	0.4277	0.0000	2,002.8384	2,002.8384	0.0493	0.0000	2,003.8745
2032	0.6593	2.9523	9.4454	0.0280	1.3542	0.0645	1.4187	0.3684	0.0610	0.4294	0.0000	2,006.8074	2,006.8074	0.0488	0.0000	2,007.8331
2033	0.6429	2.9157	9.2897	0.0278	1.3439	0.0641	1.4080	0.3656	0.0606	0.4262	0.0000	1,988.4658	1,988.4658	0.0479	0.0000	1,989.4713
2034	0.6354	2.9039	9.1948	0.0278	1.3439	0.0641	1.4080	0.3657	0.0606	0.4262	0.0000	1,985.9948	1,985.9948	0.0473	0.0000	1,986.9884
2035	0.5453	2.4727	8.0588	0.0246	1.1889	0.0501	1.2390	0.3235	0.0470	0.3705	0.0000	1,754.9979	1,754.9979	0.0406	0.0000	1,755.8495
Total	**26.7778**	**78.8334**	**184.3832**	**0.4631**	**23.6870**	**2.7444**	**26.4314**	**7.1430**	**2.5532**	**9.6962**	**0.0000**	**34,230.0852**	**34,230.0852**	**2.5135**	**0.0000**	**34,282.8694**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**19.34**	**0.00**	**17.68**	**25.45**	**0.00**	**20.10**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2020	10/20/2021	5	253	
2	Site Preparation	Site Preparation	11/1/2020	6/1/2021	5	152	
3	Grading	Grading	11/1/2020	5/4/2022	5	393	
4	Building Construction	Building Construction	11/1/2020	11/16/2035	5	3925	
5	Paving	Paving	11/1/2020	5/9/2028	5	1962	
6	Architectural Coating	Architectural Coating	11/1/2020	11/25/2021	5	279	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 387.5

Acres of Paving: 0

Residential Indoor: 1,259,550; Residential Outdoor: 419,850; Non-Residential Indoor: 2,525,720; Non-Residential Outdoor: 841,907

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	162	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Grading	Excavators	2	8.00	162	0.38
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	125	0.42
Paving	Paving Equipment	2	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	580.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,000.00	334.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	200.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0109	0.0000	0.0109	1.6500e-003	0.0000	1.6500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0681	0.6823	0.6514	8.8000e-004		0.0328	0.0328		0.0305	0.0305	0.0000	76.9811	76.9811	0.0218	0.0000	77.4393
Total	**0.0681**	**0.6823**	**0.6514**	**8.8000e-004**	**0.0109**	**0.0328**	**0.0437**	**1.6500e-003**	**0.0305**	**0.0322**	**0.0000**	**76.9811**	**76.9811**	**0.0218**	**0.0000**	**77.4393**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-003	9.9900e-003	0.0148	4.0000e-005	3.8600e-003	1.6000e-004	4.0200e-003	9.7000e-004	1.5000e-004	1.1200e-003	0.0000	3.1119	3.1119	2.0000e-005	0.0000	3.1124
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	1.2600e-003	0.0118	3.0000e-005	2.9800e-003	2.0000e-005	3.0000e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.3109	2.3109	1.1000e-004	0.0000	2.3132
Total	**1.8000e-003**	**0.0113**	**0.0266**	**7.0000e-005**	**6.8400e-003**	**1.8000e-004**	**7.0200e-003**	**1.7600e-003**	**1.7000e-004**	**1.9300e-003**	**0.0000**	**5.4229**	**5.4229**	**1.3000e-004**	**0.0000**	**5.4257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.6600e-003	0.0000	4.6600e-003	7.1000e-004	0.0000	7.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0681	0.6823	0.6514	8.8000e-004		0.0328	0.0328		0.0305	0.0305	0.0000	76.9810	76.9810	0.0218	0.0000	77.4392
Total	**0.0681**	**0.6823**	**0.6514**	**8.8000e-004**	**4.6600e-003**	**0.0328**	**0.0374**	**7.1000e-004**	**0.0305**	**0.0312**	**0.0000**	**76.9810**	**76.9810**	**0.0218**	**0.0000**	**77.4392**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-003	9.9900e-003	0.0148	4.0000e-005	3.5300e-003	1.6000e-004	3.6900e-003	8.9000e-004	1.5000e-004	1.0400e-003	0.0000	3.1119	3.1119	2.0000e-005	0.0000	3.1124
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	1.2600e-003	0.0118	3.0000e-005	2.7500e-003	2.0000e-005	2.7700e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.3109	2.3109	1.1000e-004	0.0000	2.3132
Total	**1.8000e-003**	**0.0113**	**0.0266**	**7.0000e-005**	**6.2800e-003**	**1.8000e-004**	**6.4600e-003**	**1.6300e-003**	**1.7000e-004**	**1.8000e-003**	**0.0000**	**5.4229**	**5.4229**	**1.3000e-004**	**0.0000**	**5.4257**

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0518	0.0000	0.0518	7.8400e-003	0.0000	7.8400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2990	2.9200	2.9550	4.1700e-003		0.1389	0.1389		0.1293	0.1293	0.0000	365.4190	365.4190	0.1033	0.0000	367.5877
Total	**0.2990**	**2.9200**	**2.9550**	**4.1700e-003**	**0.0518**	**0.1389**	**0.1907**	**7.8400e-003**	**0.1293**	**0.1371**	**0.0000**	**365.4190**	**365.4190**	**0.1033**	**0.0000**	**367.5877**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6400e-003	0.0400	0.0690	1.7000e-004	4.6300e-003	7.4000e-004	5.3800e-003	1.2500e-003	6.9000e-004	1.9400e-003	0.0000	14.7825	14.7825	1.1000e-004	0.0000	14.7849
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5800e-003	5.5800e-003	0.0524	1.7000e-004	0.0142	1.0000e-004	0.0143	3.7700e-003	9.0000e-005	3.8600e-003	0.0000	10.7826	10.7826	4.9000e-004	0.0000	10.7930
Total	**8.2200e-003**	**0.0456**	**0.1214**	**3.4000e-004**	**0.0188**	**8.4000e-004**	**0.0197**	**5.0200e-003**	**7.8000e-004**	**5.8000e-003**	**0.0000**	**25.5651**	**25.5651**	**6.0000e-004**	**0.0000**	**25.5779**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0222	0.0000	0.0222	3.3500e-003	0.0000	3.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2990	2.9200	2.9550	4.1700e-003		0.1389	0.1389		0.1293	0.1293	0.0000	365.4185	365.4185	0.1033	0.0000	367.5873
Total	**0.2990**	**2.9200**	**2.9550**	**4.1700e-003**	**0.0222**	**0.1389**	**0.1611**	**3.3500e-003**	**0.1293**	**0.1326**	**0.0000**	**365.4185**	**365.4185**	**0.1033**	**0.0000**	**367.5873**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6400e-003	0.0400	0.0690	1.7000e-004	4.3100e-003	7.4000e-004	5.0500e-003	1.1700e-003	6.9000e-004	1.8600e-003	0.0000	14.7825	14.7825	1.1000e-004	0.0000	14.7849
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5800e-003	5.5800e-003	0.0524	1.7000e-004	0.0131	1.0000e-004	0.0132	3.5000e-003	9.0000e-005	3.5900e-003	0.0000	10.7826	10.7826	4.9000e-004	0.0000	10.7930
Total	**8.2200e-003**	**0.0456**	**0.1214**	**3.4000e-004**	**0.0174**	**8.4000e-004**	**0.0182**	**4.6700e-003**	**7.8000e-004**	**5.4500e-003**	**0.0000**	**25.5651**	**25.5651**	**6.0000e-004**	**0.0000**	**25.5779**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3730	0.0000	1.3730	0.7547	0.0000	0.7547	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0820	0.8550	0.7244	8.6000e-004		0.0425	0.0425		0.0391	0.0391	0.0000	75.6866	75.6866	0.0245	0.0000	76.2007
Total	**0.0820**	**0.8550**	**0.7244**	**8.6000e-004**	**1.3730**	**0.0425**	**1.4155**	**0.7547**	**0.0391**	**0.7938**	**0.0000**	**75.6866**	**75.6866**	**0.0245**	**0.0000**	**76.2007**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	1.5100e-003	0.0141	4.0000e-005	3.5800e-003	3.0000e-005	3.6000e-003	9.5000e-004	2.0000e-005	9.8000e-004	0.0000	2.7731	2.7731	1.3000e-004	0.0000	2.7759
Total	**9.6000e-004**	**1.5100e-003**	**0.0141**	**4.0000e-005**	**3.5800e-003**	**3.0000e-005**	**3.6000e-003**	**9.5000e-004**	**2.0000e-005**	**9.8000e-004**	**0.0000**	**2.7731**	**2.7731**	**1.3000e-004**	**0.0000**	**2.7759**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5870	0.0000	0.5870	0.3227	0.0000	0.3227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0820	0.8550	0.7244	8.6000e-004		0.0425	0.0425		0.0391	0.0391	0.0000	75.6865	75.6865	0.0245	0.0000	76.2006
Total	**0.0820**	**0.8550**	**0.7244**	**8.6000e-004**	**0.5870**	**0.0425**	**0.6295**	**0.3227**	**0.0391**	**0.3617**	**0.0000**	**75.6865**	**75.6865**	**0.0245**	**0.0000**	**76.2006**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	1.5100e-003	0.0141	4.0000e-005	3.3000e-003	3.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.1000e-004	0.0000	2.7731	2.7731	1.3000e-004	0.0000	2.7759
Total	**9.6000e-004**	**1.5100e-003**	**0.0141**	**4.0000e-005**	**3.3000e-003**	**3.0000e-005**	**3.3300e-003**	**8.8000e-004**	**2.0000e-005**	**9.1000e-004**	**0.0000**	**2.7731**	**2.7731**	**1.3000e-004**	**0.0000**	**2.7759**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3730	0.0000	1.3730	0.7547	0.0000	0.7547	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1839	1.8903	1.6659	2.1100e-003		0.0918	0.0918		0.0844	0.0844	0.0000	185.5984	185.5984	0.0600	0.0000	186.8589
Total	**0.1839**	**1.8903**	**1.6659**	**2.1100e-003**	**1.3730**	**0.0918**	**1.4648**	**0.7547**	**0.0844**	**0.8392**	**0.0000**	**185.5984**	**185.5984**	**0.0600**	**0.0000**	**186.8589**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	3.4600e-003	0.0325	1.0000e-004	8.7800e-003	6.0000e-005	8.8500e-003	2.3400e-003	6.0000e-005	2.4000e-003	0.0000	6.6863	6.6863	3.1000e-004	0.0000	6.6927
Total	**2.2200e-003**	**3.4600e-003**	**0.0325**	**1.0000e-004**	**8.7800e-003**	**6.0000e-005**	**8.8500e-003**	**2.3400e-003**	**6.0000e-005**	**2.4000e-003**	**0.0000**	**6.6863**	**6.6863**	**3.1000e-004**	**0.0000**	**6.6927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5870	0.0000	0.5870	0.3227	0.0000	0.3227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1839	1.8903	1.6659	2.1100e-003		0.0918	0.0918		0.0844	0.0844	0.0000	185.5982	185.5982	0.0600	0.0000	186.8587
Total	**0.1839**	**1.8903**	**1.6659**	**2.1100e-003**	**0.5870**	**0.0918**	**0.6787**	**0.3227**	**0.0844**	**0.4071**	**0.0000**	**185.5982**	**185.5982**	**0.0600**	**0.0000**	**186.8587**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	3.4600e-003	0.0325	1.0000e-004	8.1000e-003	6.0000e-005	8.1600e-003	2.1700e-003	6.0000e-005	2.2300e-003	0.0000	6.6863	6.6863	3.1000e-004	0.0000	6.6927
Total	**2.2200e-003**	**3.4600e-003**	**0.0325**	**1.0000e-004**	**8.1000e-003**	**6.0000e-005**	**8.1600e-003**	**2.1700e-003**	**6.0000e-005**	**2.2300e-003**	**0.0000**	**6.6863**	**6.6863**	**3.1000e-004**	**0.0000**	**6.6927**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3888	0.0000	1.3888	0.6727	0.0000	0.6727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1001	1.0865	0.8454	1.3600e-003		0.0498	0.0498		0.0458	0.0458	0.0000	119.3035	119.3035	0.0386	0.0000	120.1138
Total	**0.1001**	**1.0865**	**0.8454**	**1.3600e-003**	**1.3888**	**0.0498**	**1.4386**	**0.6727**	**0.0458**	**0.7184**	**0.0000**	**119.3035**	**119.3035**	**0.0386**	**0.0000**	**120.1138**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	1.6800e-003	0.0157	5.0000e-005	3.9800e-003	3.0000e-005	4.0000e-003	1.0600e-003	3.0000e-005	1.0800e-003	0.0000	3.0813	3.0813	1.5000e-004	0.0000	3.0843
Total	**1.0600e-003**	**1.6800e-003**	**0.0157**	**5.0000e-005**	**3.9800e-003**	**3.0000e-005**	**4.0000e-003**	**1.0600e-003**	**3.0000e-005**	**1.0800e-003**	**0.0000**	**3.0813**	**3.0813**	**1.5000e-004**	**0.0000**	**3.0843**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5937	0.0000	0.5937	0.2876	0.0000	0.2876	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1001	1.0865	0.8454	1.3600e-003		0.0498	0.0498		0.0458	0.0458	0.0000	119.3034	119.3034	0.0386	0.0000	120.1136
Total	**0.1001**	**1.0865**	**0.8454**	**1.3600e-003**	**0.5937**	**0.0498**	**0.6435**	**0.2876**	**0.0458**	**0.3333**	**0.0000**	**119.3034**	**119.3034**	**0.0386**	**0.0000**	**120.1136**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	1.6800e-003	0.0157	5.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.0813	3.0813	1.5000e-004	0.0000	3.0843
Total	**1.0600e-003**	**1.6800e-003**	**0.0157**	**5.0000e-005**	**3.6700e-003**	**3.0000e-005**	**3.7000e-003**	**9.8000e-004**	**3.0000e-005**	**1.0100e-003**	**0.0000**	**3.0813**	**3.0813**	**1.5000e-004**	**0.0000**	**3.0843**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3888	0.0000	1.3888	0.6727	0.0000	0.6727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5474	5.8063	4.7969	8.0600e-003		0.2628	0.2628		0.2418	0.2418	0.0000	707.8532	707.8532	0.2289	0.0000	712.6608
Total	**0.5474**	**5.8063**	**4.7969**	**8.0600e-003**	**1.3888**	**0.2628**	**1.6516**	**0.6727**	**0.2418**	**0.9145**	**0.0000**	**707.8532**	**707.8532**	**0.2289**	**0.0000**	**712.6608**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9600e-003	9.2800e-003	0.0872	2.8000e-004	0.0236	1.7000e-004	0.0238	6.2800e-003	1.6000e-004	6.4300e-003	0.0000	17.9539	17.9539	8.2000e-004	0.0000	17.9711
Total	**5.9600e-003**	**9.2800e-003**	**0.0872**	**2.8000e-004**	**0.0236**	**1.7000e-004**	**0.0238**	**6.2800e-003**	**1.6000e-004**	**6.4300e-003**	**0.0000**	**17.9539**	**17.9539**	**8.2000e-004**	**0.0000**	**17.9711**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5937	0.0000	0.5937	0.2876	0.0000	0.2876	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5474	5.8063	4.7969	8.0600e-003		0.2628	0.2628		0.2418	0.2418	0.0000	707.8524	707.8524	0.2289	0.0000	712.6600
Total	**0.5474**	**5.8063**	**4.7969**	**8.0600e-003**	**0.5937**	**0.2628**	**0.8566**	**0.2876**	**0.2418**	**0.5294**	**0.0000**	**707.8524**	**707.8524**	**0.2289**	**0.0000**	**712.6600**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9600e-003	9.2800e-003	0.0872	2.8000e-004	0.0218	1.7000e-004	0.0219	5.8300e-003	1.6000e-004	5.9800e-003	0.0000	17.9539	17.9539	8.2000e-004	0.0000	17.9711
Total	**5.9600e-003**	**9.2800e-003**	**0.0872**	**2.8000e-004**	**0.0218**	**1.7000e-004**	**0.0219**	**5.8300e-003**	**1.6000e-004**	**5.9800e-003**	**0.0000**	**17.9539**	**17.9539**	**8.2000e-004**	**0.0000**	**17.9711**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.3888	0.0000	1.3888	0.6727	0.0000	0.6727	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1656	1.6909	1.5442	2.7200e-003		0.0760	0.0760		0.0699	0.0699	0.0000	238.8880	238.8880	0.0773	0.0000	240.5105
Total	**0.1656**	**1.6909**	**1.5442**	**2.7200e-003**	**1.3888**	**0.0760**	**1.4648**	**0.6727**	**0.0699**	**0.7426**	**0.0000**	**238.8880**	**238.8880**	**0.0773**	**0.0000**	**240.5105**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9100e-003	2.9300e-003	0.0276	9.0000e-005	7.9500e-003	6.0000e-005	8.0100e-003	2.1200e-003	5.0000e-005	2.1700e-003	0.0000	5.9520	5.9520	2.6000e-004	0.0000	5.9575
Total	**1.9100e-003**	**2.9300e-003**	**0.0276**	**9.0000e-005**	**7.9500e-003**	**6.0000e-005**	**8.0100e-003**	**2.1200e-003**	**5.0000e-005**	**2.1700e-003**	**0.0000**	**5.9520**	**5.9520**	**2.6000e-004**	**0.0000**	**5.9575**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5937	0.0000	0.5937	0.2876	0.0000	0.2876	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1656	1.6909	1.5442	2.7200e-003		0.0760	0.0760		0.0699	0.0699	0.0000	238.8877	238.8877	0.0773	0.0000	240.5102
Total	**0.1656**	**1.6909**	**1.5442**	**2.7200e-003**	**0.5937**	**0.0760**	**0.6697**	**0.2876**	**0.0699**	**0.3575**	**0.0000**	**238.8877**	**238.8877**	**0.0773**	**0.0000**	**240.5102**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9100e-003	2.9300e-003	0.0276	9.0000e-005	7.3300e-003	6.0000e-005	7.3900e-003	1.9600e-003	5.0000e-005	2.0200e-003	0.0000	5.9520	5.9520	2.6000e-004	0.0000	5.9575
Total	**1.9100e-003**	**2.9300e-003**	**0.0276**	**9.0000e-005**	**7.3300e-003**	**6.0000e-005**	**7.3900e-003**	**1.9600e-003**	**5.0000e-005**	**2.0200e-003**	**0.0000**	**5.9520**	**5.9520**	**2.6000e-004**	**0.0000**	**5.9575**

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4199	0.3698	5.9000e-004		0.0245	0.0245		0.0230	0.0230	0.0000	50.7430	50.7430	0.0124	0.0000	51.0026
Total	**0.0465**	**0.4199**	**0.3698**	**5.9000e-004**		**0.0245**	**0.0245**		**0.0230**	**0.0230**	**0.0000**	**50.7430**	**50.7430**	**0.0124**	**0.0000**	**51.0026**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0684	0.4759	1.0139	1.7100e-003	0.0469	7.0600e-003	0.0540	0.0135	6.5000e-003	0.0199	0.0000	144.4408	144.4408	1.1000e-003	0.0000	144.4638
Worker	0.0531	0.0839	0.7857	2.3300e-003	0.1988	1.4300e-003	0.2003	0.0529	1.3200e-003	0.0542	0.0000	154.0626	154.0626	7.2900e-003	0.0000	154.2157
Total	**0.1215**	**0.5598**	**1.7996**	**4.0400e-003**	**0.2457**	**8.4900e-003**	**0.2542**	**0.0664**	**7.8200e-003**	**0.0742**	**0.0000**	**298.5034**	**298.5034**	**8.3900e-003**	**0.0000**	**298.6795**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0465	0.4199	0.3698	5.9000e-004		0.0245	0.0245		0.0230	0.0230	0.0000	50.7429	50.7429	0.0124	0.0000	51.0025
Total	**0.0465**	**0.4199**	**0.3698**	**5.9000e-004**		**0.0245**	**0.0245**		**0.0230**	**0.0230**	**0.0000**	**50.7429**	**50.7429**	**0.0124**	**0.0000**	**51.0025**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0684	0.4759	1.0139	1.7100e-003	0.0439	7.0600e-003	0.0509	0.0127	6.5000e-003	0.0192	0.0000	144.4408	144.4408	1.1000e-003	0.0000	144.4638
Worker	0.0531	0.0839	0.7857	2.3300e-003	0.1834	1.4300e-003	0.1848	0.0491	1.3200e-003	0.0504	0.0000	154.0626	154.0626	7.2900e-003	0.0000	154.2157
Total	**0.1215**	**0.5598**	**1.7996**	**4.0400e-003**	**0.2273**	**8.4900e-003**	**0.2357**	**0.0618**	**7.8200e-003**	**0.0696**	**0.0000**	**298.5034**	**298.5034**	**8.3900e-003**	**0.0000**	**298.6795**

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2471	2.2629	2.1582	3.5000e-003		0.1246	0.1246		0.1172	0.1172	0.0000	301.0339	301.0339	0.0725	0.0000	302.5568
Total	**0.2471**	**2.2629**	**2.1582**	**3.5000e-003**		**0.1246**	**0.1246**		**0.1172**	**0.1172**	**0.0000**	**301.0339**	**301.0339**	**0.0725**	**0.0000**	**302.5568**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3891	2.3406	5.8437	0.0101	0.2784	0.0377	0.3161	0.0798	0.0347	0.1145	0.0000	856.5178	856.5178	6.4900e-003	0.0000	856.6542
Worker	0.2982	0.4642	4.3614	0.0138	1.1794	8.4400e-003	1.1878	0.3138	7.8300e-003	0.3216	0.0000	897.6934	897.6934	0.0411	0.0000	898.5567
Total	**0.6873**	**2.8048**	**10.2051**	**0.0239**	**1.4578**	**0.0461**	**1.5039**	**0.3936**	**0.0425**	**0.4361**	**0.0000**	**1,754.2113**	**1,754.2113**	**0.0476**	**0.0000**	**1,755.2109**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2471	2.2629	2.1582	3.5000e-003		0.1246	0.1246		0.1172	0.1172	0.0000	301.0335	301.0335	0.0725	0.0000	302.5565
Total	**0.2471**	**2.2629**	**2.1582**	**3.5000e-003**		**0.1246**	**0.1246**		**0.1172**	**0.1172**	**0.0000**	**301.0335**	**301.0335**	**0.0725**	**0.0000**	**302.5565**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3891	2.3406	5.8437	0.0101	0.2604	0.0377	0.2981	0.0754	0.0347	0.1101	0.0000	856.5178	856.5178	6.4900e-003	0.0000	856.6542
Worker	0.2982	0.4642	4.3614	0.0138	1.0877	8.4400e-003	1.0962	0.2913	7.8300e-003	0.2991	0.0000	897.6934	897.6934	0.0411	0.0000	898.5567
Total	**0.6873**	**2.8048**	**10.2051**	**0.0239**	**1.3481**	**0.0461**	**1.3943**	**0.3667**	**0.0425**	**0.4092**	**0.0000**	**1,754.2113**	**1,754.2113**	**0.0476**	**0.0000**	**1,755.2109**

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Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2209	2.0197	2.1226	3.4900e-003		0.1047	0.1047		0.0986	0.0986	0.0000	299.9946	299.9946	0.0718	0.0000	301.5017
Total	**0.2209**	**2.0197**	**2.1226**	**3.4900e-003**		**0.1047**	**0.1047**		**0.0986**	**0.0986**	**0.0000**	**299.9946**	**299.9946**	**0.0718**	**0.0000**	**301.5017**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3760	2.0704	5.6436	0.0101	0.2775	0.0370	0.3145	0.0795	0.0341	0.1136	0.0000	853.1443	853.1443	6.6100e-003	0.0000	853.2832
Worker	0.2820	0.4332	4.0764	0.0137	1.1749	8.4000e-003	1.1832	0.3126	7.7900e-003	0.3204	0.0000	879.2678	879.2678	0.0391	0.0000	880.0886
Total	**0.6579**	**2.5036**	**9.7200**	**0.0238**	**1.4523**	**0.0454**	**1.4977**	**0.3921**	**0.0419**	**0.4340**	**0.0000**	**1,732.4122**	**1,732.4122**	**0.0457**	**0.0000**	**1,733.3718**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2209	2.0197	2.1226	3.4900e-003		0.1047	0.1047		0.0986	0.0986	0.0000	299.9943	299.9943	0.0718	0.0000	301.5013
Total	**0.2209**	**2.0197**	**2.1226**	**3.4900e-003**		**0.1047**	**0.1047**		**0.0986**	**0.0986**	**0.0000**	**299.9943**	**299.9943**	**0.0718**	**0.0000**	**301.5013**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3760	2.0704	5.6436	0.0101	0.2595	0.0370	0.2965	0.0751	0.0341	0.1092	0.0000	853.1443	853.1443	6.6100e-003	0.0000	853.2832
Worker	0.2820	0.4332	4.0764	0.0137	1.0835	8.4000e-003	1.0919	0.2902	7.7900e-003	0.2980	0.0000	879.2678	879.2678	0.0391	0.0000	880.0886
Total	**0.6579**	**2.5036**	**9.7200**	**0.0238**	**1.3431**	**0.0454**	**1.3885**	**0.3653**	**0.0419**	**0.4072**	**0.0000**	**1,732.4122**	**1,732.4122**	**0.0457**	**0.0000**	**1,733.3718**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2036	1.8606	2.1072	3.4900e-003		0.0906	0.0906		0.0852	0.0852	0.0000	300.0980	300.0980	0.0713	0.0000	301.5949
Total	**0.2036**	**1.8606**	**2.1072**	**3.4900e-003**		**0.0906**	**0.0906**		**0.0852**	**0.0852**	**0.0000**	**300.0980**	**300.0980**	**0.0713**	**0.0000**	**301.5949**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3525	1.7618	5.4309	0.0101	0.2776	0.0361	0.3137	0.0796	0.0332	0.1128	0.0000	851.2753	851.2753	6.1300e-003	0.0000	851.4039
Worker	0.2677	0.4068	3.8269	0.0137	1.1749	8.3800e-003	1.1832	0.3126	7.7800e-003	0.3204	0.0000	865.4608	865.4608	0.0374	0.0000	866.2465
Total	**0.6203**	**2.1686**	**9.2578**	**0.0238**	**1.4524**	**0.0445**	**1.4969**	**0.3922**	**0.0410**	**0.4332**	**0.0000**	**1,716.7361**	**1,716.7361**	**0.0435**	**0.0000**	**1,717.6504**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2036	1.8606	2.1072	3.4900e-003		0.0906	0.0906		0.0852	0.0852	0.0000	300.0976	300.0976	0.0713	0.0000	301.5946
Total	**0.2036**	**1.8606**	**2.1072**	**3.4900e-003**		**0.0906**	**0.0906**		**0.0852**	**0.0852**	**0.0000**	**300.0976**	**300.0976**	**0.0713**	**0.0000**	**301.5946**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3525	1.7618	5.4309	0.0101	0.2596	0.0361	0.2957	0.0752	0.0332	0.1084	0.0000	851.2753	851.2753	6.1300e-003	0.0000	851.4039
Worker	0.2677	0.4068	3.8269	0.0137	1.0835	8.3800e-003	1.0919	0.2902	7.7800e-003	0.2980	0.0000	865.4608	865.4608	0.0374	0.0000	866.2465
Total	**0.6203**	**2.1686**	**9.2578**	**0.0238**	**1.3431**	**0.0445**	**1.3876**	**0.3654**	**0.0410**	**0.4064**	**0.0000**	**1,716.7361**	**1,716.7361**	**0.0435**	**0.0000**	**1,717.6504**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1920	1.7524	2.1135	3.5200e-003		0.0800	0.0800		0.0752	0.0752	0.0000	302.4646	302.4646	0.0714	0.0000	303.9643
Total	**0.1920**	**1.7524**	**2.1135**	**3.5200e-003**		**0.0800**	**0.0800**		**0.0752**	**0.0752**	**0.0000**	**302.4646**	**302.4646**	**0.0714**	**0.0000**	**303.9643**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3477	1.7574	5.3522	0.0101	0.2798	0.0367	0.3165	0.0802	0.0337	0.1140	0.0000	858.9473	858.9473	6.2100e-003	0.0000	859.0777
Worker	0.2569	0.3869	3.6458	0.0138	1.1839	8.4500e-003	1.1923	0.3150	7.8400e-003	0.3229	0.0000	859.5041	859.5041	0.0362	0.0000	860.2649
Total	**0.6046**	**2.1443**	**8.9979**	**0.0240**	**1.4637**	**0.0451**	**1.5088**	**0.3952**	**0.0416**	**0.4368**	**0.0000**	**1,718.4514**	**1,718.4514**	**0.0424**	**0.0000**	**1,719.3426**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1920	1.7524	2.1135	3.5200e-003		0.0800	0.0800		0.0752	0.0752	0.0000	302.4642	302.4642	0.0714	0.0000	303.9639
Total	**0.1920**	**1.7524**	**2.1135**	**3.5200e-003**		**0.0800**	**0.0800**		**0.0752**	**0.0752**	**0.0000**	**302.4642**	**302.4642**	**0.0714**	**0.0000**	**303.9639**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3477	1.7574	5.3522	0.0101	0.2617	0.0367	0.2984	0.0758	0.0337	0.1095	0.0000	858.9473	858.9473	6.2100e-003	0.0000	859.0777
Worker	0.2569	0.3869	3.6458	0.0138	1.0919	8.4500e-003	1.1003	0.2924	7.8400e-003	0.3003	0.0000	859.5041	859.5041	0.0362	0.0000	860.2649
Total	**0.6046**	**2.1443**	**8.9979**	**0.0240**	**1.3536**	**0.0451**	**1.3987**	**0.3682**	**0.0416**	**0.4098**	**0.0000**	**1,718.4514**	**1,718.4514**	**0.0424**	**0.0000**	**1,719.3426**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6195	2.0948	3.5000e-003		0.0685	0.0685		0.0645	0.0645	0.0000	301.4019	301.4019	0.0707	0.0000	302.8874
Total	**0.1777**	**1.6195**	**2.0948**	**3.5000e-003**		**0.0685**	**0.0685**		**0.0645**	**0.0645**	**0.0000**	**301.4019**	**301.4019**	**0.0707**	**0.0000**	**302.8874**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3322	1.7315	5.1259	0.0101	0.2788	0.0367	0.3156	0.0800	0.0338	0.1137	0.0000	856.3726	856.3726	6.2100e-003	0.0000	856.5030
Worker	0.2453	0.3662	3.4598	0.0138	1.1794	8.4500e-003	1.1878	0.3138	7.8400e-003	0.3217	0.0000	845.0091	845.0091	0.0349	0.0000	845.7413
Total	**0.5776**	**2.0976**	**8.5857**	**0.0239**	**1.4582**	**0.0452**	**1.5034**	**0.3938**	**0.0416**	**0.4354**	**0.0000**	**1,701.3817**	**1,701.3817**	**0.0411**	**0.0000**	**1,702.2443**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6195	2.0948	3.5000e-003		0.0685	0.0685		0.0645	0.0645	0.0000	301.4015	301.4015	0.0707	0.0000	302.8871
Total	**0.1777**	**1.6195**	**2.0948**	**3.5000e-003**		**0.0685**	**0.0685**		**0.0645**	**0.0645**	**0.0000**	**301.4015**	**301.4015**	**0.0707**	**0.0000**	**302.8871**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3322	1.7315	5.1259	0.0101	0.2608	0.0367	0.2975	0.0755	0.0338	0.1093	0.0000	856.3726	856.3726	6.2100e-003	0.0000	856.5030
Worker	0.2453	0.3662	3.4598	0.0138	1.0877	8.4500e-003	1.0962	0.2913	7.8400e-003	0.2992	0.0000	845.0091	845.0091	0.0349	0.0000	845.7413
Total	**0.5776**	**2.0976**	**8.5857**	**0.0239**	**1.3485**	**0.0452**	**1.3937**	**0.3668**	**0.0416**	**0.4085**	**0.0000**	**1,701.3817**	**1,701.3817**	**0.0411**	**0.0000**	**1,702.2443**

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6195	2.0948	3.5000e-003		0.0685	0.0685		0.0645	0.0645	0.0000	301.4019	301.4019	0.0707	0.0000	302.8874
Total	**0.1777**	**1.6195**	**2.0948**	**3.5000e-003**		**0.0685**	**0.0685**		**0.0645**	**0.0645**	**0.0000**	**301.4019**	**301.4019**	**0.0707**	**0.0000**	**302.8874**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3211	1.6974	5.0311	0.0101	0.2789	0.0361	0.3150	0.0800	0.0332	0.1132	0.0000	856.8043	856.8043	6.1300e-003	0.0000	856.9330
Worker	0.2357	0.3495	3.3097	0.0138	1.1794	8.5100e-003	1.1879	0.3138	7.9000e-003	0.3217	0.0000	835.1280	835.1280	0.0338	0.0000	835.8374
Total	**0.5569**	**2.0469**	**8.3408**	**0.0239**	**1.4583**	**0.0446**	**1.5029**	**0.3938**	**0.0411**	**0.4349**	**0.0000**	**1,691.9323**	**1,691.9323**	**0.0399**	**0.0000**	**1,692.7704**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6195	2.0948	3.5000e-003		0.0685	0.0685		0.0645	0.0645	0.0000	301.4015	301.4015	0.0707	0.0000	302.8871
Total	**0.1777**	**1.6195**	**2.0948**	**3.5000e-003**		**0.0685**	**0.0685**		**0.0645**	**0.0645**	**0.0000**	**301.4015**	**301.4015**	**0.0707**	**0.0000**	**302.8871**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3211	1.6974	5.0311	0.0101	0.2609	0.0361	0.2970	0.0756	0.0332	0.1087	0.0000	856.8043	856.8043	6.1300e-003	0.0000	856.9330
Worker	0.2357	0.3495	3.3097	0.0138	1.0877	8.5100e-003	1.0962	0.2913	7.9000e-003	0.2992	0.0000	835.1280	835.1280	0.0338	0.0000	835.8374
Total	**0.5569**	**2.0469**	**8.3408**	**0.0239**	**1.3486**	**0.0446**	**1.3932**	**0.3669**	**0.0411**	**0.4080**	**0.0000**	**1,691.932**	**1,691.9323**	**0.0399**	**0.0000**	**1,692.770**

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6195	2.0948	3.5000e-003		0.0685	0.0685		0.0645	0.0645	0.0000	301.4019	301.4019	0.0707	0.0000	302.8874
Total	**0.1777**	**1.6195**	**2.0948**	**3.5000e-003**		**0.0685**	**0.0685**		**0.0645**	**0.0645**	**0.0000**	**301.4019**	**301.4019**	**0.0707**	**0.0000**	**302.8874**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3160	1.6844	4.9726	0.0101	0.2790	0.0362	0.3152	0.0800	0.0333	0.1133	0.0000	857.4370	857.4370	6.1400e-003	0.0000	857.5660
Worker	0.2269	0.3346	3.1784	0.0138	1.1794	8.5600e-003	1.1879	0.3138	7.9400e-003	0.3218	0.0000	826.4256	826.4256	0.0328	0.0000	827.1148
Total	**0.5428**	**2.0191**	**8.1509**	**0.0239**	**1.4584**	**0.0447**	**1.5031**	**0.3938**	**0.0412**	**0.4351**	**0.0000**	**1,683.8626**	**1,683.8626**	**0.0390**	**0.0000**	**1,684.6808**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6195	2.0948	3.5000e-003		0.0685	0.0685		0.0645	0.0645	0.0000	301.4015	301.4015	0.0707	0.0000	302.8871
Total	**0.1777**	**1.6195**	**2.0948**	**3.5000e-003**		**0.0685**	**0.0685**		**0.0645**	**0.0645**	**0.0000**	**301.4015**	**301.4015**	**0.0707**	**0.0000**	**302.8871**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3160	1.6844	4.9726	0.0101	0.2610	0.0362	0.2971	0.0756	0.0333	0.1089	0.0000	857.4370	857.4370	6.1400e-003	0.0000	857.5660
Worker	0.2269	0.3346	3.1784	0.0138	1.0877	8.5600e-003	1.0963	0.2913	7.9400e-003	0.2993	0.0000	826.4256	826.4256	0.0328	0.0000	827.1148
Total	**0.5428**	**2.0191**	**8.1509**	**0.0239**	**1.3487**	**0.0447**	**1.3934**	**0.3669**	**0.0412**	**0.4081**	**0.0000**	**1,683.8626**	**1,683.8626**	**0.0390**	**0.0000**	**1,684.6808**

3.5 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1770	1.6133	2.0867	3.4900e-003		0.0683	0.0683		0.0642	0.0642	0.0000	300.2471	300.2471	0.0705	0.0000	301.7269
Total	**0.1770**	**1.6133**	**2.0867**	**3.4900e-003**		**0.0683**	**0.0683**		**0.0642**	**0.0642**	**0.0000**	**300.2471**	**300.2471**	**0.0705**	**0.0000**	**301.7269**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3119	1.6647	4.8953	0.0101	0.2780	0.0360	0.3140	0.0797	0.0331	0.1129	0.0000	854.7564	854.7564	6.1200e-003	0.0000	854.8849
Worker	0.2177	0.3192	3.0455	0.0137	1.1749	8.5700e-003	1.1834	0.3126	7.9500e-003	0.3206	0.0000	815.6895	815.6895	0.0318	0.0000	816.3573
Total	**0.5295**	**1.9839**	**7.9408**	**0.0238**	**1.4529**	**0.0446**	**1.4974**	**0.3924**	**0.0411**	**0.4334**	**0.0000**	**1,670.445**	**1,670.4459**	**0.0379**	**0.0000**	**1,671.242**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1770	1.6133	2.0867	3.4900e-003		0.0683	0.0683		0.0642	0.0642	0.0000	300.2467	300.2467	0.0705	0.0000	301.7266
Total	**0.1770**	**1.6133**	**2.0867**	**3.4900e-003**		**0.0683**	**0.0683**		**0.0642**	**0.0642**	**0.0000**	**300.2467**	**300.2467**	**0.0705**	**0.0000**	**301.7266**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3119	1.6647	4.8953	0.0101	0.2601	0.0360	0.2961	0.0753	0.0331	0.1085	0.0000	854.7564	854.7564	6.1200e-003	0.0000	854.8849
Worker	0.2177	0.3192	3.0455	0.0137	1.0835	8.5700e-003	1.0921	0.2902	7.9500e-003	0.2982	0.0000	815.6895	815.6895	0.0318	0.0000	816.3573
Total	**0.5295**	**1.9839**	**7.9408**	**0.0238**	**1.3436**	**0.0446**	**1.3882**	**0.3655**	**0.0411**	**0.4066**	**0.0000**	**1,670.4459**	**1,670.4459**	**0.0379**	**0.0000**	**1,671.2422**

3.5 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6195	2.0948	3.5000e-003		0.0685	0.0685		0.0645	0.0645	0.0000	301.4019	301.4019	0.0707	0.0000	302.8874
Total	**0.1777**	**1.6195**	**2.0948**	**3.5000e-003**		**0.0685**	**0.0685**		**0.0645**	**0.0645**	**0.0000**	**301.4019**	**301.4019**	**0.0707**	**0.0000**	**302.8874**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3103	1.6603	4.7796	0.0101	0.2792	0.0362	0.3154	0.0801	0.0333	0.1134	0.0000	858.7116	858.7116	6.1500e-003	0.0000	858.8407
Worker	0.2100	0.3062	2.9356	0.0138	1.1794	8.6200e-003	1.1880	0.3138	8.0000e-003	0.3218	0.0000	812.1856	812.1856	0.0310	0.0000	812.8372
Total	**0.5204**	**1.9665**	**7.7152**	**0.0239**	**1.4585**	**0.0448**	**1.5034**	**0.3939**	**0.0413**	**0.4352**	**0.0000**	**1,670.8971**	**1,670.8971**	**0.0372**	**0.0000**	**1,671.6780**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1777	1.6195	2.0948	3.5000e-003		0.0685	0.0685		0.0645	0.0645	0.0000	301.4015	301.4015	0.0707	0.0000	302.8871
Total	**0.1777**	**1.6195**	**2.0948**	**3.5000e-003**		**0.0685**	**0.0685**		**0.0645**	**0.0645**	**0.0000**	**301.4015**	**301.4015**	**0.0707**	**0.0000**	**302.8871**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3103	1.6603	4.7796	0.0101	0.2611	0.0362	0.2973	0.0757	0.0333	0.1090	0.0000	858.7116	858.7116	6.1500e-003	0.0000	858.8407
Worker	0.2100	0.3062	2.9356	0.0138	1.0877	8.6200e-003	1.0963	0.2913	8.0000e-003	0.2993	0.0000	812.1856	812.1856	0.0310	0.0000	812.8372
Total	**0.5204**	**1.9665**	**7.7152**	**0.0239**	**1.3488**	**0.0448**	**1.3937**	**0.3670**	**0.0413**	**0.4083**	**0.0000**	**1,670.8971**	**1,670.8971**	**0.0372**	**0.0000**	**1,671.6780**

3.5 Building Construction - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0333	2.1051	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.5281	341.5281	0.0137	0.0000	341.8160
Total	**0.1702**	**1.0333**	**2.1051**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.5281**	**341.5281**	**0.0137**	**0.0000**	**341.8160**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3054	1.6526	4.7405	0.0101	0.2792	0.0363	0.3155	0.0801	0.0334	0.1135	0.0000	859.4654	859.4654	6.1600e-003	0.0000	859.5948
Worker	0.2023	0.2935	2.8344	0.0138	1.1794	8.6300e-003	1.1880	0.3138	8.0100e-003	0.3218	0.0000	806.4821	806.4821	0.0302	0.0000	807.1169
Total	**0.5077**	**1.9461**	**7.5748**	**0.0239**	**1.4586**	**0.0449**	**1.5035**	**0.3939**	**0.0414**	**0.4353**	**0.0000**	**1,665.9474**	**1,665.9474**	**0.0364**	**0.0000**	**1,666.7116**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0333	2.1051	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.5277	341.5277	0.0137	0.0000	341.8156
Total	**0.1702**	**1.0333**	**2.1051**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.5277**	**341.5277**	**0.0137**	**0.0000**	**341.8156**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3054	1.6526	4.7405	0.0101	0.2612	0.0363	0.2975	0.0757	0.0334	0.1091	0.0000	859.4654	859.4654	6.1600e-003	0.0000	859.5948
Worker	0.2023	0.2935	2.8344	0.0138	1.0877	8.6300e-003	1.0963	0.2913	8.0100e-003	0.2993	0.0000	806.4821	806.4821	0.0302	0.0000	807.1169
Total	**0.5077**	**1.9461**	**7.5748**	**0.0239**	**1.3489**	**0.0449**	**1.3938**	**0.3670**	**0.0414**	**0.4084**	**0.0000**	**1,665.9474**	**1,665.9474**	**0.0364**	**0.0000**	**1,666.7116**

3.5 Building Construction - 2031

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0333	2.1051	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.5281	341.5281	0.0137	0.0000	341.8160
Total	**0.1702**	**1.0333**	**2.1051**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.5281**	**341.5281**	**0.0137**	**0.0000**	**341.8160**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3026	1.6432	4.6734	0.0101	0.2793	0.0363	0.3156	0.0801	0.0334	0.1136	0.0000	859.7312	859.7312	6.1700e-003	0.0000	859.8608
Worker	0.1949	0.2812	2.7391	0.0138	1.1794	8.6300e-003	1.1880	0.3138	8.0100e-003	0.3218	0.0000	801.5795	801.5795	0.0295	0.0000	802.1982
Total	**0.4975**	**1.9244**	**7.4125**	**0.0239**	**1.4586**	**0.0450**	**1.5036**	**0.3939**	**0.0414**	**0.4354**	**0.0000**	**1,661.310**	**1,661.3107**	**0.0356**	**0.0000**	**1,662.058**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1702	1.0333	2.1051	4.0200e-003		0.0193	0.0193		0.0193	0.0193	0.0000	341.5277	341.5277	0.0137	0.0000	341.8156
Total	**0.1702**	**1.0333**	**2.1051**	**4.0200e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**341.5277**	**341.5277**	**0.0137**	**0.0000**	**341.8156**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3026	1.6432	4.6734	0.0101	0.2612	0.0363	0.2976	0.0757	0.0334	0.1091	0.0000	859.7312	859.7312	6.1700e-003	0.0000	859.8608
Worker	0.1949	0.2812	2.7391	0.0138	1.0877	8.6300e-003	1.0963	0.2913	8.0100e-003	0.2993	0.0000	801.5795	801.5795	0.0295	0.0000	802.1982
Total	**0.4975**	**1.9244**	**7.4125**	**0.0239**	**1.3490**	**0.0450**	**1.3939**	**0.3670**	**0.0414**	**0.4085**	**0.0000**	**1,661.3107**	**1,661.3107**	**0.0356**	**0.0000**	**1,662.0589**

3.5 Building Construction - 2032

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0372	2.1132	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	342.8367	342.8367	0.0138	0.0000	343.1257
Total	**0.1708**	**1.0372**	**2.1132**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**342.8367**	**342.8367**	**0.0138**	**0.0000**	**343.1257**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2998	1.6438	4.6669	0.0102	0.2804	0.0365	0.3169	0.0805	0.0336	0.1141	0.0000	863.5027	863.5027	6.2000e-003	0.0000	863.6330
Worker	0.1887	0.2713	2.6653	0.0138	1.1839	8.6500e-003	1.1925	0.3150	8.0300e-003	0.3230	0.0000	800.4684	800.4684	0.0289	0.0000	801.0749
Total	**0.4885**	**1.9151**	**7.3322**	**0.0240**	**1.4643**	**0.0452**	**1.5095**	**0.3955**	**0.0417**	**0.4371**	**0.0000**	**1,663.9712**	**1,663.9712**	**0.0351**	**0.0000**	**1,664.7078**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1708	1.0372	2.1132	4.0400e-003		0.0193	0.0193		0.0193	0.0193	0.0000	342.8363	342.8363	0.0138	0.0000	343.1252
Total	**0.1708**	**1.0372**	**2.1132**	**4.0400e-003**		**0.0193**	**0.0193**		**0.0193**	**0.0193**	**0.0000**	**342.8363**	**342.8363**	**0.0138**	**0.0000**	**343.1252**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2998	1.6438	4.6669	0.0102	0.2623	0.0365	0.2988	0.0760	0.0336	0.1096	0.0000	863.5027	863.5027	6.2000e-003	0.0000	863.6330
Worker	0.1887	0.2713	2.6653	0.0138	1.0919	8.6500e-003	1.1005	0.2924	8.0300e-003	0.3005	0.0000	800.4684	800.4684	0.0289	0.0000	801.0749
Total	**0.4885**	**1.9151**	**7.3322**	**0.0240**	**1.3542**	**0.0452**	**1.3994**	**0.3684**	**0.0417**	**0.4101**	**0.0000**	**1,663.9712**	**1,663.9712**	**0.0351**	**0.0000**	**1,664.7078**

3.5 Building Construction - 2033

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1695	1.0293	2.0971	4.0100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	340.2196	340.2196	0.0137	0.0000	340.5064
Total	**0.1695**	**1.0293**	**2.0971**	**4.0100e-003**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**340.2196**	**340.2196**	**0.0137**	**0.0000**	**340.5064**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2931	1.6263	4.6166	0.0101	0.2783	0.0363	0.3146	0.0799	0.0334	0.1133	0.0000	857.3526	857.3526	6.1600e-003	0.0000	857.4821
Worker	0.1803	0.2601	2.5761	0.0137	1.1749	8.5700e-003	1.1834	0.3126	7.9500e-003	0.3206	0.0000	790.8940	790.8940	0.0281	0.0000	791.4833
Total	**0.4734**	**1.8863**	**7.1926**	**0.0238**	**1.4531**	**0.0449**	**1.4980**	**0.3925**	**0.0414**	**0.4338**	**0.0000**	**1,648.2466**	**1,648.2466**	**0.0342**	**0.0000**	**1,648.9653**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1695	1.0293	2.0971	4.0100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	340.2192	340.2192	0.0137	0.0000	340.5060
Total	**0.1695**	**1.0293**	**2.0971**	**4.0100e-003**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**340.2192**	**340.2192**	**0.0137**	**0.0000**	**340.5060**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2931	1.6263	4.6166	0.0101	0.2603	0.0363	0.2967	0.0754	0.0334	0.1089	0.0000	857.3526	857.3526	6.1600e-003	0.0000	857.4821
Worker	0.1803	0.2601	2.5761	0.0137	1.0835	8.5700e-003	1.0921	0.2902	7.9500e-003	0.2982	0.0000	790.8940	790.8940	0.0281	0.0000	791.4833
Total	**0.4734**	**1.8863**	**7.1926**	**0.0238**	**1.3439**	**0.0449**	**1.3888**	**0.3656**	**0.0414**	**0.4070**	**0.0000**	**1,648.2466**	**1,648.2466**	**0.0342**	**0.0000**	**1,648.9653**

3.5 Building Construction - 2034

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1695	1.0293	2.0971	4.0100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	340.2196	340.2196	0.0137	0.0000	340.5064
Total	**0.1695**	**1.0293**	**2.0971**	**4.0100e-003**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**340.2196**	**340.2196**	**0.0137**	**0.0000**	**340.5064**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2920	1.6223	4.5900	0.0101	0.2783	0.0364	0.3147	0.0799	0.0335	0.1133	0.0000	857.8453	857.8453	6.1700e-003	0.0000	857.9749
Worker	0.1739	0.2523	2.5078	0.0137	1.1749	8.5500e-003	1.1834	0.3126	7.9300e-003	0.3205	0.0000	787.9303	787.9303	0.0275	0.0000	788.5075
Total	**0.4659**	**1.8746**	**7.0978**	**0.0238**	**1.4532**	**0.0449**	**1.4981**	**0.3925**	**0.0414**	**0.4339**	**0.0000**	**1,645.775**	**1,645.7756**	**0.0337**	**0.0000**	**1,646.482**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1695	1.0293	2.0971	4.0100e-003		0.0192	0.0192		0.0192	0.0192	0.0000	340.2192	340.2192	0.0137	0.0000	340.5060
Total	**0.1695**	**1.0293**	**2.0971**	**4.0100e-003**		**0.0192**	**0.0192**		**0.0192**	**0.0192**	**0.0000**	**340.2192**	**340.2192**	**0.0137**	**0.0000**	**340.5060**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2920	1.6223	4.5900	0.0101	0.2604	0.0364	0.2968	0.0755	0.0335	0.1089	0.0000	857.8453	857.8453	6.1700e-003	0.0000	857.9749
Worker	0.1739	0.2523	2.5078	0.0137	1.0835	8.5500e-003	1.0921	0.2902	7.9300e-003	0.2981	0.0000	787.9303	787.9303	0.0275	0.0000	788.5075
Total	**0.4659**	**1.8746**	**7.0978**	**0.0238**	**1.3439**	**0.0449**	**1.3888**	**0.3657**	**0.0414**	**0.4071**	**0.0000**	**1,645.7756**	**1,645.7756**	**0.0337**	**0.0000**	**1,646.4824**

3.5 Building Construction - 2035

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1394	0.8224	1.8506	3.5400e-003		0.0104	0.0104		0.0104	0.0104	0.0000	300.9635	300.9635	0.0112	0.0000	301.1990
Total	**0.1394**	**0.8224**	**1.8506**	**3.5400e-003**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**300.9635**	**300.9635**	**0.0112**	**0.0000**	**301.1990**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2571	1.4325	4.0419	8.9500e-003	0.2463	0.0322	0.2785	0.0707	0.0296	0.1003	0.0000	759.2207	759.2207	5.4600e-003	0.0000	759.3354
Worker	0.1488	0.2178	2.1663	0.0121	1.0393	7.5400e-003	1.0468	0.2765	6.9900e-003	0.2835	0.0000	694.8141	694.8141	0.0239	0.0000	695.3153
Total	**0.4059**	**1.6503**	**6.2082**	**0.0211**	**1.2855**	**0.0398**	**1.3253**	**0.3472**	**0.0366**	**0.3838**	**0.0000**	**1,454.0348**	**1,454.0348**	**0.0293**	**0.0000**	**1,454.6508**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1394	0.8224	1.8506	3.5400e-003		0.0104	0.0104		0.0104	0.0104	0.0000	300.9631	300.9631	0.0112	0.0000	301.1987
Total	**0.1394**	**0.8224**	**1.8506**	**3.5400e-003**		**0.0104**	**0.0104**		**0.0104**	**0.0104**	**0.0000**	**300.9631**	**300.9631**	**0.0112**	**0.0000**	**301.1987**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2571	1.4325	4.0419	8.9500e-003	0.2304	0.0322	0.2626	0.0668	0.0296	0.0964	0.0000	759.2207	759.2207	5.4600e-003	0.0000	759.3354
Worker	0.1488	0.2178	2.1663	0.0121	0.9585	7.5400e-003	0.9661	0.2567	6.9900e-003	0.2637	0.0000	694.8141	694.8141	0.0239	0.0000	695.3153
Total	**0.4059**	**1.6503**	**6.2082**	**0.0211**	**1.1889**	**0.0398**	**1.2286**	**0.3235**	**0.0366**	**0.3601**	**0.0000**	**1,454.0348**	**1,454.0348**	**0.0293**	**0.0000**	**1,454.6508**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0293	0.3033	0.3158	4.9000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	43.1245	43.1245	0.0140	0.0000	43.4174
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0293**	**0.3033**	**0.3158**	**4.9000e-004**		**0.0163**	**0.0163**		**0.0150**	**0.0150**	**0.0000**	**43.1245**	**43.1245**	**0.0140**	**0.0000**	**43.4174**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	1.2600e-003	0.0118	3.0000e-005	2.9800e-003	2.0000e-005	3.0000e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.3109	2.3109	1.1000e-004	0.0000	2.3132
Total	**8.0000e-004**	**1.2600e-003**	**0.0118**	**3.0000e-005**	**2.9800e-003**	**2.0000e-005**	**3.0000e-003**	**7.9000e-004**	**2.0000e-005**	**8.1000e-004**	**0.0000**	**2.3109**	**2.3109**	**1.1000e-004**	**0.0000**	**2.3132**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0293	0.3033	0.3158	4.9000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	43.1245	43.1245	0.0140	0.0000	43.4174
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0293**	**0.3033**	**0.3158**	**4.9000e-**		**0.0163**	**0.0163**		**0.0150**	**0.0150**	**0.0000**	**43.1245**	**43.1245**	**0.0140**	**0.0000**	**43.4174**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	1.2600e-003	0.0118	3.0000e-005	2.7500e-003	2.0000e-005	2.7700e-003	7.4000e-004	2.0000e-005	7.6000e-004	0.0000	2.3109	2.3109	1.1000e-004	0.0000	2.3132
Total	**8.0000e-004**	**1.2600e-003**	**0.0118**	**3.0000e-005**	**2.7500e-003**	**2.0000e-005**	**2.7700e-003**	**7.4000e-004**	**2.0000e-005**	**7.6000e-004**	**0.0000**	**2.3109**	**2.3109**	**1.1000e-004**	**0.0000**	**2.3132**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1606	1.6522	1.8730	2.9100e-003		0.0868	0.0868		0.0799	0.0799	0.0000	255.7472	255.7472	0.0827	0.0000	257.4842
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1606**	**1.6522**	**1.8730**	**2.9100e-003**		**0.0868**	**0.0868**		**0.0799**	**0.0799**	**0.0000**	**255.7472**	**255.7472**	**0.0827**	**0.0000**	**257.4842**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4700e-003	6.9600e-003	0.0654	2.1000e-004	0.0177	1.3000e-004	0.0178	4.7100e-003	1.2000e-004	4.8200e-003	0.0000	13.4654	13.4654	6.2000e-004	0.0000	13.4784
Total	**4.4700e-003**	**6.9600e-003**	**0.0654**	**2.1000e-004**	**0.0177**	**1.3000e-004**	**0.0178**	**4.7100e-003**	**1.2000e-004**	**4.8200e-003**	**0.0000**	**13.4654**	**13.4654**	**6.2000e-004**	**0.0000**	**13.4784**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1606	1.6522	1.8730	2.9100e-003		0.0868	0.0868		0.0799	0.0799	0.0000	255.7469	255.7469	0.0827	0.0000	257.4839
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1606**	**1.6522**	**1.8730**	**2.9100e-003**		**0.0868**	**0.0868**		**0.0799**	**0.0799**	**0.0000**	**255.7469**	**255.7469**	**0.0827**	**0.0000**	**257.4839**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4700e-003	6.9600e-003	0.0654	2.1000e-004	0.0163	1.3000e-004	0.0164	4.3700e-003	1.2000e-004	4.4900e-003	0.0000	13.4654	13.4654	6.2000e-004	0.0000	13.4784
Total	**4.4700e-003**	**6.9600e-003**	**0.0654**	**2.1000e-004**	**0.0163**	**1.3000e-004**	**0.0164**	**4.3700e-003**	**1.2000e-004**	**4.4900e-003**	**0.0000**	**13.4654**	**13.4654**	**6.2000e-004**	**0.0000**	**13.4784**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1406	1.4184	1.8566	2.9000e-003		0.0725	0.0725		0.0667	0.0667	0.0000	254.8185	254.8185	0.0824	0.0000	256.5492
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1406**	**1.4184**	**1.8566**	**2.9000e-003**		**0.0725**	**0.0725**		**0.0667**	**0.0667**	**0.0000**	**254.8185**	**254.8185**	**0.0824**	**0.0000**	**256.5492**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2300e-003	6.5000e-003	0.0612	2.1000e-004	0.0176	1.3000e-004	0.0178	4.6900e-003	1.2000e-004	4.8100e-003	0.0000	13.1890	13.1890	5.9000e-004	0.0000	13.2013
Total	**4.2300e-003**	**6.5000e-003**	**0.0612**	**2.1000e-004**	**0.0176**	**1.3000e-004**	**0.0178**	**4.6900e-003**	**1.2000e-004**	**4.8100e-003**	**0.0000**	**13.1890**	**13.1890**	**5.9000e-004**	**0.0000**	**13.2013**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1406	1.4184	1.8566	2.9000e-003		0.0725	0.0725		0.0667	0.0667	0.0000	254.8182	254.8182	0.0824	0.0000	256.5489
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1406**	**1.4184**	**1.8566**	**2.9000e-003**		**0.0725**	**0.0725**		**0.0667**	**0.0667**	**0.0000**	**254.8182**	**254.8182**	**0.0824**	**0.0000**	**256.5489**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2300e-003	6.5000e-003	0.0612	2.1000e-004	0.0163	1.3000e-004	0.0164	4.3500e-003	1.2000e-004	4.4700e-003	0.0000	13.1890	13.1890	5.9000e-004	0.0000	13.2013
Total	**4.2300e-003**	**6.5000e-003**	**0.0612**	**2.1000e-004**	**0.0163**	**1.3000e-004**	**0.0164**	**4.3500e-003**	**1.2000e-004**	**4.4700e-003**	**0.0000**	**13.1890**	**13.1890**	**5.9000e-004**	**0.0000**	**13.2013**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1317	1.2998	1.8570	2.9000e-003		0.0651	0.0651		0.0599	0.0599	0.0000	254.8099	254.8099	0.0824	0.0000	256.5405
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1317**	**1.2998**	**1.8570**	**2.9000e-003**		**0.0651**	**0.0651**		**0.0599**	**0.0599**	**0.0000**	**254.8099**	**254.8099**	**0.0824**	**0.0000**	**256.5405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0200e-003	6.1000e-003	0.0574	2.1000e-004	0.0176	1.3000e-004	0.0178	4.6900e-003	1.2000e-004	4.8100e-003	0.0000	12.9819	12.9819	5.6000e-004	0.0000	12.9937
Total	**4.0200e-003**	**6.1000e-003**	**0.0574**	**2.1000e-004**	**0.0176**	**1.3000e-004**	**0.0178**	**4.6900e-003**	**1.2000e-004**	**4.8100e-003**	**0.0000**	**12.9819**	**12.9819**	**5.6000e-004**	**0.0000**	**12.9937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1317	1.2998	1.8570	2.9000e-003		0.0651	0.0651		0.0599	0.0599	0.0000	254.8096	254.8096	0.0824	0.0000	256.5402
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1317**	**1.2998**	**1.8570**	**2.9000e-003**		**0.0651**	**0.0651**		**0.0599**	**0.0599**	**0.0000**	**254.8096**	**254.8096**	**0.0824**	**0.0000**	**256.5402**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0200e-003	6.1000e-003	0.0574	2.1000e-004	0.0163	1.3000e-004	0.0164	4.3500e-003	1.2000e-004	4.4700e-003	0.0000	12.9819	12.9819	5.6000e-004	0.0000	12.9937
Total	**4.0200e-003**	**6.1000e-003**	**0.0574**	**2.1000e-004**	**0.0163**	**1.3000e-004**	**0.0164**	**4.3500e-003**	**1.2000e-004**	**4.4700e-003**	**0.0000**	**12.9819**	**12.9819**	**5.6000e-004**	**0.0000**	**12.9937**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1269	1.2242	1.8766	2.9200e-003		0.0603	0.0603		0.0555	0.0555	0.0000	256.7661	256.7661	0.0830	0.0000	258.5100
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1269**	**1.2242**	**1.8766**	**2.9200e-003**		**0.0603**	**0.0603**		**0.0555**	**0.0555**	**0.0000**	**256.7661**	**256.7661**	**0.0830**	**0.0000**	**258.5100**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8500e-003	5.8000e-003	0.0547	2.1000e-004	0.0178	1.3000e-004	0.0179	4.7300e-003	1.2000e-004	4.8400e-003	0.0000	12.8926	12.8926	5.4000e-004	0.0000	12.9040
Total	**3.8500e-003**	**5.8000e-003**	**0.0547**	**2.1000e-004**	**0.0178**	**1.3000e-004**	**0.0179**	**4.7300e-003**	**1.2000e-004**	**4.8400e-003**	**0.0000**	**12.8926**	**12.8926**	**5.4000e-004**	**0.0000**	**12.9040**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1269	1.2242	1.8766	2.9200e-003		0.0603	0.0603		0.0555	0.0555	0.0000	256.7658	256.7658	0.0830	0.0000	258.5097
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1269**	**1.2242**	**1.8766**	**2.9200e-003**		**0.0603**	**0.0603**		**0.0555**	**0.0555**	**0.0000**	**256.7658**	**256.7658**	**0.0830**	**0.0000**	**258.5097**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8500e-003	5.8000e-003	0.0547	2.1000e-004	0.0164	1.3000e-004	0.0165	4.3900e-003	1.2000e-004	4.5000e-003	0.0000	12.8926	12.8926	5.4000e-004	0.0000	12.9040
Total	**3.8500e-003**	**5.8000e-003**	**0.0547**	**2.1000e-004**	**0.0164**	**1.3000e-004**	**0.0165**	**4.3900e-003**	**1.2000e-004**	**4.5000e-003**	**0.0000**	**12.8926**	**12.8926**	**5.4000e-004**	**0.0000**	**12.9040**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1171	1.0990	1.8633	2.9100e-003		0.0536	0.0536		0.0493	0.0493	0.0000	255.6932	255.6932	0.0827	0.0000	257.4298
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1171**	**1.0990**	**1.8633**	**2.9100e-003**		**0.0536**	**0.0536**		**0.0493**	**0.0493**	**0.0000**	**255.6932**	**255.6932**	**0.0827**	**0.0000**	**257.4298**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6800e-003	5.4900e-003	0.0519	2.1000e-004	0.0177	1.3000e-004	0.0178	4.7100e-003	1.2000e-004	4.8200e-003	0.0000	12.6751	12.6751	5.2000e-004	0.0000	12.6861
Total	**3.6800e-003**	**5.4900e-003**	**0.0519**	**2.1000e-004**	**0.0177**	**1.3000e-004**	**0.0178**	**4.7100e-003**	**1.2000e-004**	**4.8200e-003**	**0.0000**	**12.6751**	**12.6751**	**5.2000e-004**	**0.0000**	**12.6861**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1171	1.0990	1.8633	2.9100e-003		0.0536	0.0536		0.0493	0.0493	0.0000	255.6929	255.6929	0.0827	0.0000	257.4295
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1171**	**1.0990**	**1.8633**	**2.9100e-003**		**0.0536**	**0.0536**		**0.0493**	**0.0493**	**0.0000**	**255.6929**	**255.6929**	**0.0827**	**0.0000**	**257.4295**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6800e-003	5.4900e-003	0.0519	2.1000e-004	0.0163	1.3000e-004	0.0164	4.3700e-003	1.2000e-004	4.4900e-003	0.0000	12.6751	12.6751	5.2000e-004	0.0000	12.6861
Total	**3.6800e-003**	**5.4900e-003**	**0.0519**	**2.1000e-004**	**0.0163**	**1.3000e-004**	**0.0164**	**4.3700e-003**	**1.2000e-004**	**4.4900e-003**	**0.0000**	**12.6751**	**12.6751**	**5.2000e-004**	**0.0000**	**12.6861**

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1171	1.0990	1.8633	2.9100e-003		0.0536	0.0536		0.0493	0.0493	0.0000	255.6932	255.6932	0.0827	0.0000	257.4298
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1171**	**1.0990**	**1.8633**	**2.9100e-003**		**0.0536**	**0.0536**		**0.0493**	**0.0493**	**0.0000**	**255.6932**	**255.6932**	**0.0827**	**0.0000**	**257.4298**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5400e-003	5.2400e-003	0.0496	2.1000e-004	0.0177	1.3000e-004	0.0178	4.7100e-003	1.2000e-004	4.8300e-003	0.0000	12.5269	12.5269	5.1000e-004	0.0000	12.5376
Total	**3.5400e-003**	**5.2400e-003**	**0.0496**	**2.1000e-004**	**0.0177**	**1.3000e-004**	**0.0178**	**4.7100e-003**	**1.2000e-004**	**4.8300e-003**	**0.0000**	**12.5269**	**12.5269**	**5.1000e-004**	**0.0000**	**12.5376**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1171	1.0990	1.8633	2.9100e-003		0.0536	0.0536		0.0493	0.0493	0.0000	255.6929	255.6929	0.0827	0.0000	257.4295
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1171**	**1.0990**	**1.8633**	**2.9100e-003**		**0.0536**	**0.0536**		**0.0493**	**0.0493**	**0.0000**	**255.6929**	**255.6929**	**0.0827**	**0.0000**	**257.4295**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5400e-003	5.2400e-003	0.0496	2.1000e-004	0.0163	1.3000e-004	0.0164	4.3700e-003	1.2000e-004	4.4900e-003	0.0000	12.5269	12.5269	5.1000e-004	0.0000	12.5376
Total	**3.5400e-003**	**5.2400e-003**	**0.0496**	**2.1000e-004**	**0.0163**	**1.3000e-004**	**0.0164**	**4.3700e-003**	**1.2000e-004**	**4.4900e-003**	**0.0000**	**12.5269**	**12.5269**	**5.1000e-004**	**0.0000**	**12.5376**

3.6 Paving - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1171	1.0990	1.8633	2.9100e-003		0.0536	0.0536		0.0493	0.0493	0.0000	255.6932	255.6932	0.0827	0.0000	257.4298
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1171**	**1.0990**	**1.8633**	**2.9100e-003**		**0.0536**	**0.0536**		**0.0493**	**0.0493**	**0.0000**	**255.6932**	**255.6932**	**0.0827**	**0.0000**	**257.4298**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-003	5.0200e-003	0.0477	2.1000e-004	0.0177	1.3000e-004	0.0178	4.7100e-003	1.2000e-004	4.8300e-003	0.0000	12.3964	12.3964	4.9000e-004	0.0000	12.4067
Total	**3.4000e-003**	**5.0200e-003**	**0.0477**	**2.1000e-004**	**0.0177**	**1.3000e-004**	**0.0178**	**4.7100e-003**	**1.2000e-004**	**4.8300e-003**	**0.0000**	**12.3964**	**12.3964**	**4.9000e-004**	**0.0000**	**12.4067**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1171	1.0990	1.8633	2.9100e-003		0.0536	0.0536		0.0493	0.0493	0.0000	255.6929	255.6929	0.0827	0.0000	257.4295
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1171**	**1.0990**	**1.8633**	**2.9100e-003**		**0.0536**	**0.0536**		**0.0493**	**0.0493**	**0.0000**	**255.6929**	**255.6929**	**0.0827**	**0.0000**	**257.4295**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-003	5.0200e-003	0.0477	2.1000e-004	0.0163	1.3000e-004	0.0164	4.3700e-003	1.2000e-004	4.4900e-003	0.0000	12.3964	12.3964	4.9000e-004	0.0000	12.4067
Total	**3.4000e-003**	**5.0200e-003**	**0.0477**	**2.1000e-004**	**0.0163**	**1.3000e-004**	**0.0164**	**4.3700e-003**	**1.2000e-004**	**4.4900e-003**	**0.0000**	**12.3964**	**12.3964**	**4.9000e-004**	**0.0000**	**12.4067**

3.6 Paving - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0413	0.3874	0.6568	1.0300e-003		0.0189	0.0189		0.0174	0.0174	0.0000	90.1294	90.1294	0.0292	0.0000	90.7415
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0413**	**0.3874**	**0.6568**	**1.0300e-003**		**0.0189**	**0.0189**		**0.0174**	**0.0174**	**0.0000**	**90.1294**	**90.1294**	**0.0292**	**0.0000**	**90.7415**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	1.6900e-003	0.0162	7.0000e-005	6.2400e-003	5.0000e-005	6.2800e-003	1.6600e-003	4.0000e-005	1.7000e-003	0.0000	4.3294	4.3294	1.7000e-004	0.0000	4.3330
Total	**1.1600e-003**	**1.6900e-003**	**0.0162**	**7.0000e-005**	**6.2400e-003**	**5.0000e-005**	**6.2800e-003**	**1.6600e-003**	**4.0000e-005**	**1.7000e-003**	**0.0000**	**4.3294**	**4.3294**	**1.7000e-004**	**0.0000**	**4.3330**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0413	0.3874	0.6568	1.0300e-003		0.0189	0.0189		0.0174	0.0174	0.0000	90.1293	90.1293	0.0292	0.0000	90.7414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0413**	**0.3874**	**0.6568**	**1.0300e-003**		**0.0189**	**0.0189**		**0.0174**	**0.0174**	**0.0000**	**90.1293**	**90.1293**	**0.0292**	**0.0000**	**90.7414**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	1.6900e-003	0.0162	7.0000e-005	5.7500e-003	5.0000e-005	5.8000e-003	1.5400e-003	4.0000e-005	1.5800e-003	0.0000	4.3294	4.3294	1.7000e-004	0.0000	4.3330
Total	**1.1600e-003**	**1.6900e-003**	**0.0162**	**7.0000e-005**	**5.7500e-003**	**5.0000e-005**	**5.8000e-003**	**1.5400e-003**	**4.0000e-005**	**1.5800e-003**	**0.0000**	**4.3294**	**4.3294**	**1.7000e-004**	**0.0000**	**4.3330**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3300e-003	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6263
Total	**2.0805**	**0.0370**	**0.0403**	**7.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**5.6172**	**5.6172**	**4.3000e-004**	**0.0000**	**5.6263**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0106	0.0168	0.1571	4.7000e-004	0.0398	2.9000e-004	0.0401	0.0106	2.6000e-004	0.0109	0.0000	30.8125	30.8125	1.4600e-003	0.0000	30.8431
Total	**0.0106**	**0.0168**	**0.1571**	**4.7000e-004**	**0.0398**	**2.9000e-004**	**0.0401**	**0.0106**	**2.6000e-004**	**0.0109**	**0.0000**	**30.8125**	**30.8125**	**1.4600e-003**	**0.0000**	**30.8431**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.0752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3300e-003	0.0370	0.0403	7.0000e-005		2.4400e-003	2.4400e-003		2.4400e-003	2.4400e-003	0.0000	5.6172	5.6172	4.3000e-004	0.0000	5.6263
Total	**2.0805**	**0.0370**	**0.0403**	**7.0000e-005**		**2.4400e-003**	**2.4400e-003**		**2.4400e-003**	**2.4400e-003**	**0.0000**	**5.6172**	**5.6172**	**4.3000e-004**	**0.0000**	**5.6263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0106	0.0168	0.1571	4.7000e-004	0.0367	2.9000e-004	0.0370	9.8200e-003	2.6000e-004	0.0101	0.0000	30.8125	30.8125	1.4600e-003	0.0000	30.8431
Total	**0.0106**	**0.0168**	**0.1571**	**4.7000e-004**	**0.0367**	**2.9000e-004**	**0.0370**	**9.8200e-003**	**2.6000e-004**	**0.0101**	**0.0000**	**30.8125**	**30.8125**	**1.4600e-003**	**0.0000**	**30.8431**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	11.0834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.1794	0.2136	3.5000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	30.0007	30.0007	2.0600e-003	0.0000	30.0440
Total	**11.1091**	**0.1794**	**0.2136**	**3.5000e-004**		**0.0111**	**0.0111**		**0.0111**	**0.0111**	**0.0000**	**30.0007**	**30.0007**	**2.0600e-003**	**0.0000**	**30.0440**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0836	0.7854	2.4800e-003	0.2124	1.5200e-003	0.2139	0.0565	1.4100e-003	0.0579	0.0000	161.6536	161.6536	7.4000e-003	0.0000	161.8091
Total	**0.0537**	**0.0836**	**0.7854**	**2.4800e-003**	**0.2124**	**1.5200e-003**	**0.2139**	**0.0565**	**1.4100e-003**	**0.0579**	**0.0000**	**161.6536**	**161.6536**	**7.4000e-003**	**0.0000**	**161.8091**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	11.0834					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.1794	0.2136	3.5000e-004		0.0111	0.0111		0.0111	0.0111	0.0000	30.0007	30.0007	2.0600e-003	0.0000	30.0439
Total	**11.1091**	**0.1794**	**0.2136**	**3.5000e-004**		**0.0111**	**0.0111**		**0.0111**	**0.0111**	**0.0000**	**30.0007**	**30.0007**	**2.0600e-003**	**0.0000**	**30.0439**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0537	0.0836	0.7854	2.4800e-003	0.1959	1.5200e-003	0.1974	0.0525	1.4100e-003	0.0539	0.0000	161.6536	161.6536	7.4000e-003	0.0000	161.8091
Total	**0.0537**	**0.0836**	**0.7854**	**2.4800e-003**	**0.1959**	**1.5200e-003**	**0.1974**	**0.0525**	**1.4100e-003**	**0.0539**	**0.0000**	**161.6536**	**161.6536**	**7.4000e-003**	**0.0000**	**161.8091**

Millbrae SP Construction

San Mateo County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	5	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00

Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	3.10500E-002	2.16450E-001	2.53850E-001	4.10000E-004	1.35000E-002	1.35000E-002	0.00000E+000	3.56179E+001	3.56179E+001	2.49000E-003	0.00000E+000	3.56703E+001
Concrete/Industrial Saws	4.94100E-002	3.90030E-001	4.65040E-001	7.90000E-004	2.24500E-002	2.24500E-002	0.00000E+000	6.80135E+001	6.80135E+001	4.01000E-003	0.00000E+000	6.80978E+001
Cranes	5.18410E-001	4.24187E+000	2.73367E+000	1.05600E-002	1.72450E-001	1.60070E-001	0.00000E+000	9.18771E+002	9.18771E+002	1.81660E-001	0.00000E+000	9.22586E+002
Excavators	1.80900E-001	1.70089E+000	2.58950E+000	4.09000E-003	8.24500E-002	7.58600E-002	0.00000E+000	3.59387E+002	3.59387E+002	1.16230E-001	0.00000E+000	3.61828E+002
Forklifts	5.54970E-001	4.39802E+000	6.83990E+000	9.82000E-003	2.09920E-001	1.94300E-001	0.00000E+000	8.54056E+002	8.54056E+002	1.72060E-001	0.00000E+000	8.57669E+002
Generator Sets	4.96020E-001	4.47824E+000	7.17081E+000	1.29100E-002	1.64990E-001	1.64990E-001	0.00000E+000	1.10922E+003	1.10922E+003	3.97800E-002	0.00000E+000	1.11005E+003
Graders	1.23040E-001	1.17608E+000	8.77980E-001	1.22000E-003	6.55600E-002	6.03200E-002	0.00000E+000	1.07320E+002	1.07320E+002	3.47100E-002	0.00000E+000	1.08049E+002
Pavers	3.65110E-001	3.53632E+000	5.45853E+000	8.87000E-003	1.67190E-001	1.53810E-001	0.00000E+000	7.78869E+002	7.78869E+002	2.51900E-001	0.00000E+000	7.84159E+002
Paving Equipment	3.16730E-001	2.92282E+000	4.92719E+000	7.87000E-003	1.43480E-001	1.32000E-001	0.00000E+000	6.91355E+002	6.91355E+002	2.23600E-001	0.00000E+000	6.96051E+002
Rollers	2.99830E-001	3.12317E+000	3.63997E+000	5.15000E-003	1.70070E-001	1.56470E-001	0.00000E+000	4.52251E+002	4.52251E+002	1.46270E-001	0.00000E+000	4.55323E+002
Rubber Tired Dozers	6.08710E-001	6.30407E+000	5.00163E+000	6.02000E-003	2.88300E-001	2.65240E-001	0.00000E+000	5.29795E+002	5.29795E+002	1.71350E-001	0.00000E+000	5.33394E+002
Scrapers	3.52510E-001	4.03056E+000	2.67305E+000	5.86000E-003	1.56960E-001	1.44400E-001	0.00000E+000	5.14941E+002	5.14941E+002	1.66540E-001	0.00000E+000	5.18438E+002
Tractors/Loaders/Backhoes	9.35190E-001	8.02955E+000	1.33133E+001	1.95900E-002	3.33190E-001	3.09440E-001	0.00000E+000	1.70633E+003	1.70633E+003	3.66930E-001	0.00000E+000	1.71403E+003
Welders	4.14200E-001	2.57344E+000	3.22344E+000	5.02000E-003	7.15700E-002	7.15700E-002	0.00000E+000	3.69383E+002	3.69383E+002	3.35900E-002	0.00000E+000	3.70088E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	3.10500E-002	2.16450E-001	2.53850E-001	4.10000E-004	1.35000E-002	1.35000E-002	0.00000E+000	3.56179E+001	3.56179E+001	2.49000E-003	0.00000E+000	3.56702E+001
Concrete/Industrial Saws	4.94100E-002	3.90030E-001	4.65040E-001	7.90000E-004	2.24500E-002	2.24500E-002	0.00000E+000	6.80134E+001	6.80134E+001	4.01000E-003	0.00000E+000	6.80977E+001
Cranes	5.18410E-001	4.24187E+000	2.73367E+000	1.05600E-002	1.72450E-001	1.60070E-001	0.00000E+000	9.18770E+002	9.18770E+002	1.81660E-001	0.00000E+000	9.22585E+002

Excavators	1.80900E-001	1.70089E+000	2.58950E+000	4.09000E-003	8.24500E-002	7.58600E-002	0.00000E+000	3.59387E+002	3.59387E+002	1.16230E-001	0.00000E+000	3.61827E+002
Forklifts	5.54970E-001	4.39802E+000	6.83989E+000	9.82000E-003	2.09920E-001	1.94290E-001	0.00000E+000	8.54055E+002	8.54055E+002	1.72060E-001	0.00000E+000	8.57668E+002
Generator Sets	4.96020E-001	4.47823E+000	7.17080E+000	1.29100E-002	1.64990E-001	1.64990E-001	0.00000E+000	1.10922E+003	1.10922E+003	3.97800E-002	0.00000E+000	1.11005E+003
Graders	1.23040E-001	1.17608E+000	8.77980E-001	1.22000E-003	6.55600E-002	6.03200E-002	0.00000E+000	1.07320E+002	1.07320E+002	3.47100E-002	0.00000E+000	1.08049E+002
Pavers	3.65110E-001	3.53631E+000	5.45852E+000	8.87000E-003	1.67190E-001	1.53810E-001	0.00000E+000	7.78868E+002	7.78868E+002	2.51900E-001	0.00000E+000	7.84158E+002
Paving Equipment	3.16730E-001	2.92281E+000	4.92719E+000	7.87000E-003	1.43480E-001	1.32000E-001	0.00000E+000	6.91354E+002	6.91354E+002	2.23600E-001	0.00000E+000	6.96050E+002
Rollers	2.99830E-001	3.12316E+000	3.63996E+000	5.15000E-003	1.70070E-001	1.56470E-001	0.00000E+000	4.52251E+002	4.52251E+002	1.46270E-001	0.00000E+000	4.55322E+002
Rubber Tired Dozers	6.08710E-001	6.30406E+000	5.00162E+000	6.02000E-003	2.88300E-001	2.65240E-001	0.00000E+000	5.29795E+002	5.29795E+002	1.71350E-001	0.00000E+000	5.33393E+002
Scrapers	3.52510E-001	4.03055E+000	2.67304E+000	5.86000E-003	1.56960E-001	1.44400E-001	0.00000E+000	5.14940E+002	5.14940E+002	1.66540E-001	0.00000E+000	5.18438E+002
Tractors/Loaders/Backhoes	9.35190E-001	8.02955E+000	1.33133E+001	1.95900E-002	3.33190E-001	3.09440E-001	0.00000E+000	1.70633E+003	1.70633E+003	3.66930E-001	0.00000E+000	1.71403E+003
Welders	4.14200E-001	2.57344E+000	3.22344E+000	5.02000E-003	7.15700E-002	7.15700E-002	0.00000E+000	3.69383E+002	3.69383E+002	3.35900E-002	0.00000E+000	3.70088E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12303E-006	1.12303E-006	0.00000E+000	0.00000E+000	1.12138E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17624E-006	1.17624E-006	0.00000E+000	0.00000E+000	1.17478E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18637E-006	1.18637E-006	0.00000E+000	0.00000E+000	1.19230E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19648E-006	1.19648E-006	0.00000E+000	0.00000E+000	1.18841E-006
Forklifts	0.00000E+000	0.00000E+000	1.46201E-006	0.00000E+000	0.00000E+000	5.14668E-005	0.00000E+000	1.18259E-006	1.18259E-006	0.00000E+000	0.00000E+000	1.18927E-006
Generator Sets	0.00000E+000	2.23302E-006	1.39454E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19003E-006	1.19003E-006	0.00000E+000	0.00000E+000	1.18913E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21133E-006	1.21133E-006	0.00000E+000	0.00000E+000	1.20316E-006
Pavers	0.00000E+000	2.82780E-006	1.83200E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18120E-006	1.18120E-006	0.00000E+000	0.00000E+000	1.18598E-006
Paving Equipment	0.00000E+000	3.42135E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20054E-006	1.20054E-006	0.00000E+000	0.00000E+000	1.19244E-006
Rollers	0.00000E+000	3.20188E-006	2.74728E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19403E-006	1.19403E-006	0.00000E+000	0.00000E+000	1.18597E-006
Rubber Tired Dozers	0.00000E+000	1.58628E-006	1.99935E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18914E-006	1.18914E-006	0.00000E+000	0.00000E+000	1.18112E-006
Scrapers	0.00000E+000	2.48104E-006	3.74104E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18460E-006	1.18460E-006	0.00000E+000	0.00000E+000	1.19590E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	1.50225E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18969E-006	1.18969E-006	0.00000E+000	0.00000E+000	1.19018E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19118E-006	1.19118E-006	0.00000E+000	0.00000E+000	1.18890E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.25	0.07	0.23	0.06	0.08	0.07
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	21.93	5.92	20.28	5.52	0.08	0.07
Demolition	Fugitive Dust	0.06	0.01	0.03	0.00	0.57	0.57
Demolition	Roads	0.03	0.01	0.02	0.01	0.08	0.07
Grading	Fugitive Dust	4.17	2.02	1.78	0.86	0.57	0.57
Grading	Roads	0.04	0.01	0.03	0.01	0.08	0.07
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.13	0.04	0.12	0.03	0.08	0.07
Site Preparation	Fugitive Dust	2.75	1.51	1.17	0.65	0.57	0.57
Site Preparation	Roads	0.01	0.00	0.01	0.00	0.08	0.07

CalEEMod Land Use Inputs - Specific Plan: Existing Land Uses

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Multifamily	308	DU	19.25	308,000
Recreational	Hotel	39	DU	1.30	56,628
Retail	Strip Mall	132.575	1000bsf	3.04	132,575
Commercial	General Office	76.100	1000bsf	1.75	76,100
Industrial	General Light Industrial	335.240	1000bsf	7.70	335,240

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	2014
Land Use Setting	Urban
Utility Company	PG&E

Land Uses	Office SF	Retail SF	Industrial/Non--Retail SF	Residential	Hotel Rooms	Population	Population w/ Temp Residents	Employees
To Be Redeveloped	67,600	38,100	335,240	1	39	3	81	732
To Remain	8,500	94,475	0	307	0	814	814	270
Total	76,100	132,575	335,240	308	39	816	894	1,002

Persons/Unit	2.65	Persons/Room	2.00

U.S. Census Bureau's 2005-2009 American Community Survey 5 year estimates. Temporary residents associated with the hotel are estimated at an average of 2 persons per room.

Employment Factors

Office	250 SQFT/Employee	Industrial	1,000 SQFT/Employee
Retail	400 SQFT/Employee	Hotel	1.25 Room/Employee

Trip Generation:*

Residential

308.00 dwelling units (DU)
4.78 trips/DU
1,471 Average Daily Trips (ADT)*

Hotel

Trips for the hotel are "other" trips and modeled as industrial.
39.00 DU
0.00 trips/DU
0 Average Daily Trips (ADT)*

Retail

132.58 1000bsf
46.64 trips/1000bsf
6,183 Average Daily Trips (ADT)*

Office

76.10 1000bsf
9.40 trips/1000bsf
715 Average Daily Trips (ADT)*

Industrial

335.24 1000bsf
5.05 trips/1000bsf
1,694 Average Daily Trips (ADT)*

Total Weekday ADTs: 10,063

Land Use	Calculated Weekday Trip Rate	ITE Trip Rate**	Adjusted Saturday and Sunday Trip Rate	ITE Saturday Trip Rate**	ITE Sunday Trip Rate**	Adjusted Saturday Trip Rate	Adjusted Sunday Trip Rate
Residential	4.78	5.81	*82.20%*	5.67	4.84	4.66	3.98
Hotel	0.00	8.17	*0.00%*	8.19	5.95	0.00	0.00
Retail	46.64	44.32	*105.23%*	42.04	20.43	44.24	21.50
Office	9.40	11.03	*85.18%*	2.46	1.05	2.10	0.89
Industrial	5.05	6.97	72.50%	1.32	0.68	0.96	0.49

Average Trip Length: 10.56 miles per trip*

*Source: Based on information provided by F&P.
**ITE Trip Generation Manual 9th Edition.

Water Use

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

Water Demand**

Land Use Type	Generation Rate	Units	Wastewater Demand (GPD)	Wastewater Demand (GPY)	Water Demand (GPD)	Water Demand (GPY)
Office	0.1	**GPD/SF	7,610.00	2,777,650.00	8,751.50	3,194,297.50
Industrial	0.1	**GPD/SF	33,524.00	12,236,260.00	38,552.60	14,071,699.00
Retail	0.1	**GPD/SF	13,257.50	4,838,987.50	15,246.13	5,564,835.63
Residential	186	***GPD/Unit	57,288.00	20,910,120.00	57,288.00	20,910,120.00
Hotel Rooms	200	**GPD/Unit	7,800.00	2,847,000.00	8,970.00	3,274,050.00

CalEEMod Inputs

Land Use Type	Indoor Water Use (gpy)	Outdoor Water Use (gpy)
Office	2,777,650	416,648
Industrial	12,236,260	1,835,439
Retail	4,838,988	725,848
Residential	20,910,120	0
Hotel Rooms	2,847,000	427,050
TOTAL	**43,610,018**	**3,404,985**

**WSA by GHD April 2015

***Utilities and Service Systems EIR Chapter

Solid Waste*

Residential Solid Waste Rate	3.5	lbs per day per resident
Non-Residential Average Waste Rate	16.3	lbs per day per employee

Land Uses	Population	Solid Waste (lbs/day)	Solid Waste (tons/day)	Solid Waste (tons/yr)
Residents	816	2,857	1	521
Employees	1,002	16,337	8	2,982
TOTALs		**19,194**	**10**	**3,503**

*Waste generation rates provided in Section 4.14.3.3 of Chapter 4.14, Utilities and Service Systmes, of the DEIR.

CalEEMod Inputs

Land Uses		Solid Waste (tons/yr)
Multifamily		*521*
	subtotal	521
Industrial		*745*
Hotel		*745*
Strip Mall		*745*
General Office		*745*
	subtotal	2,982
	TOTALs	**3,503**

Area - Hearths

Assume zero woodstoves and fireplaces in the existing model run (conservative).

Energy Use

Historical Data Enabled: All existing buildings are assumed to meet the 2005 Building Energy Efficiency Standards.

CalEEMod Land Use Inputs - Specific Plan: Remaining Existing Land Uses

Type	Land Use Subtype	LandUseUnitAmount	LandUseSizeMetric	LotAcreage	LandUseSquareFeet
Residential	Multifamily	307	DU	19.19	307,000
Retail	Strip Mall	94.475	1000bsf	2.17	94,475
Commercial	General Office	8.500	1000bsf	0.20	8,500

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	2040 (2035)
Land Use Setting	Urban
Utility Company	PG&E

Land Uses	Office SF	Retail SF	Residential	Hotel Rooms	Population	Population w/ Temp Residents	Employees
Remaining Existing	8,500	94,475	307	0	814	814	270

Trip Generation:*

Residential

307.00	dwelling units (DU)
3.56	trips/DU
1,093	Average Daily Trips (ADT)*

Retail

94.48	1000bsf
30.15	trips/1000bsf
2,849	Average Daily Trips (ADT)*

Office

8.50	1000bsf
3.88	trips/1000bsf
33	Average Daily Trips (ADT)*

Total Weekday ADTs: 3,975

Land Use	Calculated Weekday Trip Rate	ITE Trip Rate**	Adjusted Saturday and Sunday Trip Rate	ITE Saturday Trip Rate**	ITE Sunday Trip Rate**	Adjusted Saturday Trip Rate	Adjusted Sunday Trip Rate
Residential	3.56	5.81	*61.30%*	5.67	4.84	3.48	2.97
Retail	30.15	44.32	*68.03%*	42.04	20.43	28.60	13.90
Office	3.88	11.03	*35.18%*	2.46	1.05	0.87	0.37

Average Trip Length: 9.82 miles per trip*

*Source: Based on information provided by F&P.
**ITE Trip Generation Manual 9th Edition.

Water Use

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

Water Demand**

Land Use Type	Generation Rate	Units	Wastewater Demand (GPD)	Wastewater Demand (GPY)	Water Demand (GPD)	Water Demand (GPY)
Office	0.1	**GPD/SF	850.00	310,250.00	977.50	356,787.50
Retail	0.1	**GPD/SF	9,447.50	3,448,337.50	10,864.63	3,965,588.13
Residential	186	***GPD/Unit	57,102.00	20,842,230.00	57,102.00	20,842,230.00

CalEEMod Inputs

Land Use Type	Indoor Water Use (gpy)	Outdoor Water Use (gpy)
Office	310,250	46,537
Retail	3,448,338	517,251
Residential	20,842,230	0
TOTAL	**24,600,818**	**563,788**

**WSA by GHD April 2015
***Utilities and Service Systems EIR Chapter

Solid Waste*

Residential Solid Waste Rate	3.5	lbs per day per resident
Non-Residential Average Waste Rate	16.3	lbs per day per employee

Land Uses	**Population**	**Solid Waste (lbs/day)**	**Solid Waste (tons/day)**	**Solid Waste (tons/yr)**
Residents	814	2,847	1	520
Employees	270	4,404	2	804
TOTALs		**7,251**	**4**	**1,323**

*Waste generation rates provided in Section 4.14.3.3 of Chapter 4.14, Utilities and Service Systmes, of the DEIR.

CalEEMod Inputs

Land Uses		**Solid Waste (tons/yr)**
Multifamily		*520*
	subtotal	520
Strip Mall		*402*
General Office		*402*
	subtotal	804
	TOTALs	**1,323**

Area - Hearths

Assume zero woodstoves and fireplaces (conservative).

Energy Use

Historical Data Enabled: All existing buildings are assumed to meet the 2005 Building Energy Efficiency Standards.

CalEEMod Land Use Inputs - Specific Plan: New Land Uses

Type	Land Use Subtype	LandUseUnitAmount	LandUseSizeMetric	LotAcreage	LandUseSquareFeet
Residential	Multifamily	1,443	DU	90.19	1,443,000
Recreational	Hotel	370	room	12.33	537,240
Retail	Strip Mall	180.635	1000bsf	4.15	180,635
Commercial	General Office	1,644.840	1000bsf	37.76	1,644,840

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	2040 (2035)
Land Use Setting	Urban
Utility Company	PG&E

Land Uses	Office SF	Retail SF	Residential	Hotel Rooms	Population	Population w/ Temp Residents	Employees
Existing to be Redeveloped	67,600	38,100	1	39	3	81	397
TOD #1	267,000	32,000	500	0	1,325	1,325	1,148
TOD #2	164,535	46,935	321	116	851	1,083	868
Other SP Areas	1,145,705	63,600	621	215	1,648	2,078	4,917
Total	1,644,840	180,635	1,443	370	3,826	4,566	7,330

Trip Generation:

Residential

1,443.00	dwelling units (DU)
3.56	trips/DU
5,140	Average Daily Trips (ADT)*

Hotel

370.00	rooms
0.32	trips/DU
118	Average Daily Trips (ADT)*

Retail

180.64	1000bsf
30.15	trips/1000bsf
5,446	Average Daily Trips (ADT)*

Office

1,644.84	1000bsf
3.88	trips/1000bsf
6,382	Average Daily Trips (ADT)*

		check	
Total Average Daily Trips:	17,087	21,062	21,062

Land Use	Calculated Weekday Trip Rate	ITE Trip Rate**	Adjusted Saturday and Sunday Trip Rate	ITE Saturday Trip Rate**	ITE Sunday Trip Rate**	Adjusted Saturday Trip Rate	Adjusted Sunday Trip Rate
Residential	3.56	5.81	*61.30%*	5.67	4.84	3.48	2.97
Hotel	0.32	8.17	*3.92%*	8.19	5.95	0.32	0.23
Retail	30.15	44.32	*68.03%*	42.04	20.43	28.60	13.90
Office	3.88	11.03	*35.18%*	2.46	1.05	0.87	0.37

Average Trip Length: 9.82 miles per trip*

*Source: Based on information provided by F&P.

**ITE Trip Generation Manual 9th Edition.

Water Use

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

Water Demand**

Land Use Type	Generation Rate	Units	Wastewater Demand (GPD)	Wastewater Demand (GPY)	Water Demand (GPD)	Water Demand (GPY)
Office	0.1	**GPD/SF	164,484.00	60,036,660.00	189,156.60	69,042,159.00
Retail	0.1	**GPD/SF	18,063.50	6,593,177.50	20,773.03	7,582,154.13
Residential	186	***GPD/Unit	268,398.00	97,965,270.00	268,398.00	97,965,270.00
Hotel Rooms	200	**GPD/Unit	74,000.00	27,010,000.00	85,100.00	31,061,500.00

CalEEMod Inputs

Land Use Type	Indoor Water Use (gpy)	Outdoor Water Use (gpy)
Office	60,036,660	9,005,499
Retail	6,593,178	988,977
Residential	97,965,270	0
Hotel Rooms	27,010,000	4,051,500
TOTAL	**191,605,108**	**14,045,976**

**WSA by GHD April 2015

***Utilities and Service Systems EIR Chapter

Solid Waste*

Residential Solid Waste Rate	3.5	lbs per day per resident
Non-Residential Average Waste Rate	16.3	lbs per day per employee

Land Uses	Population	Solid Waste (lbs/day)	Solid Waste (tons/day)	Solid Waste (tons/yr)
Residents	3,826	13,393	7	2,444
Employees	7,330	119,476	60	21,804
TOTALs		**132,869**	**66**	**24,249**

*Waste generation rates provided in Section 4.14.3.3 of Chapter 4.14, Utilities and Service Systmes, of the DEIR.

CalEEMod Inputs

Land Uses		Solid Waste (tons/yr)
Multifamily		*2,444*
	subtotal	2,444
Hotel		*7,268*
Strip Mall		*7,268*
General Office		*7,268*
	subtotal	21,804
	TOTALs	**24,249**

Energy Use

All new buildings would be built to meet the 2013 Building Energy Efficiency Standards which are 25% and 30% more energy efficient for residential and non-residential buildings, respectively, compared to the 2008 Building Energy Efficiency Standards. For purposes of modeling, it is assumed all buildings would be 25% more energy efficient.

Area - Hearths

0%	Woodstoves
0%	Wood Fireplace
100%	Gas Fireplace

Since the residences are apartments, they are unlikely to install wood fireplaces.

Water Mitigation

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

CalEEMod Construction Run Land Use Inputs - Specific Plan

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Multifamily	622	DU	38.88	622,000
Recreational	Hotel	254	room	8.47	368,808
Retail	Strip Mall	101.700	1000bsf	2.33	101,700
Commercial	General Office	1,213.31	1000bsf	27.85	1,213,305

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	2035
Land Use Setting	Urban
Utility Company	PG&E

Land Uses

	Office SF	Retail SF	Residential	Hotel Rooms	Population	Employees
Existing to be Redeveloped	67,600	38,100	1	39	3	397
TOD #1	267,000	32,000	500	0	1,325	1,148
TOD #2	164,535	46,935	321	116	851	868
Other SP Areas	1,145,705	63,600	621	215	1,648	4,917
Total	**1,644,840**	**180,635**	**1,443**	**370**	**3,826**	**7,330**

Demolition

	Office SF	Retail SF	Residential	Residential SF	Hotel Rooms	Hotel SF*
Existing to be Redeveloped	67,600	38,100	1		39	21,716

*The Dylan Hotel: http://gis.co.sanmateo.ca.us/countygis/applications/gisapp_PropReviewMap.asp?APN=024352020&querytype=APNReview

Building Square Footage Demolished	127,416	building square feet
Total Haul Trips	580	trip ends (CalEEMod Default)
1-way haul distance	20	miles (CalEEMod Default)
Haul truck capacity	16	cubic yards (CalEEMod default)

Construction Phasing and Equipment

Because of the programmatic nature of the Millbrae Station Area Specific Plan, CalEEMod defaults are assumed except as noted.

Assumed number of Building Construction phase daily number of worker trips:	1,000	daily worker trips

Phase	CalEEMod Default Daily Trips		Proportion to Bldg Const. Vendor Trips		Adjusted Daily Trips	
	Worker	Vendor	Worker	Vendor	Worker	Vendor
Building Construction	1,024	342	100%	33%	1,000	334
Architectural Coating	205		20%		200	

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

Construction - Unmitigated Run

BAAQMD BMPs

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction
Unpaved Roads	Vehicle Speed:	15	mph
Clean Paved Road	9	% PM Reduction	

Construction Phasing - Specific Plan

5-Day Work Week

CalEEMod Default Schedule

Phase Name	Start Date	End Date	CalEEMod Days	
Demolition	1/1/2016	10/6/2016	200	
Site Preparation	10/7/2016	3/23/2017	120	
Grading	3/24/2017	5/31/2018	310	
Building Construction	6/1/2018	4/18/2030	3100	
Paving	4/19/2030	2/20/2031	220	
Architectural Coating	2/21/2031	12/25/2031	220	
		Duration	15.8	years

Phase Name	Start Date	End Date	CalEEMod Days	Duration (Mos)
Demolition	11/1/2020	10/20/2021	253	11.5
Site Preparation	11/1/2020	6/1/2021	152	6.9
Grading	11/1/2020	5/4/2022	393	17.9
Building Construction	11/1/2020	11/16/2035	3,925	178.4
Paving*	11/1/2020	5/9/2028	1963	89.2
Architectural Coating	11/1/2020	11/25/2021	279	12.7

*Assumes 50 percent of the Building Construction duration.

TOD #1 Emissions Worksheets

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Regional Construction Emissions - TOD #1

Annual Average Emissions with Best Control Measures for Fugitive Dust

No. of Construction Days:

Year	Start	End	Workdays
	1/1/2016	5/31/2016	108
2016	7/1/2016	12/31/2016	131
			239
2017	1/1/2017	12/31/2017	260
2018	1/1/2018	12/31/2018	261
2019	1/1/2019	12/31/2019	261
Entire	1/1/2016	12/31/2019	1021

Emissions by Year (tons/year)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2016	0.5752	5.6629	4.6866	0.0060	0.2974	0.2809	0.5783	0.1419	0.2595	0.4014
2017	1.0056	8.5964	7.5840	0.0106	0.3373	0.4430	0.7804	0.1533	0.4134	0.5667
2018	1.9385	3.8967	3.5976	0.0054	0.1630	0.2216	0.3846	0.0756	0.2095	0.2851
2019	3.5149	3.0000	2.9829	0.0047	0.0526	0.1641	0.2167	0.0141	0.1560	0.1701
Total	**7.0341**	**21.1560**	**18.8510**	**0.0267**	**0.8504**	**1.1095**	**1.9599**	**0.3849**	**1.0384**	**1.4233**

Average Daily Emissions (lbs/day)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2016	10.6519	104.8685	86.7889	0.1111	5.5074	5.2019	10.7093	2.6278	4.8056	7.4333
2017	7.7354	66.1262	58.3385	0.0815	2.5946	3.4077	6.0031	1.1792	3.1800	4.3592
2018	14.8544	29.8598	27.5678	0.0411	1.2490	1.6981	2.9471	0.5793	1.6054	2.1847
2019	26.9341	22.9885	22.8575	0.0362	0.4031	1.2575	1.6605	0.1080	1.1954	1.3034
Total	**13.7788**	**41.4417**	**36.9265**	**0.0523**	**1.6658**	**2.1734**	**3.8392**	**0.7540**	**2.0341**	**2.7881**
BAAQMD Average Daily Threshold	54	54	NA	NA	BMPs	82	NA	BMPs	54	NA
Exceed Average Daily Thresholds?	No	No	NA	NA	NA	No	NA	NA	No	NA

Operational Criteria Air Pollutant Emissions Summary - TOD #1

Annual Emission

Source	Tons/yr	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources		4.77	0.05	0.05	0.05
Energy Use		0.07	0.63	0.05	0.05
Mobile Sources		2.83	5.69	6.32	1.75
Waste Generation		0.00	0.00	0.00	0.00
Water/Wastewater		0.00	0.00	0.00	0.00
Total		**7.68**	**6.36**	**6.42**	**1.85**
BAAQMD Threshold (Annual)		10	10	15	10
Exceeds Threshold		No	No	No	No

Average Daily Emissions*

*Annual emissions divided by 365 days/year to obtain average daily emissions.

Source	lbs/day	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources		26.16	0.25	0.25	0.25
Energy Use		0.40	3.44	0.27	0.27
Mobile Sources		15.51	31.18	34.64	9.60
Waste Generation		0.00	0.00	0.00	0.00
Water/Wastewater		0.00	0.00	0.00	0.00
Total		**42.07**	**34.87**	**35.16**	**10.13**
BAAQMD Threshold (Daily)		54	54	82	54
Exceeds Threshold		No	No	No	No

GHG Emissions Worksheet - TOD #1

Proposed Project Buildout

Construction

	MTons Total
2016	553
2017	942
2018	453
2019	390
Total Construction	**2,338**
30-Year Amortization	**78**

Operation

Source	Buildout MTons/Year	Percent of Project Total
Area	34	0%
Energy	2,935	27%
Mobile	5,672	53%
Waste	1,939	18%
Water	104	1%
Total All Sectors	10,684	100%
Total without Waste Generation	8,745	

*Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2010, September 28. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 15. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-%28ghg%29-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf?sfvrsn=2.

TOD #1 CalEEMod Output

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TOD #1 CalEEMod Construction: Unmitigated

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Millbrae TOD #1 Construction

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	267.00	1000sqft	0.00	267,000.00	0
Enclosed Parking with Elevator	365.57	1000sqft	0.00	365,574.00	0
Other Asphalt Surfaces	0.59	Acre	0.59	0.00	0
Apartments Low Rise	500.00	Dwelling Unit	2.91	408,500.00	0
Strip Mall	32.00	1000sqft	0.00	32,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description and information provided by the Applicant.

Construction Phase - Based on information provided/verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Equipment assumed in P1 Demolition phase.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information provided by the Applicant.

Off-road Equipment -

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment -

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment -

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Trips and VMT - Based on information provided by the Applicant.

Demolition -

Grading -

Architectural Coating - Based on the phasing information provided by the Applicant. Parking structure assumed to not be painted.

Construction Off-road Equipment Mitigation - BAAQMD Fugitive Dust Control BMP.

Off-road Equipment - Placeholder only for soil haul emissions.

Off-road Equipment - Placeholder only for soil haul emissions.

Off-road Equipment - Placeholder only for soil haul emissions.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	332,287.00	52,311.00
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tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	332,287.00	52,311.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	996,861.00	156,934.00
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tblArchitecturalCoating	ConstArea_Residential_Exterior	275,738.00	96,508.00
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tblConstructionPhase	PhaseEndDate	9/29/2016	10/31/2016
tblConstructionPhase	PhaseEndDate	11/2/2016	8/31/2016
tblConstructionPhase	PhaseEndDate	5/30/2017	6/30/2017
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tblConstructionPhase	PhaseStartDate	12/1/2019	1/1/2017
tblConstructionPhase	PhaseStartDate	2/1/2016	1/1/2016
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tblConstructionPhase	PhaseStartDate	6/1/2016	7/1/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	5/1/2017	6/1/2017
tblConstructionPhase	PhaseStartDate	12/30/2017	2/1/2018
tblConstructionPhase	PhaseStartDate	9/1/2016	10/1/2016
tblConstructionPhase	PhaseStartDate	11/1/2016	7/1/2016

tblConstructionPhase	PhaseStartDate	6/1/2017	2/1/2017
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tblTripsAndVMT	HaulingTripLength	20.00	15.00

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tblTripsAndVMT	HaulingTripNumber	36.00	34.00
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tblTripsAndVMT	WorkerTripNumber	15.00	4.00
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.5752	5.6629	4.6866	6.0000e-003	0.6144	0.2809	0.8953	0.3097	0.2595	0.5693	0.0000	550.5424	550.5424	0.1109	0.0000	552.8707
2017	1.0056	8.5964	7.5840	0.0106	0.6443	0.4430	1.0873	0.3193	0.4134	0.7326	0.0000	938.0129	938.0129	0.1865	0.0000	941.9286
2018	1.9385	3.8967	3.5976	5.3600e-003	0.3147	0.2216	0.5363	0.1590	0.2095	0.3685	0.0000	450.3857	450.3857	0.1071	0.0000	452.6356
2019	3.5149	3.0000	2.9829	4.7300e-003	0.0526	0.1641	0.2167	0.0141	0.1560	0.1701	0.0000	388.5227	388.5227	0.0855	0.0000	390.3179
Total	**7.0341**	**21.1560**	**18.8511**	**0.0267**	**1.6260**	**1.1095**	**2.7355**	**0.8021**	**1.0384**	**1.8405**	**0.0000**	**2,327.4637**	**2,327.4637**	**0.4900**	**0.0000**	**2,337.7528**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.5752	5.6629	4.6866	6.0000e-003	0.2974	0.2809	0.5783	0.1419	0.2595	0.4014	0.0000	550.5419	550.5419	0.1109	0.0000	552.8702
2017	1.0056	8.5964	7.5840	0.0106	0.3373	0.4430	0.7804	0.1533	0.4134	0.5667	0.0000	938.0121	938.0121	0.1865	0.0000	941.9279
2018	1.9385	3.8967	3.5976	5.3600e-003	0.1630	0.2216	0.3846	0.0756	0.2095	0.2851	0.0000	450.3853	450.3853	0.1071	0.0000	452.6352
2019	3.5149	3.0000	2.9829	4.7300e-003	0.0526	0.1641	0.2167	0.0141	0.1560	0.1701	0.0000	388.5223	388.5223	0.0855	0.0000	390.3175
Total	**7.0341**	**21.1560**	**18.8510**	**0.0267**	**0.8504**	**1.1095**	**1.9599**	**0.3849**	**1.0384**	**1.4233**	**0.0000**	**2,327.4616**	**2,327.4616**	**0.4900**	**0.0000**	**2,337.7508**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**47.70**	**0.00**	**28.35**	**52.01**	**0.00**	**22.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	P1 Demolition	Demolition	1/1/2016	1/31/2016	5	21	
2	P1 Demolition Apshalt Haul	Demolition	1/1/2016	1/31/2016	5	21	
3	P1 Mass Grading	Grading	2/1/2016	3/31/2016	5	44	
4	P1 Trenching	Trenching	4/1/2016	5/31/2016	5	43	
5	P2 Mass Grading	Grading	7/1/2016	10/31/2016	5	87	
6	P2 Mass Grading Soil Haul	Grading	7/1/2016	9/30/2016	5	66	
7	P1 Paving	Paving	8/1/2016	8/31/2016	5	23	
8	P2 Trenching	Trenching	10/1/2016	10/31/2016	5	21	
9	P2-P4 Building Construction - Offroad	Building Construction	11/1/2016	11/30/2019	5	804	
10	P3 Demolition	Demolition	1/1/2017	1/31/2017	5	22	
11	P3 Mass Grading	Grading	2/1/2017	5/31/2017	5	86	
12	P3 Mass Grading Soil Haul	Grading	2/1/2017	4/30/2017	5	63	
13	P3 Trenching	Trenching	6/1/2017	6/30/2017	5	22	
14	P4 Mass Grading	Grading	10/1/2017	1/31/2018	5	88	
15	P4 Mass Grading Soil Haul	Grading	10/1/2017	12/29/2017	5	65	
16	P4 Trenching	Trenching	2/1/2018	2/28/2018	5	20	
17	P2 Architectural Coating	Architectural Coating	5/1/2018	8/31/2018	5	89	
18	P3 Architectural Coating	Architectural Coating	1/1/2019	4/30/2019	5	86	
19	P4 Architectural Coating	Architectural Coating	9/1/2019	12/31/2019	5	87	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 248,164; Residential Outdoor: 82,721; Non-Residential Indoor: 156,934; Non-Residential Outdoor: 52,311

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
P1 Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
P1 Demolition	Excavators	3	8.00	162	0.38
P1 Demolition	Rubber Tired Dozers	2	8.00	357	0.40
P1 Demolition	Tractors/Loaders/Backhoes	3	8.00	108	0.37
P1 Demolition Apshalt Haul	Concrete/Industrial Saws	0	8.00	81	0.73
P1 Demolition Apshalt Haul	Excavators	0	8.00	162	0.38
P1 Demolition Apshalt Haul	Rubber Tired Dozers	0	8.00	255	0.40
P3 Demolition	Excavators	3	8.00	162	0.38
P1 Mass Grading	Graders	1	8.00	174	0.41
P1 Mass Grading	Rubber Tired Dozers	2	8.00	357	0.40
P1 Mass Grading	Tractors/Loaders/Backhoes	2	7.00	108	0.37
P1 Trenching	Excavators	1	8.00	168	0.38
P3 Mass Grading	Excavators	1	8.00	162	0.38
P1 Trenching	Other Construction Equipment	2	8.00	238	0.42
P4 Mass Grading	Excavators	1	8.00	162	0.38
P1 Mass Grading	Excavators	1	8.00	162	0.38
P3 Mass Grading Soil Haul	Excavators	0	8.00	162	0.38
P4 Mass Grading Soil Haul	Excavators	0	8.00	162	0.38
P2 Mass Grading Soil Haul	Excavators	0	8.00	162	0.38
P3 Mass Grading Soil Haul	Graders	0	8.00	174	0.41

P4 Mass Grading Soil Haul	Graders	0	8.00	174	0.41
P2 Mass Grading Soil Haul	Graders	0	8.00	174	0.41
P3 Mass Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
P4 Mass Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
P2 Mass Grading	Excavators	1	8.00	162	0.38
P3 Mass Grading	Graders	1	8.00	174	0.41
P4 Mass Grading	Graders	1	8.00	174	0.41
P2 Mass Grading	Rubber Tired Dozers	1	8.00	357	0.40
P2 Mass Grading	Tractors/Loaders/Backhoes	3	7.00	108	0.37
P1 Paving	Cement and Mortar Mixers	1	6.00	10	0.56
P1 Paving	Pavers	1	7.00	100	0.42
P1 Paving	Paving Equipment	2	6.00	104	0.36
P1 Paving	Rollers	1	7.00	95	0.38
P1 Paving	Tractors/Loaders/Backhoes	1	7.00	108	0.37
P2 Trenching	Excavators	1	8.00	168	0.38
P2 Trenching	Other Construction Equipment	1	8.00	238	0.42
P2-P4 Building Construction - Offroad	Cranes	1	6.00	399	0.29
P2-P4 Building Construction - Offroad	Forklifts	2	6.00	145	0.20
P2-P4 Building Construction - Offroad	Generator Sets	1	8.00	49	0.74
P2 Mass Grading	Graders	1	8.00	174	0.41
P2-P4 Building Construction - Offroad	Welders	3	8.00	45	0.45
P3 Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
P2-P4 Building Construction - Offroad	Tractors/Loaders/Backhoes	3	7.00	97	0.37
P3 Demolition	Rubber Tired Dozers	2	8.00	357	0.40
P3 Demolition	Tractors/Loaders/Backhoes	3	8.00	108	0.37
P3 Mass Grading	Rubber Tired Dozers	1	8.00	357	0.40
P3 Mass Grading	Tractors/Loaders/Backhoes	3	7.00	108	0.37

P3 Trenching	Excavators	1	8.00	168	0.38
P3 Trenching	Other Construction Equipment	1	8.00	238	0.42
P2 Mass Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
P4 Mass Grading	Rubber Tired Dozers	1	8.00	357	0.40
P4 Mass Grading	Tractors/Loaders/Backhoes	3	7.00	108	0.37
P4 Trenching	Excavators	1	8.00	168	0.38
P4 Trenching	Other Construction Equipment	1	8.00	238	0.42
P2 Architectural Coating	Air Compressors	1	6.00	78	0.48
P3 Mass Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
P4 Mass Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
P2 Mass Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
P3 Architectural Coating	Air Compressors	1	6.00	78	0.48
P4 Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
P1 Demolition	9	20.00	0.00	80.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P1 Demolition Apshalt Haul	0	0.00	0.00	34.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P1 Mass Grading	6	20.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Trenching	3	10.00	8.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Mass Grading Soil Haul	0	0.00	0.00	4,146.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P4 Mass Grading Soil Haul	0	0.00	0.00	5,866.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P2 Mass Grading	6	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Paving	6	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Trenching	2	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2-P4 Building Construction - Offroad	10	30.00	6.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

P3 Demolition	9	10.00	0.00	79.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P3 Mass Grading	6	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Trenching	2	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Mass Grading	6	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Trenching	2	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Mass Grading Soil Haul	0	0.00	0.00	6,261.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P3 Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 P1 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0200e-003	0.0000	9.0200e-003	1.3700e-003	0.0000	1.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0606	0.6615	0.5009	5.4000e-004		0.0346	0.0346		0.0319	0.0319	0.0000	50.6421	50.6421	0.0153	0.0000	50.9629
Total	**0.0606**	**0.6615**	**0.5009**	**5.4000e-004**	**9.0200e-003**	**0.0346**	**0.0437**	**1.3700e-003**	**0.0319**	**0.0332**	**0.0000**	**50.6421**	**50.6421**	**0.0153**	**0.0000**	**50.9629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.8000e-004	9.2600e-003	0.0127	2.0000e-005	5.0000e-004	1.1000e-004	6.1000e-004	1.4000e-004	1.0000e-004	2.4000e-004	0.0000	2.0048	2.0048	2.0000e-005	0.0000	2.0051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	1.1700e-003	0.0111	2.0000e-005	1.9000e-003	2.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.7117	1.7117	9.0000e-005	0.0000	1.7137
Total	**1.6300e-003**	**0.0104**	**0.0238**	**4.0000e-005**	**2.4000e-003**	**1.3000e-004**	**2.5200e-003**	**6.4000e-004**	**1.1000e-004**	**7.6000e-004**	**0.0000**	**3.7165**	**3.7165**	**1.1000e-004**	**0.0000**	**3.7188**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8600e-003	0.0000	3.8600e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0606	0.6615	0.5009	5.4000e-004		0.0346	0.0346		0.0319	0.0319	0.0000	50.6421	50.6421	0.0153	0.0000	50.9629
Total	**0.0606**	**0.6615**	**0.5009**	**5.4000e-004**	**3.8600e-003**	**0.0346**	**0.0385**	**5.8000e-004**	**0.0319**	**0.0324**	**0.0000**	**50.6421**	**50.6421**	**0.0153**	**0.0000**	**50.9629**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.8000e-004	9.2600e-003	0.0127	2.0000e-005	5.0000e-004	1.1000e-004	6.1000e-004	1.4000e-004	1.0000e-004	2.4000e-004	0.0000	2.0048	2.0048	2.0000e-005	0.0000	2.0051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	1.1700e-003	0.0111	2.0000e-005	1.9000e-003	2.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.7117	1.7117	9.0000e-005	0.0000	1.7137
Total	**1.6300e-003**	**0.0104**	**0.0238**	**4.0000e-005**	**2.4000e-003**	**1.3000e-004**	**2.5200e-003**	**6.4000e-004**	**1.1000e-004**	**7.6000e-004**	**0.0000**	**3.7165**	**3.7165**	**1.1000e-004**	**0.0000**	**3.7188**

3.3 P1 Demolition Apshalt Haul - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8700e-003	0.0000	3.8700e-003	5.9000e-004	0.0000	5.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.8700e-003**	**0.0000**	**3.8700e-003**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	3.9400e-003	5.4000e-003	1.0000e-005	2.1000e-004	5.0000e-005	2.6000e-004	6.0000e-005	4.0000e-005	1.0000e-004	0.0000	0.8520	0.8520	1.0000e-005	0.0000	0.8522
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.8000e-004**	**3.9400e-003**	**5.4000e-003**	**1.0000e-005**	**2.1000e-004**	**5.0000e-005**	**2.6000e-004**	**6.0000e-005**	**4.0000e-005**	**1.0000e-004**	**0.0000**	**0.8520**	**0.8520**	**1.0000e-005**	**0.0000**	**0.8522**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6600e-003	0.0000	1.6600e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.6600e-003**	**0.0000**	**1.6600e-003**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	3.9400e-003	5.4000e-003	1.0000e-005	2.1000e-004	5.0000e-005	2.6000e-004	6.0000e-005	4.0000e-005	1.0000e-004	0.0000	0.8520	0.8520	1.0000e-005	0.0000	0.8522
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.8000e-004**	**3.9400e-003**	**5.4000e-003**	**1.0000e-005**	**2.1000e-004**	**5.0000e-005**	**2.6000e-004**	**6.0000e-005**	**4.0000e-005**	**1.0000e-004**	**0.0000**	**0.8520**	**0.8520**	**1.0000e-005**	**0.0000**	**0.8522**

3.4 P1 Mass Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2766	0.0000	0.2766	0.1469	0.0000	0.1469	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1218	1.3198	0.9331	9.3000e-004		0.0681	0.0681		0.0627	0.0627	0.0000	88.1269	88.1269	0.0266	0.0000	88.6852
Total	**0.1218**	**1.3198**	**0.9331**	**9.3000e-004**	**0.2766**	**0.0681**	**0.3448**	**0.1469**	**0.0627**	**0.2096**	**0.0000**	**88.1269**	**88.1269**	**0.0266**	**0.0000**	**88.6852**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1500e-003	8.9200e-003	0.0153	2.0000e-005	5.6000e-004	1.3000e-004	6.9000e-004	1.6000e-004	1.2000e-004	2.8000e-004	0.0000	1.8616	1.8616	1.0000e-005	0.0000	1.8619
Worker	1.5700e-003	2.4500e-003	0.0233	5.0000e-005	3.9800e-003	3.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.5864	3.5864	2.0000e-004	0.0000	3.5905
Total	**2.7200e-003**	**0.0114**	**0.0386**	**7.0000e-005**	**4.5400e-003**	**1.6000e-004**	**4.7000e-003**	**1.2200e-003**	**1.5000e-004**	**1.3700e-003**	**0.0000**	**5.4480**	**5.4480**	**2.1000e-004**	**0.0000**	**5.4524**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1183	0.0000	0.1183	0.0628	0.0000	0.0628	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1218	1.3198	0.9331	9.3000e-004		0.0681	0.0681		0.0627	0.0627	0.0000	88.1268	88.1268	0.0266	0.0000	88.6851
Total	**0.1218**	**1.3198**	**0.9331**	**9.3000e-004**	**0.1183**	**0.0681**	**0.1864**	**0.0628**	**0.0627**	**0.1255**	**0.0000**	**88.1268**	**88.1268**	**0.0266**	**0.0000**	**88.6851**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1500e-003	8.9200e-003	0.0153	2.0000e-005	5.6000e-004	1.3000e-004	6.9000e-004	1.6000e-004	1.2000e-004	2.8000e-004	0.0000	1.8616	1.8616	1.0000e-005	0.0000	1.8619
Worker	1.5700e-003	2.4500e-003	0.0233	5.0000e-005	3.9800e-003	3.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.5864	3.5864	2.0000e-004	0.0000	3.5905
Total	**2.7200e-003**	**0.0114**	**0.0386**	**7.0000e-005**	**4.5400e-003**	**1.6000e-004**	**4.7000e-003**	**1.2200e-003**	**1.5000e-004**	**1.3700e-003**	**0.0000**	**5.4480**	**5.4480**	**2.1000e-004**	**0.0000**	**5.4524**

3.5 P1 Trenching - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6600e-003	0.0988	0.0764	1.2000e-004		4.8600e-003	4.8600e-003		4.4700e-003	4.4700e-003	0.0000	11.1231	11.1231	3.3600e-003	0.0000	11.1936
Total	**8.6600e-003**	**0.0988**	**0.0764**	**1.2000e-004**		**4.8600e-003**	**4.8600e-003**		**4.4700e-003**	**4.4700e-003**	**0.0000**	**11.1231**	**11.1231**	**3.3600e-003**	**0.0000**	**11.1936**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0174	0.0298	4.0000e-005	1.1000e-003	2.5000e-004	1.3500e-003	3.1000e-004	2.3000e-004	5.4000e-004	0.0000	3.6386	3.6386	3.0000e-005	0.0000	3.6392
Worker	7.7000e-004	1.2000e-003	0.0114	2.0000e-005	1.9400e-003	2.0000e-005	1.9600e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.7524	1.7524	1.0000e-004	0.0000	1.7545
Total	**3.0200e-003**	**0.0186**	**0.0412**	**6.0000e-005**	**3.0400e-003**	**2.7000e-004**	**3.3100e-003**	**8.3000e-004**	**2.4000e-004**	**1.0700e-003**	**0.0000**	**5.3910**	**5.3910**	**1.3000e-004**	**0.0000**	**5.3937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6600e-003	0.0988	0.0764	1.2000e-004		4.8600e-003	4.8600e-003		4.4700e-003	4.4700e-003	0.0000	11.1231	11.1231	3.3600e-003	0.0000	11.1936
Total	**8.6600e-003**	**0.0988**	**0.0764**	**1.2000e-004**		**4.8600e-003**	**4.8600e-003**		**4.4700e-003**	**4.4700e-003**	**0.0000**	**11.1231**	**11.1231**	**3.3600e-003**	**0.0000**	**11.1936**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0174	0.0298	4.0000e-005	1.1000e-003	2.5000e-004	1.3500e-003	3.1000e-004	2.3000e-004	5.4000e-004	0.0000	3.6386	3.6386	3.0000e-005	0.0000	3.6392
Worker	7.7000e-004	1.2000e-003	0.0114	2.0000e-005	1.9400e-003	2.0000e-005	1.9600e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.7524	1.7524	1.0000e-004	0.0000	1.7545
Total	**3.0200e-003**	**0.0186**	**0.0412**	**6.0000e-005**	**3.0400e-003**	**2.7000e-004**	**3.3100e-003**	**8.3000e-004**	**2.4000e-004**	**1.0700e-003**	**0.0000**	**5.3910**	**5.3910**	**1.3000e-004**	**0.0000**	**5.3937**

3.6 P2 Mass Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2620	0.0000	0.2620	0.1440	0.0000	0.1440	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1799	1.9028	1.3088	1.4400e-003		0.1060	0.1060		0.0975	0.0975	0.0000	135.6775	135.6775	0.0409	0.0000	136.5370
Total	**0.1799**	**1.9028**	**1.3088**	**1.4400e-003**	**0.2620**	**0.1060**	**0.3680**	**0.1440**	**0.0975**	**0.2415**	**0.0000**	**135.6775**	**135.6775**	**0.0409**	**0.0000**	**136.5370**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	9.7000e-004	9.2100e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4183	1.4183	8.0000e-005	0.0000	1.4199
Total	**6.2000e-004**	**9.7000e-004**	**9.2100e-003**	**2.0000e-005**	**1.5700e-003**	**1.0000e-005**	**1.5900e-003**	**4.2000e-004**	**1.0000e-005**	**4.3000e-004**	**0.0000**	**1.4183**	**1.4183**	**8.0000e-005**	**0.0000**	**1.4199**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1120	0.0000	0.1120	0.0616	0.0000	0.0616	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1799	1.9028	1.3088	1.4400e-003		0.1060	0.1060		0.0975	0.0975	0.0000	135.6774	135.6774	0.0409	0.0000	136.5368
Total	**0.1799**	**1.9028**	**1.3088**	**1.4400e-003**	**0.1120**	**0.1060**	**0.2180**	**0.0616**	**0.0975**	**0.1591**	**0.0000**	**135.6774**	**135.6774**	**0.0409**	**0.0000**	**136.5368**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	9.7000e-004	9.2100e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4183	1.4183	8.0000e-005	0.0000	1.4199
Total	**6.2000e-004**	**9.7000e-004**	**9.2100e-003**	**2.0000e-005**	**1.5700e-003**	**1.0000e-005**	**1.5900e-003**	**4.2000e-004**	**1.0000e-005**	**4.3000e-004**	**0.0000**	**1.4183**	**1.4183**	**8.0000e-005**	**0.0000**	**1.4199**

3.7 P2 Mass Grading Soil Haul - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.1200e-003**	**0.0000**	**2.1200e-003**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0692	0.7249	0.9947	1.7300e-003	0.0392	8.7300e-003	0.0479	0.0108	8.0200e-003	0.0188	0.0000	156.9003	156.9003	1.1800e-003	0.0000	156.9251
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0692**	**0.7249**	**0.9947**	**1.7300e-003**	**0.0392**	**8.7300e-003**	**0.0479**	**0.0108**	**8.0200e-003**	**0.0188**	**0.0000**	**156.9003**	**156.9003**	**1.1800e-003**	**0.0000**	**156.9251**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.1000e-004	0.0000	9.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**9.1000e-004**	**0.0000**	**9.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0692	0.7249	0.9947	1.7300e-003	0.0392	8.7300e-003	0.0479	0.0108	8.0200e-003	0.0188	0.0000	156.9003	156.9003	1.1800e-003	0.0000	156.9251
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0692**	**0.7249**	**0.9947**	**1.7300e-003**	**0.0392**	**8.7300e-003**	**0.0479**	**0.0108**	**8.0200e-003**	**0.0188**	**0.0000**	**156.9003**	**156.9003**	**1.1800e-003**	**0.0000**	**156.9251**

3.8 P1 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0204	0.1864	0.1254	1.6000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	15.3377	15.3377	4.5400e-003	0.0000	15.4330
Paving	7.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0211**	**0.1864**	**0.1254**	**1.6000e-004**		**0.0141**	**0.0141**		**0.0130**	**0.0130**	**0.0000**	**15.3377**	**15.3377**	**4.5400e-003**	**0.0000**	**15.4330**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	1.2800e-003	0.0122	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.8747	1.8747	1.0000e-004	0.0000	1.8769
Total	**8.2000e-004**	**1.2800e-003**	**0.0122**	**2.0000e-005**	**2.0800e-003**	**2.0000e-005**	**2.1000e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.8747**	**1.8747**	**1.0000e-004**	**0.0000**	**1.8769**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0204	0.1864	0.1254	1.6000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	15.3377	15.3377	4.5400e-003	0.0000	15.4330
Paving	7.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0211**	**0.1864**	**0.1254**	**1.6000e-004**		**0.0141**	**0.0141**		**0.0130**	**0.0130**	**0.0000**	**15.3377**	**15.3377**	**4.5400e-003**	**0.0000**	**15.4330**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	1.2800e-003	0.0122	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.8747	1.8747	1.0000e-004	0.0000	1.8769
Total	**8.2000e-004**	**1.2800e-003**	**0.0122**	**2.0000e-005**	**2.0800e-003**	**2.0000e-005**	**2.1000e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.8747**	**1.8747**	**1.0000e-004**	**0.0000**	**1.8769**

3.9 P2 Trenching - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2300e-003	0.0483	0.0373	6.0000e-005		2.3700e-003	2.3700e-003		2.1800e-003	2.1800e-003	0.0000	5.4322	5.4322	1.6400e-003	0.0000	5.4666
Total	**4.2300e-003**	**0.0483**	**0.0373**	**6.0000e-005**		**2.3700e-003**	**2.3700e-003**		**2.1800e-003**	**2.1800e-003**	**0.0000**	**5.4322**	**5.4322**	**1.6400e-003**	**0.0000**	**5.4666**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.8000e-004	5.5600e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.8558	0.8558	5.0000e-005	0.0000	0.8568
Total	**3.8000e-004**	**5.8000e-004**	**5.5600e-003**	**1.0000e-005**	**9.5000e-004**	**1.0000e-005**	**9.6000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**0.8558**	**0.8558**	**5.0000e-005**	**0.0000**	**0.8568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2300e-003	0.0483	0.0373	6.0000e-005		2.3700e-003	2.3700e-003		2.1800e-003	2.1800e-003	0.0000	5.4322	5.4322	1.6400e-003	0.0000	5.4666
Total	**4.2300e-003**	**0.0483**	**0.0373**	**6.0000e-005**		**2.3700e-003**	**2.3700e-003**		**2.1800e-003**	**2.1800e-003**	**0.0000**	**5.4322**	**5.4322**	**1.6400e-003**	**0.0000**	**5.4666**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.8000e-004	5.5600e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.8558	0.8558	5.0000e-005	0.0000	0.8568
Total	**3.8000e-004**	**5.8000e-004**	**5.5600e-003**	**1.0000e-005**	**9.5000e-004**	**1.0000e-005**	**9.6000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**0.8558**	**0.8558**	**5.0000e-005**	**0.0000**	**0.8568**

3.10 P2-P4 Building Construction - Offroad - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0960	0.6562	0.5163	6.9000e-004		0.0412	0.0412		0.0390	0.0390	0.0000	59.5741	59.5741	0.0164	0.0000	59.9181
Total	**0.0960**	**0.6562**	**0.5163**	**6.9000e-004**		**0.0412**	**0.0412**		**0.0390**	**0.0390**	**0.0000**	**59.5741**	**59.5741**	**0.0164**	**0.0000**	**59.9181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7300e-003	0.0134	0.0229	3.0000e-005	8.4000e-004	1.9000e-004	1.0300e-003	2.4000e-004	1.8000e-004	4.2000e-004	0.0000	2.7924	2.7924	2.0000e-005	0.0000	2.7929
Worker	2.3600e-003	3.6700e-003	0.0349	7.0000e-005	5.9600e-003	5.0000e-005	6.0100e-003	1.5900e-003	4.0000e-005	1.6300e-003	0.0000	5.3796	5.3796	2.9000e-004	0.0000	5.3858
Total	**4.0900e-003**	**0.0171**	**0.0578**	**1.0000e-004**	**6.8000e-003**	**2.4000e-004**	**7.0400e-003**	**1.8300e-003**	**2.2000e-004**	**2.0500e-003**	**0.0000**	**8.1720**	**8.1720**	**3.1000e-004**	**0.0000**	**8.1786**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0960	0.6562	0.5163	6.9000e-004		0.0412	0.0412		0.0390	0.0390	0.0000	59.5740	59.5740	0.0164	0.0000	59.9181
Total	**0.0960**	**0.6562**	**0.5163**	**6.9000e-004**		**0.0412**	**0.0412**		**0.0390**	**0.0390**	**0.0000**	**59.5740**	**59.5740**	**0.0164**	**0.0000**	**59.9181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7300e-003	0.0134	0.0229	3.0000e-005	8.4000e-004	1.9000e-004	1.0300e-003	2.4000e-004	1.8000e-004	4.2000e-004	0.0000	2.7924	2.7924	2.0000e-005	0.0000	2.7929
Worker	2.3600e-003	3.6700e-003	0.0349	7.0000e-005	5.9600e-003	5.0000e-005	6.0100e-003	1.5900e-003	4.0000e-005	1.6300e-003	0.0000	5.3796	5.3796	2.9000e-004	0.0000	5.3858
Total	**4.0900e-003**	**0.0171**	**0.0578**	**1.0000e-004**	**6.8000e-003**	**2.4000e-004**	**7.0400e-003**	**1.8300e-003**	**2.2000e-004**	**2.0500e-003**	**0.0000**	**8.1720**	**8.1720**	**3.1000e-004**	**0.0000**	**8.1786**

3.10 P2-P4 Building Construction - Offroad - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5160	3.6546	2.9536	4.0700e-003		0.2221	0.2221		0.2102	0.2102	0.0000	348.2606	348.2606	0.0940	0.0000	350.2341
Total	**0.5160**	**3.6546**	**2.9536**	**4.0700e-003**		**0.2221**	**0.2221**		**0.2102**	**0.2102**	**0.0000**	**348.2606**	**348.2606**	**0.0940**	**0.0000**	**350.2341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5600e-003	0.0711	0.1292	1.8000e-004	4.9800e-003	9.8000e-004	5.9600e-003	1.4300e-003	9.0000e-004	2.3300e-003	0.0000	16.2482	16.2482	1.2000e-004	0.0000	16.2509
Worker	0.0124	0.0195	0.1841	4.1000e-004	0.0353	2.7000e-004	0.0355	9.3800e-003	2.5000e-004	9.6300e-003	0.0000	30.6106	30.6106	1.5900e-003	0.0000	30.6440
Total	**0.0219**	**0.0906**	**0.3133**	**5.9000e-004**	**0.0402**	**1.2500e-003**	**0.0415**	**0.0108**	**1.1500e-003**	**0.0120**	**0.0000**	**46.8588**	**46.8588**	**1.7100e-003**	**0.0000**	**46.8949**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5160	3.6546	2.9536	4.0700e-003		0.2221	0.2221		0.2102	0.2102	0.0000	348.2602	348.2602	0.0940	0.0000	350.2337
Total	**0.5160**	**3.6546**	**2.9536**	**4.0700e-003**		**0.2221**	**0.2221**		**0.2102**	**0.2102**	**0.0000**	**348.2602**	**348.2602**	**0.0940**	**0.0000**	**350.2337**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5600e-003	0.0711	0.1292	1.8000e-004	4.9800e-003	9.8000e-004	5.9600e-003	1.4300e-003	9.0000e-004	2.3300e-003	0.0000	16.2482	16.2482	1.2000e-004	0.0000	16.2509
Worker	0.0124	0.0195	0.1841	4.1000e-004	0.0353	2.7000e-004	0.0355	9.3800e-003	2.5000e-004	9.6300e-003	0.0000	30.6106	30.6106	1.5900e-003	0.0000	30.6440
Total	**0.0219**	**0.0906**	**0.3133**	**5.9000e-004**	**0.0402**	**1.2500e-003**	**0.0415**	**0.0108**	**1.1500e-003**	**0.0120**	**0.0000**	**46.8588**	**46.8588**	**1.7100e-003**	**0.0000**	**46.8949**

3.10 P2-P4 Building Construction - Offroad - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4517	3.2786	2.8321	4.0900e-003		0.1899	0.1899		0.1799	0.1799	0.0000	345.8119	345.8119	0.0917	0.0000	347.7377
Total	**0.4517**	**3.2786**	**2.8321**	**4.0900e-003**		**0.1899**	**0.1899**		**0.1799**	**0.1799**	**0.0000**	**345.8119**	**345.8119**	**0.0917**	**0.0000**	**347.7377**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.9400e-003	0.0648	0.1234	1.8000e-004	5.0000e-003	9.1000e-004	5.9100e-003	1.4300e-003	8.4000e-004	2.2700e-003	0.0000	16.0377	16.0377	1.2000e-004	0.0000	16.0403
Worker	0.0111	0.0177	0.1658	4.1000e-004	0.0354	2.6000e-004	0.0356	9.4100e-003	2.4000e-004	9.6600e-003	0.0000	29.6125	29.6125	1.4700e-003	0.0000	29.6435
Total	**0.0200**	**0.0825**	**0.2891**	**5.9000e-004**	**0.0404**	**1.1700e-003**	**0.0416**	**0.0108**	**1.0800e-003**	**0.0119**	**0.0000**	**45.6502**	**45.6502**	**1.5900e-003**	**0.0000**	**45.6837**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4517	3.2786	2.8321	4.0900e-003		0.1899	0.1899		0.1799	0.1799	0.0000	345.8115	345.8115	0.0917	0.0000	347.7372
Total	**0.4517**	**3.2786**	**2.8321**	**4.0900e-003**		**0.1899**	**0.1899**		**0.1799**	**0.1799**	**0.0000**	**345.8115**	**345.8115**	**0.0917**	**0.0000**	**347.7372**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.9400e-003	0.0648	0.1234	1.8000e-004	5.0000e-003	9.1000e-004	5.9100e-003	1.4300e-003	8.4000e-004	2.2700e-003	0.0000	16.0377	16.0377	1.2000e-004	0.0000	16.0403
Worker	0.0111	0.0177	0.1658	4.1000e-004	0.0354	2.6000e-004	0.0356	9.4100e-003	2.4000e-004	9.6600e-003	0.0000	29.6125	29.6125	1.4700e-003	0.0000	29.6435
Total	**0.0200**	**0.0825**	**0.2891**	**5.9000e-004**	**0.0404**	**1.1700e-003**	**0.0416**	**0.0108**	**1.0800e-003**	**0.0119**	**0.0000**	**45.6502**	**45.6502**	**1.5900e-003**	**0.0000**	**45.6837**

3.10 P2-P4 Building Construction - Offroad - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3665	2.7651	2.5121	3.7400e-003		0.1518	0.1518		0.1438	0.1438	0.0000	313.2333	313.2333	0.0816	0.0000	314.9478
Total	**0.3665**	**2.7651**	**2.5121**	**3.7400e-003**		**0.1518**	**0.1518**		**0.1438**	**0.1438**	**0.0000**	**313.2333**	**313.2333**	**0.0816**	**0.0000**	**314.9478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4900e-003	0.0542	0.1059	1.7000e-004	4.5800e-003	7.7000e-004	5.3500e-003	1.3100e-003	7.1000e-004	2.0200e-003	0.0000	14.4278	14.4278	1.1000e-004	0.0000	14.4301
Worker	9.3000e-003	0.0148	0.1387	3.8000e-004	0.0324	2.4000e-004	0.0326	8.6200e-003	2.2000e-004	8.8400e-003	0.0000	26.1546	26.1546	1.2600e-003	0.0000	26.1811
Total	**0.0168**	**0.0690**	**0.2446**	**5.5000e-004**	**0.0370**	**1.0100e-003**	**0.0380**	**9.9300e-003**	**9.3000e-004**	**0.0109**	**0.0000**	**40.5824**	**40.5824**	**1.3700e-003**	**0.0000**	**40.6112**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3665	2.7651	2.5121	3.7400e-003		0.1518	0.1518		0.1438	0.1438	0.0000	313.2329	313.2329	0.0816	0.0000	314.9474
Total	**0.3665**	**2.7651**	**2.5121**	**3.7400e-003**		**0.1518**	**0.1518**		**0.1438**	**0.1438**	**0.0000**	**313.2329**	**313.2329**	**0.0816**	**0.0000**	**314.9474**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4900e-003	0.0542	0.1059	1.7000e-004	4.5800e-003	7.7000e-004	5.3500e-003	1.3100e-003	7.1000e-004	2.0200e-003	0.0000	14.4278	14.4278	1.1000e-004	0.0000	14.4301
Worker	9.3000e-003	0.0148	0.1387	3.8000e-004	0.0324	2.4000e-004	0.0326	8.6200e-003	2.2000e-004	8.8400e-003	0.0000	26.1546	26.1546	1.2600e-003	0.0000	26.1811
Total	**0.0168**	**0.0690**	**0.2446**	**5.5000e-004**	**0.0370**	**1.0100e-003**	**0.0380**	**9.9300e-003**	**9.3000e-004**	**0.0109**	**0.0000**	**40.5824**	**40.5824**	**1.3700e-003**	**0.0000**	**40.6112**

3.11 P3 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0603	0.6507	0.5070	5.6000e-004		0.0338	0.0338		0.0311	0.0311	0.0000	52.2390	52.2390	0.0160	0.0000	52.5752
Total	**0.0603**	**0.6507**	**0.5070**	**5.6000e-004**	**8.8600e-003**	**0.0338**	**0.0427**	**1.3400e-003**	**0.0311**	**0.0324**	**0.0000**	**52.2390**	**52.2390**	**0.0160**	**0.0000**	**52.5752**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.3000e-004	8.2600e-003	0.0121	2.0000e-005	4.9000e-004	1.0000e-004	5.9000e-004	1.4000e-004	9.0000e-005	2.3000e-004	0.0000	1.9513	1.9513	1.0000e-005	0.0000	1.9516
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	5.5000e-004	5.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8634	0.8634	4.0000e-005	0.0000	0.8643
Total	**1.1800e-003**	**8.8100e-003**	**0.0173**	**3.0000e-005**	**1.4800e-003**	**1.1000e-004**	**1.5900e-003**	**4.0000e-004**	**1.0000e-004**	**5.0000e-004**	**0.0000**	**2.8146**	**2.8146**	**5.0000e-005**	**0.0000**	**2.8159**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7900e-003	0.0000	3.7900e-003	5.7000e-004	0.0000	5.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0603	0.6507	0.5070	5.6000e-004		0.0338	0.0338		0.0311	0.0311	0.0000	52.2390	52.2390	0.0160	0.0000	52.5751
Total	**0.0603**	**0.6507**	**0.5070**	**5.6000e-004**	**3.7900e-003**	**0.0338**	**0.0376**	**5.7000e-004**	**0.0311**	**0.0317**	**0.0000**	**52.2390**	**52.2390**	**0.0160**	**0.0000**	**52.5751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.3000e-004	8.2600e-003	0.0121	2.0000e-005	4.9000e-004	1.0000e-004	5.9000e-004	1.4000e-004	9.0000e-005	2.3000e-004	0.0000	1.9513	1.9513	1.0000e-005	0.0000	1.9516
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	5.5000e-004	5.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8634	0.8634	4.0000e-005	0.0000	0.8643
Total	**1.1800e-003**	**8.8100e-003**	**0.0173**	**3.0000e-005**	**1.4800e-003**	**1.1000e-004**	**1.5900e-003**	**4.0000e-004**	**1.0000e-004**	**5.0000e-004**	**0.0000**	**2.8146**	**2.8146**	**5.0000e-005**	**0.0000**	**2.8159**

3.12 P3 Mass Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2590	0.0000	0.2590	0.1423	0.0000	0.1423	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1680	1.7640	1.2544	1.4200e-003		0.0975	0.0975		0.0897	0.0897	0.0000	131.9697	131.9697	0.0404	0.0000	132.8188
Total	**0.1680**	**1.7640**	**1.2544**	**1.4200e-003**	**0.2590**	**0.0975**	**0.3564**	**0.1423**	**0.0897**	**0.2320**	**0.0000**	**131.9697**	**131.9697**	**0.0404**	**0.0000**	**132.8188**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	8.6000e-004	8.1200e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5700e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3500	1.3500	7.0000e-005	0.0000	1.3515
Total	**5.5000e-004**	**8.6000e-004**	**8.1200e-003**	**2.0000e-005**	**1.5500e-003**	**1.0000e-005**	**1.5700e-003**	**4.1000e-004**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**1.3500**	**1.3500**	**7.0000e-005**	**0.0000**	**1.3515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1107	0.0000	0.1107	0.0609	0.0000	0.0609	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1680	1.7640	1.2544	1.4200e-003		0.0975	0.0975		0.0897	0.0897	0.0000	131.9695	131.9695	0.0404	0.0000	132.8187
Total	**0.1680**	**1.7640**	**1.2544**	**1.4200e-003**	**0.1107**	**0.0975**	**0.2082**	**0.0609**	**0.0897**	**0.1505**	**0.0000**	**131.9695**	**131.9695**	**0.0404**	**0.0000**	**132.8187**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	8.6000e-004	8.1200e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5700e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3500	1.3500	7.0000e-005	0.0000	1.3515
Total	**5.5000e-004**	**8.6000e-004**	**8.1200e-003**	**2.0000e-005**	**1.5500e-003**	**1.0000e-005**	**1.5700e-003**	**4.1000e-004**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**1.3500**	**1.3500**	**7.0000e-005**	**0.0000**	**1.3515**

3.13 P3 Mass Grading Soil Haul - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4100e-003	0.0000	1.4100e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.4100e-003**	**0.0000**	**1.4100e-003**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0438	0.4334	0.6343	1.1400e-003	0.0260	5.1200e-003	0.0311	7.1200e-003	4.7100e-003	0.0118	0.0000	102.4038	102.4038	7.6000e-004	0.0000	102.4196
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0438**	**0.4334**	**0.6343**	**1.1400e-003**	**0.0260**	**5.1200e-003**	**0.0311**	**7.1200e-003**	**4.7100e-003**	**0.0118**	**0.0000**	**102.4038**	**102.4038**	**7.6000e-004**	**0.0000**	**102.4196**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.0000e-004	0.0000	6.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**0.0000**	**6.0000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0438	0.4334	0.6343	1.1400e-003	0.0260	5.1200e-003	0.0311	7.1200e-003	4.7100e-003	0.0118	0.0000	102.4038	102.4038	7.6000e-004	0.0000	102.4196
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0438**	**0.4334**	**0.6343**	**1.1400e-003**	**0.0260**	**5.1200e-003**	**0.0311**	**7.1200e-003**	**4.7100e-003**	**0.0118**	**0.0000**	**102.4038**	**102.4038**	**7.6000e-004**	**0.0000**	**102.4196**

3.14 P3 Trenching - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1300e-003	0.0458	0.0390	6.0000e-005		2.2500e-003	2.2500e-003		2.0700e-003	2.0700e-003	0.0000	5.6013	5.6013	1.7200e-003	0.0000	5.6374
Total	**4.1300e-003**	**0.0458**	**0.0390**	**6.0000e-005**		**2.2500e-003**	**2.2500e-003**		**2.0700e-003**	**2.0700e-003**	**0.0000**	**5.6013**	**5.6013**	**1.7200e-003**	**0.0000**	**5.6374**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	5.5000e-004	5.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8634	0.8634	4.0000e-005	0.0000	0.8643
Total	**3.5000e-004**	**5.5000e-004**	**5.1900e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8634**	**0.8634**	**4.0000e-005**	**0.0000**	**0.8643**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1300e-003	0.0458	0.0390	6.0000e-005		2.2500e-003	2.2500e-003		2.0700e-003	2.0700e-003	0.0000	5.6013	5.6013	1.7200e-003	0.0000	5.6374
Total	**4.1300e-003**	**0.0458**	**0.0390**	**6.0000e-005**		**2.2500e-003**	**2.2500e-003**		**2.0700e-003**	**2.0700e-003**	**0.0000**	**5.6013**	**5.6013**	**1.7200e-003**	**0.0000**	**5.6374**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	5.5000e-004	5.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8634	0.8634	4.0000e-005	0.0000	0.8643
Total	**3.5000e-004**	**5.5000e-004**	**5.1900e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8634**	**0.8634**	**4.0000e-005**	**0.0000**	**0.8643**

3.15 P4 Mass Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2650	0.0000	0.2650	0.1457	0.0000	0.1457	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1270	1.3333	0.9481	1.0700e-003		0.0737	0.0737		0.0678	0.0678	0.0000	99.7445	99.7445	0.0306	0.0000	100.3863
Total	**0.1270**	**1.3333**	**0.9481**	**1.0700e-003**	**0.2650**	**0.0737**	**0.3386**	**0.1457**	**0.0678**	**0.2134**	**0.0000**	**99.7445**	**99.7445**	**0.0306**	**0.0000**	**100.3863**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	6.5000e-004	6.1400e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0204	1.0204	5.0000e-005	0.0000	1.0215
Total	**4.1000e-004**	**6.5000e-004**	**6.1400e-003**	**1.0000e-005**	**1.1700e-003**	**1.0000e-005**	**1.1800e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0204**	**1.0204**	**5.0000e-005**	**0.0000**	**1.0215**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1133	0.0000	0.1133	0.0623	0.0000	0.0623	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1270	1.3333	0.9481	1.0700e-003		0.0737	0.0737		0.0678	0.0678	0.0000	99.7444	99.7444	0.0306	0.0000	100.3862
Total	**0.1270**	**1.3333**	**0.9481**	**1.0700e-003**	**0.1133**	**0.0737**	**0.1869**	**0.0623**	**0.0678**	**0.1300**	**0.0000**	**99.7444**	**99.7444**	**0.0306**	**0.0000**	**100.3862**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	6.5000e-004	6.1400e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0204	1.0204	5.0000e-005	0.0000	1.0215
Total	**4.1000e-004**	**6.5000e-004**	**6.1400e-003**	**1.0000e-005**	**1.1700e-003**	**1.0000e-005**	**1.1800e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0204**	**1.0204**	**5.0000e-005**	**0.0000**	**1.0215**

3.15 P4 Mass Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2650	0.0000	0.2650	0.1457	0.0000	0.1457	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0393	0.4088	0.3151	3.8000e-004		0.0221	0.0221		0.0203	0.0203	0.0000	34.7136	34.7136	0.0108	0.0000	34.9405
Total	**0.0393**	**0.4088**	**0.3151**	**3.8000e-004**	**0.2650**	**0.0221**	**0.2871**	**0.1457**	**0.0203**	**0.1660**	**0.0000**	**34.7136**	**34.7136**	**0.0108**	**0.0000**	**34.9405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	2.1000e-004	1.9500e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	2.0000e-005	0.0000	0.3483
Total	**1.3000e-004**	**2.1000e-004**	**1.9500e-003**	**0.0000**	**4.2000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3479**	**0.3479**	**2.0000e-005**	**0.0000**	**0.3483**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1133	0.0000	0.1133	0.0623	0.0000	0.0623	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0393	0.4088	0.3151	3.8000e-004		0.0221	0.0221		0.0203	0.0203	0.0000	34.7135	34.7135	0.0108	0.0000	34.9405
Total	**0.0393**	**0.4088**	**0.3151**	**3.8000e-004**	**0.1133**	**0.0221**	**0.1354**	**0.0623**	**0.0203**	**0.0826**	**0.0000**	**34.7135**	**34.7135**	**0.0108**	**0.0000**	**34.9405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	2.1000e-004	1.9500e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	2.0000e-005	0.0000	0.3483
Total	**1.3000e-004**	**2.1000e-004**	**1.9500e-003**	**0.0000**	**4.2000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3479**	**0.3479**	**2.0000e-005**	**0.0000**	**0.3483**

3.16 P4 Mass Grading Soil Haul - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9900e-003	0.0000	1.9900e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.9900e-003**	**0.0000**	**1.9900e-003**	**3.0000e-004**	**0.0000**	**3.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0620	0.6132	0.8975	1.6200e-003	0.0367	7.2400e-003	0.0440	0.0101	6.6600e-003	0.0167	0.0000	144.8868	144.8868	1.0700e-003	0.0000	144.9092
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0620**	**0.6132**	**0.8975**	**1.6200e-003**	**0.0367**	**7.2400e-003**	**0.0440**	**0.0101**	**6.6600e-003**	**0.0167**	**0.0000**	**144.8868**	**144.8868**	**1.0700e-003**	**0.0000**	**144.9092**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.5000e-004	0.0000	8.5000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**8.5000e-004**	**0.0000**	**8.5000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0620	0.6132	0.8975	1.6200e-003	0.0367	7.2400e-003	0.0440	0.0101	6.6600e-003	0.0167	0.0000	144.8868	144.8868	1.0700e-003	0.0000	144.9092
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0620**	**0.6132**	**0.8975**	**1.6200e-003**	**0.0367**	**7.2400e-003**	**0.0440**	**0.0101**	**6.6600e-003**	**0.0167**	**0.0000**	**144.8868**	**144.8868**	**1.0700e-003**	**0.0000**	**144.9092**

3.17 P4 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0700e-003	0.0329	0.0348	5.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	5.0119	5.0119	1.5600e-003	0.0000	5.0447
Total	**3.0700e-003**	**0.0329**	**0.0348**	**5.0000e-005**		**1.6000e-003**	**1.6000e-003**		**1.4700e-003**	**1.4700e-003**	**0.0000**	**5.0119**	**5.0119**	**1.5600e-003**	**0.0000**	**5.0447**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	4.5000e-004	4.2300e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7564	0.7564	4.0000e-005	0.0000	0.7572
Total	**2.8000e-004**	**4.5000e-004**	**4.2300e-003**	**1.0000e-005**	**9.0000e-004**	**1.0000e-005**	**9.1000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7564**	**0.7564**	**4.0000e-005**	**0.0000**	**0.7572**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0700e-003	0.0329	0.0348	5.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	5.0119	5.0119	1.5600e-003	0.0000	5.0447
Total	**3.0700e-003**	**0.0329**	**0.0348**	**5.0000e-005**		**1.6000e-003**	**1.6000e-003**		**1.4700e-003**	**1.4700e-003**	**0.0000**	**5.0119**	**5.0119**	**1.5600e-003**	**0.0000**	**5.0447**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	4.5000e-004	4.2300e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7564	0.7564	4.0000e-005	0.0000	0.7572
Total	**2.8000e-004**	**4.5000e-004**	**4.2300e-003**	**1.0000e-005**	**9.0000e-004**	**1.0000e-005**	**9.1000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7564**	**0.7564**	**4.0000e-005**	**0.0000**	**0.7572**

3.18 P2 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0893	0.0825	1.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	11.3620	11.3620	1.0800e-003	0.0000	11.3847
Total	**1.4215**	**0.0893**	**0.0825**	**1.3000e-004**		**6.7000e-003**	**6.7000e-003**		**6.7000e-003**	**6.7000e-003**	**0.0000**	**11.3620**	**11.3620**	**1.0800e-003**	**0.0000**	**11.3847**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5200e-003	4.0200e-003	0.0377	9.0000e-005	8.0400e-003	6.0000e-005	8.1000e-003	2.1400e-003	6.0000e-005	2.2000e-003	0.0000	6.7318	6.7318	3.4000e-004	0.0000	6.7389
Total	**2.5200e-003**	**4.0200e-003**	**0.0377**	**9.0000e-005**	**8.0400e-003**	**6.0000e-005**	**8.1000e-003**	**2.1400e-003**	**6.0000e-005**	**2.2000e-003**	**0.0000**	**6.7318**	**6.7318**	**3.4000e-004**	**0.0000**	**6.7389**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0893	0.0825	1.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	11.3620	11.3620	1.0800e-003	0.0000	11.3847
Total	**1.4215**	**0.0893**	**0.0825**	**1.3000e-004**		**6.7000e-003**	**6.7000e-003**		**6.7000e-003**	**6.7000e-003**	**0.0000**	**11.3620**	**11.3620**	**1.0800e-003**	**0.0000**	**11.3847**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5200e-003	4.0200e-003	0.0377	9.0000e-005	8.0400e-003	6.0000e-005	8.1000e-003	2.1400e-003	6.0000e-005	2.2000e-003	0.0000	6.7318	6.7318	3.4000e-004	0.0000	6.7389
Total	**2.5200e-003**	**4.0200e-003**	**0.0377**	**9.0000e-005**	**8.0400e-003**	**6.0000e-005**	**8.1000e-003**	**2.1400e-003**	**6.0000e-005**	**2.2000e-003**	**0.0000**	**6.7318**	**6.7318**	**3.4000e-004**	**0.0000**	**6.7389**

3.19 P3 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.0789	0.0792	1.3000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	10.9790	10.9790	9.3000e-004	0.0000	10.9985
Total	**1.5635**	**0.0789**	**0.0792**	**1.3000e-004**		**5.5400e-003**	**5.5400e-003**		**5.5400e-003**	**5.5400e-003**	**0.0000**	**10.9790**	**10.9790**	**9.3000e-004**	**0.0000**	**10.9985**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	3.5600e-003	0.0333	9.0000e-005	7.7700e-003	6.0000e-005	7.8300e-003	2.0700e-003	5.0000e-005	2.1200e-003	0.0000	6.2742	6.2742	3.0000e-004	0.0000	6.2805
Total	**2.2300e-003**	**3.5600e-003**	**0.0333**	**9.0000e-005**	**7.7700e-003**	**6.0000e-005**	**7.8300e-003**	**2.0700e-003**	**5.0000e-005**	**2.1200e-003**	**0.0000**	**6.2742**	**6.2742**	**3.0000e-004**	**0.0000**	**6.2805**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.0789	0.0792	1.3000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	10.9790	10.9790	9.3000e-004	0.0000	10.9985
Total	**1.5635**	**0.0789**	**0.0792**	**1.3000e-004**		**5.5400e-003**	**5.5400e-003**		**5.5400e-003**	**5.5400e-003**	**0.0000**	**10.9790**	**10.9790**	**9.3000e-004**	**0.0000**	**10.9985**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	3.5600e-003	0.0333	9.0000e-005	7.7700e-003	6.0000e-005	7.8300e-003	2.0700e-003	5.0000e-005	2.1200e-003	0.0000	6.2742	6.2742	3.0000e-004	0.0000	6.2805
Total	**2.2300e-003**	**3.5600e-003**	**0.0333**	**9.0000e-005**	**7.7700e-003**	**6.0000e-005**	**7.8300e-003**	**2.0700e-003**	**5.0000e-005**	**2.1200e-003**	**0.0000**	**6.2742**	**6.2742**	**3.0000e-004**	**0.0000**	**6.2805**

3.20 P4 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.0798	0.0801	1.3000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	11.1067	11.1067	9.4000e-004	0.0000	11.1264
Total	**1.5636**	**0.0798**	**0.0801**	**1.3000e-004**		**5.6000e-003**	**5.6000e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**11.1067**	**11.1067**	**9.4000e-004**	**0.0000**	**11.1264**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2600e-003	3.6000e-003	0.0337	9.0000e-005	7.8600e-003	6.0000e-005	7.9200e-003	2.0900e-003	5.0000e-005	2.1500e-003	0.0000	6.3471	6.3471	3.1000e-004	0.0000	6.3536
Total	**2.2600e-003**	**3.6000e-003**	**0.0337**	**9.0000e-005**	**7.8600e-003**	**6.0000e-005**	**7.9200e-003**	**2.0900e-003**	**5.0000e-005**	**2.1500e-003**	**0.0000**	**6.3471**	**6.3471**	**3.1000e-004**	**0.0000**	**6.3536**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.0798	0.0801	1.3000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	11.1066	11.1066	9.4000e-004	0.0000	11.1263
Total	**1.5636**	**0.0798**	**0.0801**	**1.3000e-004**		**5.6000e-003**	**5.6000e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**11.1066**	**11.1066**	**9.4000e-004**	**0.0000**	**11.1263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2600e-003	3.6000e-003	0.0337	9.0000e-005	7.8600e-003	6.0000e-005	7.9200e-003	2.0900e-003	5.0000e-005	2.1500e-003	0.0000	6.3471	6.3471	3.1000e-004	0.0000	6.3536
Total	**2.2600e-003**	**3.6000e-003**	**0.0337**	**9.0000e-005**	**7.8600e-003**	**6.0000e-005**	**7.9200e-003**	**2.0900e-003**	**5.0000e-005**	**2.1500e-003**	**0.0000**	**6.3471**	**6.3471**	**3.1000e-004**	**0.0000**	**6.3536**

Millbrae TOD #1 Construction

San Mateo County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
P1 Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1 Demolition Apshalt Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1 Mass Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1 Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1 Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2 Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2 Mass Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2 Mass Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2 Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2-P4 Building Construction - Offroad	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P3 Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P3 Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P3 Mass Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P3 Mass Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P3 Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P4 Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P4 Mass Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P4 Mass Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P4 Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	3	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	14	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	4	No Change	0.00
Other Construction Equipment	Diesel	No Change	0	5	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	9	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	21	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	3.63400E-002	2.48020E-001	2.41790E-001	3.90000E-004	1.78400E-002	1.78400E-002	0.00000E+000	3.34476E+001	3.34476E+001	2.95000E-003	0.00000E+000	3.35095E+001
Cement and Mortar Mixers	5.60000E-004	3.54000E-003	2.96000E-003	1.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	4.39180E-001	4.39180E-001	5.00000E-005	0.00000E+000	4.40140E-001
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	2.34220E-001	2.94274E+000	2.01460E+000	3.00000E-003	1.19120E-001	1.09590E-001	0.00000E+000	2.74549E+002	2.74549E+002	8.52900E-002	0.00000E+000	2.76340E+002
Excavators	1.00450E-001	1.12790E+000	9.29990E-001	1.44000E-003	5.54500E-002	5.10100E-002	0.00000E+000	1.34394E+002	1.34394E+002	4.09200E-002	0.00000E+000	1.35253E+002
Forklifts	1.37430E-001	1.42842E+000	1.03842E+000	1.50000E-003	7.79400E-002	7.17100E-002	0.00000E+000	1.37527E+002	1.37527E+002	4.27200E-002	0.00000E+000	1.38424E+002
Generator Sets	2.34900E-001	1.12835E+000	1.07938E+000	1.80000E-003	6.62500E-002	6.62500E-002	0.00000E+000	1.32541E+002	1.32541E+002	1.90900E-002	0.00000E+000	1.32942E+002

Graders	1.48220E-001	1.50337E+000	7.41700E-001	9.50000E-004	8.44600E-002	7.77000E-002	0.00000E+000	8.87879E+001	8.87879E+001	2.70500E-002	0.00000E+000	8.93560E+001
Pavers	4.84000E-003	4.38800E-002	2.80900E-002	4.00000E-005	3.40000E-003	3.13000E-003	0.00000E+000	3.40656E+000	3.40656E+000	1.03000E-003	0.00000E+000	3.42813E+000
Paving Equipment	7.10000E-003	6.53100E-002	4.32400E-002	6.00000E-005	4.99000E-003	4.59000E-003	0.00000E+000	5.24846E+000	5.24846E+000	1.58000E-003	0.00000E+000	5.28171E+000
Rollers	4.02000E-003	3.72000E-002	2.40600E-002	3.00000E-005	2.74000E-003	2.52000E-003	0.00000E+000	2.95370E+000	2.95370E+000	8.90000E-004	0.00000E+000	2.97241E+000
Rubber Tired Dozers	3.67890E-001	4.09607E+000	3.09384E+000	2.70000E-003	1.90390E-001	1.75150E-001	0.00000E+000	2.53027E+002	2.53027E+002	7.69900E-002	0.00000E+000	2.54644E+002
Tractors/Loaders/Backhoes	4.56110E-001	4.43664E+000	3.69554E+000	4.86000E-003	3.24750E-001	2.98770E-001	0.00000E+000	4.47566E+002	4.47566E+002	1.38150E-001	0.00000E+000	4.50468E+002
Welders	5.31670E-001	1.99428E+000	2.20267E+000	3.02000E-003	1.36360E-001	1.36360E-001	0.00000E+000	2.22059E+002	2.22059E+002	4.33500E-002	0.00000E+000	2.22970E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	3.63400E-002	2.48020E-001	2.41790E-001	3.90000E-004	1.78400E-002	1.78400E-002	0.00000E+000	3.34476E+001	3.34476E+001	2.95000E-003	0.00000E+000	3.35095E+001
Cement and Mortar Mixers	5.60000E-004	3.54000E-003	2.96000E-003	1.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	4.39180E-001	4.39180E-001	5.00000E-005	0.00000E+000	4.40140E-001
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	2.34220E-001	2.94273E+000	2.01460E+000	3.00000E-003	1.19120E-001	1.09590E-001	0.00000E+000	2.74549E+002	2.74549E+002	8.52900E-002	0.00000E+000	2.76340E+002
Excavators	1.00450E-001	1.12790E+000	9.29990E-001	1.44000E-003	5.54500E-002	5.10100E-002	0.00000E+000	1.34394E+002	1.34394E+002	4.09200E-002	0.00000E+000	1.35253E+002
Forklifts	1.37430E-001	1.42841E+000	1.03842E+000	1.50000E-003	7.79400E-002	7.17100E-002	0.00000E+000	1.37527E+002	1.37527E+002	4.27200E-002	0.00000E+000	1.38424E+002
Generator Sets	2.34900E-001	1.12835E+000	1.07938E+000	1.80000E-003	6.62500E-002	6.62500E-002	0.00000E+000	1.32541E+002	1.32541E+002	1.90900E-002	0.00000E+000	1.32942E+002
Graders	1.48220E-001	1.50337E+000	7.41700E-001	9.50000E-004	8.44600E-002	7.77000E-002	0.00000E+000	8.87878E+001	8.87878E+001	2.70500E-002	0.00000E+000	8.93559E+001
Pavers	4.84000E-003	4.38800E-002	2.80900E-002	4.00000E-005	3.40000E-003	3.13000E-003	0.00000E+000	3.40655E+000	3.40655E+000	1.03000E-003	0.00000E+000	3.42813E+000
Paving Equipment	7.10000E-003	6.53100E-002	4.32400E-002	6.00000E-005	4.99000E-003	4.59000E-003	0.00000E+000	5.24845E+000	5.24845E+000	1.58000E-003	0.00000E+000	5.28170E+000
Rollers	4.02000E-003	3.72000E-002	2.40600E-002	3.00000E-005	2.74000E-003	2.52000E-003	0.00000E+000	2.95370E+000	2.95370E+000	8.90000E-004	0.00000E+000	2.97241E+000
Rubber Tired Dozers	3.67890E-001	4.09607E+000	3.09384E+000	2.70000E-003	1.90390E-001	1.75150E-001	0.00000E+000	2.53027E+002	2.53027E+002	7.69900E-002	0.00000E+000	2.54644E+002
Tractors/Loaders/Backhoes	4.56110E-001	4.43664E+000	3.69554E+000	4.86000E-003	3.24750E-001	2.98770E-001	0.00000E+000	4.47566E+002	4.47566E+002	1.38150E-001	0.00000E+000	4.50467E+002
Welders	5.31670E-001	1.99428E+000	2.20267E+000	3.02000E-003	1.36360E-001	1.36360E-001	0.00000E+000	2.22059E+002	2.22059E+002	4.33500E-002	0.00000E+000	2.22970E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Percent Reduction											
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19590E-006	1.19590E-006	0.00000E+000	0.00000E+000	1.19369E-006

Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	3.39819E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16555E-006	1.16555E-006	0.00000E+000	0.00000E+000	1.19418E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19053E-006	1.19053E-006	0.00000E+000	0.00000E+000	1.18297E-006
Forklifts	0.00000E+000	7.00074E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23612E-006	1.23612E-006	0.00000E+000	0.00000E+000	1.22811E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20717E-006	1.20717E-006	0.00000E+000	0.00000E+000	1.20353E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12628E-006	1.12628E-006	0.00000E+000	0.00000E+000	1.23103E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.93551E-006	2.93551E-006	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.90532E-006	1.90532E-006	0.00000E+000	0.00000E+000	1.89333E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18564E-006	1.18564E-006	0.00000E+000	0.00000E+000	1.17812E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20652E-006	1.20652E-006	0.00000E+000	0.00000E+000	1.17656E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17086E-006	1.17086E-006	0.00000E+000	0.00000E+000	1.16608E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
No	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
P1 Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.58
P1 Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00

P1 Demolition Apshalt Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.58
P1 Demolition Apshalt Haul	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P1 Mass Grading	Fugitive Dust	0.28	0.15	0.12	0.06	0.57	0.57
P1 Mass Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P1 Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P1 Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P1 Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P1 Trenching	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P2 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2 Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.00	0.00
P2 Mass Grading	Fugitive Dust	0.26	0.14	0.11	0.06	0.57	0.57
P2 Mass Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P2 Mass Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.56
P2 Mass Grading Soil Haul	Roads	0.04	0.01	0.04	0.01	0.00	0.00
P2 Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2 Trenching	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P2-P4 Building Construction - Offroad	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2-P4 Building Construction - Offroad	Roads	0.12	0.03	0.12	0.03	0.00	0.00
P3 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P3 Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.00	0.00
P3 Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
P3 Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P3 Mass Grading	Fugitive Dust	0.26	0.14	0.11	0.06	0.57	0.57
P3 Mass Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P3 Mass Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.57
P3 Mass Grading Soil Haul	Roads	0.03	0.01	0.03	0.01	0.00	0.00
P3 Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P3 Trenching	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P4 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P4 Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.00	0.00
P4 Mass Grading	Fugitive Dust	0.53	0.29	0.23	0.12	0.57	0.57
P4 Mass Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
P4 Mass Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.57
P4 Mass Grading Soil Haul	Roads	0.04	0.01	0.04	0.01	0.00	0.00
P4 Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P4 Trenching	Roads	0.00	0.00	0.00	0.00	0.00	0.00

TOD #1 CalEEMod Construction: Mitigated

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Millbrae TOD #1 Construction - Mitigated

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	267.00	1000sqft	0.00	267,000.00	0
Enclosed Parking with Elevator	365.57	1000sqft	0.00	365,574.00	0
Other Asphalt Surfaces	0.59	Acre	0.59	0.00	0
Apartments Low Rise	500.00	Dwelling Unit	2.91	408,500.00	0
Strip Mall	32.00	1000sqft	0.00	32,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2014
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description and information provided by the Applicant.

Construction Phase - Based on information provided/verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Equipment assumed in P1 Demolition phase.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information provided by the Applicant.

Off-road Equipment -

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Placeholder only for soil haul emissions.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment -

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Placeholder only for soil haul emissions.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment -

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Placeholder only for soil haul emissions.

Off-road Equipment - Based on information verified by the Applicant.

Trips and VMT - Based on information provided by the Applicant.

Demolition -

Grading -

Architectural Coating - Based on the phasing information provided by the Applicant. Parking structure assumed to not be painted.

Construction Off-road Equipment Mitigation - BAAQMD Fugitive Dust Control BMP and use of equipment of 50 hp or greater with Tier 3 engines and Level 3 diesel particulate filters

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	332,287.00	52,311.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	332,287.00	52,311.00

tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	332,287.00	52,311.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	996,861.00	156,934.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	996,861.00	156,934.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	996,861.00	156,934.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	275,738.00	96,508.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	275,738.00	82,721.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	275,738.00	96,508.00
tblArchitecturalCoating	ConstArea_Residential_Interior	827,213.00	289,524.00
tblArchitecturalCoating	ConstArea_Residential_Interior	827,213.00	248,164.00
tblArchitecturalCoating	ConstArea_Residential_Interior	827,213.00	289,524.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	21.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	89.00
tblConstructionPhase	NumDays	18.00	86.00
tblConstructionPhase	NumDays	18.00	87.00
tblConstructionPhase	NumDays	230.00	804.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	86.00
tblConstructionPhase	NumDays	8.00	63.00
tblConstructionPhase	NumDays	8.00	88.00

tblConstructionPhase	NumDays	8.00	65.00
tblConstructionPhase	NumDays	8.00	44.00
tblConstructionPhase	NumDays	8.00	87.00
tblConstructionPhase	NumDays	8.00	66.00
tblConstructionPhase	NumDays	18.00	23.00
tblConstructionPhase	PhaseEndDate	7/3/2018	8/31/2018
tblConstructionPhase	PhaseEndDate	12/31/2018	4/30/2019
tblConstructionPhase	PhaseEndDate	8/29/2019	12/31/2019
tblConstructionPhase	PhaseEndDate	11/29/2019	11/30/2019
tblConstructionPhase	PhaseEndDate	1/29/2016	1/31/2016
tblConstructionPhase	PhaseEndDate	12/31/2019	1/31/2017
tblConstructionPhase	PhaseEndDate	2/29/2016	1/31/2016
tblConstructionPhase	PhaseEndDate	8/28/2017	4/30/2017
tblConstructionPhase	PhaseEndDate	11/1/2017	1/31/2018
tblConstructionPhase	PhaseEndDate	5/2/2018	12/31/2017
tblConstructionPhase	PhaseEndDate	9/29/2016	10/31/2016
tblConstructionPhase	PhaseEndDate	1/31/2017	9/30/2016
tblConstructionPhase	PhaseEndDate	11/2/2016	8/31/2016
tblConstructionPhase	PhaseEndDate	5/30/2017	6/30/2017
tblConstructionPhase	PhaseEndDate	1/26/2018	2/28/2018
tblConstructionPhase	PhaseEndDate	9/29/2016	10/31/2016
tblConstructionPhase	PhaseStartDate	3/1/2018	5/1/2018
tblConstructionPhase	PhaseStartDate	9/1/2018	1/1/2019
tblConstructionPhase	PhaseStartDate	5/1/2019	9/1/2019
tblConstructionPhase	PhaseStartDate	12/1/2019	1/1/2017
tblConstructionPhase	PhaseStartDate	2/1/2016	1/1/2016
tblConstructionPhase	PhaseStartDate	6/1/2017	2/1/2017

tblConstructionPhase	PhaseStartDate	7/1/2017	10/1/2017
tblConstructionPhase	PhaseStartDate	2/1/2018	10/1/2017
tblConstructionPhase	PhaseStartDate	6/1/2016	7/1/2016
tblConstructionPhase	PhaseStartDate	11/1/2016	7/1/2016
tblConstructionPhase	PhaseStartDate	10/1/2016	8/1/2016
tblConstructionPhase	PhaseStartDate	5/1/2017	6/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2018	2/1/2018
tblConstructionPhase	PhaseStartDate	9/1/2016	10/1/2016
tblGrading	MaterialExported	0.00	24,875.00
tblGrading	MaterialExported	0.00	35,195.00
tblGrading	MaterialExported	0.00	37,564.00
tblLandUse	LandUseSquareFeet	365,570.00	365,574.00
tblLandUse	LandUseSquareFeet	25,700.40	0.00
tblLandUse	LandUseSquareFeet	500,000.00	408,500.00
tblLandUse	LotAcreage	6.13	0.00
tblLandUse	LotAcreage	8.39	0.00
tblLandUse	LotAcreage	31.25	2.91
tblLandUse	LotAcreage	0.73	0.00
tblLandUse	Population	1,430.00	0.00
tblOffRoadEquipment	HorsePower	9.00	10.00
tblOffRoadEquipment	HorsePower	81.00	10.00
tblOffRoadEquipment	HorsePower	81.00	10.00
tblOffRoadEquipment	HorsePower	226.00	399.00
tblOffRoadEquipment	HorsePower	89.00	145.00
tblOffRoadEquipment	HorsePower	84.00	49.00
tblOffRoadEquipment	HorsePower	125.00	100.00
tblOffRoadEquipment	HorsePower	130.00	104.00

tblOffRoadEquipment	HorsePower	80.00	95.00
tblOffRoadEquipment	HorsePower	255.00	357.00
tblOffRoadEquipment	HorsePower	255.00	357.00
tblOffRoadEquipment	HorsePower	255.00	357.00
tblOffRoadEquipment	HorsePower	255.00	357.00
tblOffRoadEquipment	HorsePower	255.00	357.00
tblOffRoadEquipment	HorsePower	255.00	357.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	46.00	45.00
tblOffRoadEquipment	HorsePower	162.00	168.00
tblOffRoadEquipment	HorsePower	162.00	168.00
tblOffRoadEquipment	HorsePower	162.00	168.00
tblOffRoadEquipment	HorsePower	162.00	168.00
tblOffRoadEquipment	HorsePower	171.00	238.00
tblOffRoadEquipment	HorsePower	171.00	238.00
tblOffRoadEquipment	HorsePower	171.00	238.00
tblOffRoadEquipment	HorsePower	171.00	238.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00

tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	HaulingTripLength	20.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	162.00	6.00
tblTripsAndVMT	WorkerTripNumber	23.00	20.00
tblTripsAndVMT	WorkerTripNumber	23.00	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	122.00	20.00
tblTripsAndVMT	WorkerTripNumber	122.00	20.00
tblTripsAndVMT	WorkerTripNumber	122.00	20.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	15.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	20.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	609.00	30.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.5579	5.4823	4.4388	5.5700e-003	0.6277	0.2787	0.9064	0.3096	0.2575	0.5671	0.0000	511.4489	511.4489	0.1106	0.0000	513.7710
2017	0.9792	8.3350	7.2013	9.9400e-003	0.6748	0.4399	1.1147	0.3199	0.4105	0.7305	0.0000	876.2396	876.2396	0.1860	0.0000	880.1458
2018	1.9385	3.8967	3.5976	5.3600e-003	0.3381	0.2216	0.5596	0.1615	0.2095	0.3710	0.0000	450.3857	450.3857	0.1071	0.0000	452.6356
2019	3.5149	3.0000	2.9829	4.7300e-003	0.0526	0.1641	0.2167	0.0141	0.1560	0.1701	0.0000	388.5227	388.5227	0.0855	0.0000	390.3179
Total	**6.9904**	**20.7140**	**18.2206**	**0.0256**	**1.6931**	**1.1043**	**2.7974**	**0.8051**	**1.0336**	**1.8386**	**0.0000**	**2,226.5969**	**2,226.5969**	**0.4892**	**0.0000**	**2,236.8704**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.2090	2.6091	3.5564	5.5700e-003	0.2939	0.0350	0.3289	0.1394	0.0344	0.1738	0.0000	511.4484	511.4484	0.1106	0.0000	513.7705
2017	0.5173	4.7500	6.3458	9.9400e-003	0.3347	0.1053	0.4401	0.1495	0.1045	0.2540	0.0000	876.2389	876.2389	0.1860	0.0000	880.1451
2018	1.7503	2.6600	3.4630	5.3600e-003	0.1692	0.0787	0.2479	0.0758	0.0786	0.1543	0.0000	450.3853	450.3853	0.1071	0.0000	452.6352
2019	3.3818	2.2664	2.9647	4.7300e-003	0.0486	0.0640	0.1125	0.0131	0.0639	0.0770	0.0000	388.5223	388.5223	0.0855	0.0000	390.3175
Total	**5.8583**	**12.2856**	**16.3300**	**0.0256**	**0.8464**	**0.2830**	**1.1294**	**0.3777**	**0.2814**	**0.6591**	**0.0000**	**2,226.5949**	**2,226.5949**	**0.4892**	**0.0000**	**2,236.8683**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**16.19**	**40.69**	**10.38**	**0.00**	**50.01**	**74.37**	**59.63**	**53.08**	**72.78**	**64.15**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	P1 Demolition	Demolition	1/1/2016	1/31/2016	5	21	
2	P1 Demolition Apshalt Haul	Demolition	1/1/2016	1/31/2016	5	21	
3	P1 Mass Grading	Grading	2/1/2016	3/31/2016	5	44	
4	P1 Trenching	Trenching	4/1/2016	5/31/2016	5	43	
5	P2 Mass Grading	Grading	7/1/2016	10/31/2016	5	87	
6	P2 Mass Grading Soil Haul	Grading	7/1/2016	9/30/2016	5	66	
7	P1 Paving	Paving	8/1/2016	8/31/2016	5	23	
8	P2 Trenching	Trenching	10/1/2016	10/31/2016	5	21	
9	P2-P4 Building Construction - Offroad	Building Construction	11/1/2016	11/30/2019	5	804	
10	P3 Demolition	Demolition	1/1/2017	1/31/2017	5	22	
11	P3 Mass Grading	Grading	2/1/2017	5/31/2017	5	86	
12	P3 Mass Grading Soil Haul	Grading	2/1/2017	4/30/2017	5	63	
13	P3 Trenching	Trenching	6/1/2017	6/30/2017	5	22	
14	P4 Mass Grading	Grading	10/1/2017	1/31/2018	5	88	
15	P4 Mass Grading Soil Haul	Grading	10/1/2017	12/31/2017	5	65	
16	P4 Trenching	Trenching	2/1/2018	2/28/2018	5	20	
17	P2 Architectural Coating	Architectural Coating	5/1/2018	8/31/2018	5	89	
18	P3 Architectural Coating	Architectural Coating	1/1/2019	4/30/2019	5	86	
19	P4 Architectural Coating	Architectural Coating	9/1/2019	12/31/2019	5	87	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 248,164; Residential Outdoor: 82,721; Non-Residential Indoor: 156,934; Non-Residential Outdoor: 52,311

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
P1 Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
P1 Demolition	Excavators	3	8.00	162	0.38
P1 Demolition	Rubber Tired Dozers	2	8.00	357	0.40
P1 Demolition	Tractors/Loaders/Backhoes	3	8.00	108	0.37
P1 Demolition Apshalt Haul	Concrete/Industrial Saws	0	8.00	81	0.73
P1 Demolition Apshalt Haul	Excavators	0	8.00	162	0.38
P1 Demolition Apshalt Haul	Rubber Tired Dozers	0	8.00	255	0.40
P1 Mass Grading	Excavators	1	8.00	162	0.38
P1 Mass Grading	Graders	1	8.00	174	0.41
P1 Mass Grading	Rubber Tired Dozers	2	8.00	357	0.40
P1 Mass Grading	Tractors/Loaders/Backhoes	2	7.00	108	0.37
P1 Trenching	Excavators	1	8.00	168	0.38
P1 Trenching	Other Construction Equipment	2	8.00	238	0.42
P2 Mass Grading	Excavators	1	8.00	162	0.38
P2 Mass Grading	Graders	1	8.00	174	0.41
P2 Mass Grading	Rubber Tired Dozers	1	8.00	357	0.40
P2 Mass Grading	Tractors/Loaders/Backhoes	3	7.00	108	0.37
P2 Mass Grading Soil Haul	Excavators	0	8.00	162	0.38
P2 Mass Grading Soil Haul	Graders	0	8.00	174	0.41
P2 Mass Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40

P2 Mass Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
P1 Paving	Cement and Mortar Mixers	1	6.00	10	0.56
P1 Paving	Pavers	1	7.00	100	0.42
P1 Paving	Paving Equipment	2	6.00	104	0.36
P1 Paving	Rollers	1	7.00	95	0.38
P1 Paving	Tractors/Loaders/Backhoes	1	7.00	108	0.37
P2 Trenching	Excavators	1	8.00	168	0.38
P2 Trenching	Other Construction Equipment	1	8.00	238	0.42
P2-P4 Building Construction - Offroad	Cranes	1	6.00	399	0.29
P2-P4 Building Construction - Offroad	Forklifts	2	6.00	145	0.20
P2-P4 Building Construction - Offroad	Generator Sets	1	8.00	49	0.74
P2-P4 Building Construction - Offroad	Tractors/Loaders/Backhoes	3	7.00	97	0.37
P2-P4 Building Construction - Offroad	Welders	3	8.00	45	0.45
P3 Demolition	Concrete/Industrial Saws	1	8.00	10	0.73
P3 Demolition	Excavators	3	8.00	162	0.38
P3 Demolition	Rubber Tired Dozers	2	8.00	357	0.40
P3 Demolition	Tractors/Loaders/Backhoes	3	8.00	108	0.37
P3 Mass Grading	Excavators	1	8.00	162	0.38
P3 Mass Grading	Graders	1	8.00	174	0.41
P3 Mass Grading	Rubber Tired Dozers	1	8.00	357	0.40
P3 Mass Grading	Tractors/Loaders/Backhoes	3	7.00	108	0.37
P3 Mass Grading Soil Haul	Excavators	0	8.00	162	0.38
P3 Mass Grading Soil Haul	Graders	0	8.00	174	0.41
P3 Mass Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
P3 Mass Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
P3 Trenching	Excavators	1	8.00	168	0.38
P3 Trenching	Other Construction Equipment	1	8.00	238	0.42

P4 Mass Grading	Excavators	1	8.00	162	0.38
P4 Mass Grading	Graders	1	8.00	174	0.41
P4 Mass Grading	Rubber Tired Dozers	1	8.00	357	0.40
P4 Mass Grading	Tractors/Loaders/Backhoes	3	7.00	108	0.37
P4 Mass Grading Soil Haul	Excavators	0	8.00	162	0.38
P4 Mass Grading Soil Haul	Graders	0	8.00	174	0.41
P4 Mass Grading Soil Haul	Rubber Tired Dozers	0	8.00	255	0.40
P4 Mass Grading Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
P4 Trenching	Excavators	1	8.00	168	0.38
P4 Trenching	Other Construction Equipment	1	8.00	238	0.42
P2 Architectural Coating	Air Compressors	1	6.00	78	0.48
P3 Architectural Coating	Air Compressors	1	6.00	78	0.48
P4 Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
P1 Demolition	9	20.00	0.00	83.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P1 Demolition Apshalt Haul	0	0.00	0.00	36.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P1 Mass Grading	6	20.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P1 Trenching	3	10.00	8.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Mass Grading	6	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Mass Grading Soil Haul	0	0.00	0.00	4,696.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P1 Paving	6	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Trenching	2	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2-P4 Building Construction - Offroad	10	30.00	6.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Demolition	9	10.00	0.00	82.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT

P3 Mass Grading	6	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Mass Grading Soil Haul	0	0.00	0.00	3,109.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P3 Trenching	2	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Mass Grading	6	4.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Mass Grading Soil Haul	0	0.00	0.00	4,399.00	12.40	7.30	15.00	LD_Mix	HDT_Mix	HHDT
P4 Trenching	2	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P2 Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P3 Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
P4 Architectural Coating	1	20.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 P1 Demolition - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.0200e-003	0.0000	9.0200e-003	1.3700e-003	0.0000	1.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0606	0.6615	0.5009	5.4000e-004		0.0346	0.0346		0.0319	0.0319	0.0000	50.6421	50.6421	0.0153	0.0000	50.9629
Total	**0.0606**	**0.6615**	**0.5009**	**5.4000e-004**	**9.0200e-003**	**0.0346**	**0.0437**	**1.3700e-003**	**0.0319**	**0.0332**	**0.0000**	**50.6421**	**50.6421**	**0.0153**	**0.0000**	**50.9629**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	9.6100e-003	0.0132	2.0000e-005	5.2000e-004	1.2000e-004	6.3000e-004	1.4000e-004	1.1000e-004	2.5000e-004	0.0000	2.0800	2.0800	2.0000e-005	0.0000	2.0803
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	1.1700e-003	0.0111	2.0000e-005	1.9000e-003	2.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.7117	1.7117	9.0000e-005	0.0000	1.7137
Total	**1.6700e-003**	**0.0108**	**0.0243**	**4.0000e-005**	**2.4200e-003**	**1.4000e-004**	**2.5400e-003**	**6.4000e-004**	**1.2000e-004**	**7.7000e-004**	**0.0000**	**3.7917**	**3.7917**	**1.1000e-004**	**0.0000**	**3.7940**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8600e-003	0.0000	3.8600e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.2629	0.3462	5.4000e-004		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	50.6421	50.6421	0.0153	0.0000	50.9629
Total	**0.0131**	**0.2629**	**0.3462**	**5.4000e-004**	**3.8600e-003**	**1.9100e-003**	**5.7700e-003**	**5.8000e-004**	**1.9100e-003**	**2.4900e-003**	**0.0000**	**50.6421**	**50.6421**	**0.0153**	**0.0000**	**50.9629**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	9.6100e-003	0.0132	2.0000e-005	4.8000e-004	1.2000e-004	6.0000e-004	1.3000e-004	1.1000e-004	2.4000e-004	0.0000	2.0800	2.0800	2.0000e-005	0.0000	2.0803
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.5000e-004	1.1700e-003	0.0111	2.0000e-005	1.7500e-003	2.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.7117	1.7117	9.0000e-005	0.0000	1.7137
Total	**1.6700e-003**	**0.0108**	**0.0243**	**4.0000e-005**	**2.2300e-003**	**1.4000e-004**	**2.3700e-003**	**6.0000e-004**	**1.2000e-004**	**7.2000e-004**	**0.0000**	**3.7917**	**3.7917**	**1.1000e-004**	**0.0000**	**3.7940**

3.3 P1 Demolition Apshalt Haul - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8700e-003	0.0000	3.8700e-003	5.9000e-004	0.0000	5.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**3.8700e-003**	**0.0000**	**3.8700e-003**	**5.9000e-004**	**0.0000**	**5.9000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-004	4.1700e-003	5.7200e-003	1.0000e-005	2.3000e-004	5.0000e-005	2.8000e-004	6.0000e-005	5.0000e-005	1.1000e-004	0.0000	0.9022	0.9022	1.0000e-005	0.0000	0.9023
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0000e-004**	**4.1700e-003**	**5.7200e-003**	**1.0000e-005**	**2.3000e-004**	**5.0000e-005**	**2.8000e-004**	**6.0000e-005**	**5.0000e-005**	**1.1000e-004**	**0.0000**	**0.9022**	**0.9022**	**1.0000e-005**	**0.0000**	**0.9023**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.6600e-003	0.0000	1.6600e-003	2.5000e-004	0.0000	2.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.6600e-003**	**0.0000**	**1.6600e-003**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-004	4.1700e-003	5.7200e-003	1.0000e-005	2.1000e-004	5.0000e-005	2.6000e-004	6.0000e-005	5.0000e-005	1.0000e-004	0.0000	0.9022	0.9022	1.0000e-005	0.0000	0.9023
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.0000e-004**	**4.1700e-003**	**5.7200e-003**	**1.0000e-005**	**2.1000e-004**	**5.0000e-005**	**2.6000e-004**	**6.0000e-005**	**5.0000e-005**	**1.0000e-004**	**0.0000**	**0.9022**	**0.9022**	**1.0000e-005**	**0.0000**	**0.9023**

3.4 P1 Mass Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2766	0.0000	0.2766	0.1469	0.0000	0.1469	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1218	1.3198	0.9331	9.3000e-004		0.0681	0.0681		0.0627	0.0627	0.0000	88.1269	88.1269	0.0266	0.0000	88.6852
Total	**0.1218**	**1.3198**	**0.9331**	**9.3000e-004**	**0.2766**	**0.0681**	**0.3448**	**0.1469**	**0.0627**	**0.2096**	**0.0000**	**88.1269**	**88.1269**	**0.0266**	**0.0000**	**88.6852**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1500e-003	8.9200e-003	0.0153	2.0000e-005	5.6000e-004	1.3000e-004	6.9000e-004	1.6000e-004	1.2000e-004	2.8000e-004	0.0000	1.8616	1.8616	1.0000e-005	0.0000	1.8619
Worker	1.5700e-003	2.4500e-003	0.0233	5.0000e-005	3.9800e-003	3.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.5864	3.5864	2.0000e-004	0.0000	3.5905
Total	**2.7200e-003**	**0.0114**	**0.0386**	**7.0000e-005**	**4.5400e-003**	**1.6000e-004**	**4.7000e-003**	**1.2200e-003**	**1.5000e-004**	**1.3700e-003**	**0.0000**	**5.4480**	**5.4480**	**2.1000e-004**	**0.0000**	**5.4524**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1183	0.0000	0.1183	0.0628	0.0000	0.0628	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0227	0.4511	0.5793	9.3000e-004		3.1100e-003	3.1100e-003		3.1100e-003	3.1100e-003	0.0000	88.1268	88.1268	0.0266	0.0000	88.6851
Total	**0.0227**	**0.4511**	**0.5793**	**9.3000e-004**	**0.1183**	**3.1100e-003**	**0.1214**	**0.0628**	**3.1100e-003**	**0.0659**	**0.0000**	**88.1268**	**88.1268**	**0.0266**	**0.0000**	**88.6851**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1500e-003	8.9200e-003	0.0153	2.0000e-005	5.3000e-004	1.3000e-004	6.5000e-004	1.5000e-004	1.2000e-004	2.7000e-004	0.0000	1.8616	1.8616	1.0000e-005	0.0000	1.8619
Worker	1.5700e-003	2.4500e-003	0.0233	5.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.5864	3.5864	2.0000e-004	0.0000	3.5905
Total	**2.7200e-003**	**0.0114**	**0.0386**	**7.0000e-005**	**4.2000e-003**	**1.6000e-004**	**4.3500e-003**	**1.1300e-003**	**1.5000e-004**	**1.2800e-003**	**0.0000**	**5.4480**	**5.4480**	**2.1000e-004**	**0.0000**	**5.4524**

3.5 P1 Trenching - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.6600e-003	0.0988	0.0764	1.2000e-004		4.8600e-003	4.8600e-003		4.4700e-003	4.4700e-003	0.0000	11.1231	11.1231	3.3600e-003	0.0000	11.1936
Total	**8.6600e-003**	**0.0988**	**0.0764**	**1.2000e-004**		**4.8600e-003**	**4.8600e-003**		**4.4700e-003**	**4.4700e-003**	**0.0000**	**11.1231**	**11.1231**	**3.3600e-003**	**0.0000**	**11.1936**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0174	0.0298	4.0000e-005	1.1000e-003	2.5000e-004	1.3500e-003	3.1000e-004	2.3000e-004	5.4000e-004	0.0000	3.6386	3.6386	3.0000e-005	0.0000	3.6392
Worker	7.7000e-004	1.2000e-003	0.0114	2.0000e-005	1.9400e-003	2.0000e-005	1.9600e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.7524	1.7524	1.0000e-004	0.0000	1.7545
Total	**3.0200e-003**	**0.0186**	**0.0412**	**6.0000e-005**	**3.0400e-003**	**2.7000e-004**	**3.3100e-003**	**8.3000e-004**	**2.4000e-004**	**1.0700e-003**	**0.0000**	**5.3910**	**5.3910**	**1.3000e-004**	**0.0000**	**5.3937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.9000e-003	0.0562	0.0896	1.2000e-004		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	11.1231	11.1231	3.3600e-003	0.0000	11.1936
Total	**2.9000e-003**	**0.0562**	**0.0896**	**1.2000e-004**		**4.1000e-004**	**4.1000e-004**		**4.1000e-004**	**4.1000e-004**	**0.0000**	**11.1231**	**11.1231**	**3.3600e-003**	**0.0000**	**11.1936**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2500e-003	0.0174	0.0298	4.0000e-005	1.0300e-003	2.5000e-004	1.2800e-003	3.0000e-004	2.3000e-004	5.3000e-004	0.0000	3.6386	3.6386	3.0000e-005	0.0000	3.6392
Worker	7.7000e-004	1.2000e-003	0.0114	2.0000e-005	1.7900e-003	2.0000e-005	1.8100e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.7524	1.7524	1.0000e-004	0.0000	1.7545
Total	**3.0200e-003**	**0.0186**	**0.0412**	**6.0000e-005**	**2.8200e-003**	**2.7000e-004**	**3.0900e-003**	**7.8000e-004**	**2.4000e-004**	**1.0200e-003**	**0.0000**	**5.3910**	**5.3910**	**1.3000e-004**	**0.0000**	**5.3937**

3.6 P2 Mass Grading - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2850	0.0000	0.2850	0.1465	0.0000	0.1465	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1799	1.9028	1.3088	1.4400e-003		0.1060	0.1060		0.0975	0.0975	0.0000	135.6775	135.6775	0.0409	0.0000	136.5370
Total	**0.1799**	**1.9028**	**1.3088**	**1.4400e-003**	**0.2850**	**0.1060**	**0.3911**	**0.1465**	**0.0975**	**0.2440**	**0.0000**	**135.6775**	**135.6775**	**0.0409**	**0.0000**	**136.5370**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	9.7000e-004	9.2100e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4183	1.4183	8.0000e-005	0.0000	1.4199
Total	**6.2000e-004**	**9.7000e-004**	**9.2100e-003**	**2.0000e-005**	**1.5700e-003**	**1.0000e-005**	**1.5900e-003**	**4.2000e-004**	**1.0000e-005**	**4.3000e-004**	**0.0000**	**1.4183**	**1.4183**	**8.0000e-005**	**0.0000**	**1.4199**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1219	0.0000	0.1219	0.0626	0.0000	0.0626	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0350	0.7112	0.9599	1.4400e-003		5.4800e-003	5.4800e-003		5.4800e-003	5.4800e-003	0.0000	135.6774	135.6774	0.0409	0.0000	136.5368
Total	**0.0350**	**0.7112**	**0.9599**	**1.4400e-003**	**0.1219**	**5.4800e-003**	**0.1273**	**0.0626**	**5.4800e-003**	**0.0681**	**0.0000**	**135.6774**	**135.6774**	**0.0409**	**0.0000**	**136.5368**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	9.7000e-004	9.2100e-003	2.0000e-005	1.4500e-003	1.0000e-005	1.4600e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.4183	1.4183	8.0000e-005	0.0000	1.4199
Total	**6.2000e-004**	**9.7000e-004**	**9.2100e-003**	**2.0000e-005**	**1.4500e-003**	**1.0000e-005**	**1.4600e-003**	**3.9000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.4183**	**1.4183**	**8.0000e-005**	**0.0000**	**1.4199**

3.7 P2 Mass Grading Soil Haul - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	3.2000e-004	0.0000	3.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.1200e-003**	**0.0000**	**2.1200e-003**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0519	0.5437	0.7461	1.2900e-003	0.0294	6.5400e-003	0.0359	8.0600e-003	6.0200e-003	0.0141	0.0000	117.6815	117.6815	8.8000e-004	0.0000	117.7001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.5437**	**0.7461**	**1.2900e-003**	**0.0294**	**6.5400e-003**	**0.0359**	**8.0600e-003**	**6.0200e-003**	**0.0141**	**0.0000**	**117.6815**	**117.6815**	**8.8000e-004**	**0.0000**	**117.7001**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.1000e-004	0.0000	9.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**9.1000e-004**	**0.0000**	**9.1000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0519	0.5437	0.7461	1.2900e-003	0.0274	6.5400e-003	0.0339	7.5700e-003	6.0200e-003	0.0136	0.0000	117.6815	117.6815	8.8000e-004	0.0000	117.7001
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0519**	**0.5437**	**0.7461**	**1.2900e-003**	**0.0274**	**6.5400e-003**	**0.0339**	**7.5700e-003**	**6.0200e-003**	**0.0136**	**0.0000**	**117.6815**	**117.6815**	**8.8000e-004**	**0.0000**	**117.7001**

3.8 P1 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0204	0.1864	0.1254	1.6000e-004		0.0141	0.0141		0.0130	0.0130	0.0000	15.3377	15.3377	4.5400e-003	0.0000	15.4330
Paving	7.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0211**	**0.1864**	**0.1254**	**1.6000e-004**		**0.0141**	**0.0141**		**0.0130**	**0.0130**	**0.0000**	**15.3377**	**15.3377**	**4.5400e-003**	**0.0000**	**15.4330**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	1.2800e-003	0.0122	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.5000e-004	2.0000e-005	5.7000e-004	0.0000	1.8747	1.8747	1.0000e-004	0.0000	1.8769
Total	**8.2000e-004**	**1.2800e-003**	**0.0122**	**2.0000e-005**	**2.0800e-003**	**2.0000e-005**	**2.1000e-003**	**5.5000e-004**	**2.0000e-005**	**5.7000e-004**	**0.0000**	**1.8747**	**1.8747**	**1.0000e-004**	**0.0000**	**1.8769**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4500e-003	0.0922	0.1226	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	15.3377	15.3377	4.5400e-003	0.0000	15.4330
Paving	7.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.2200e-003**	**0.0922**	**0.1226**	**1.6000e-004**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**15.3377**	**15.3377**	**4.5400e-003**	**0.0000**	**15.4330**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.2000e-004	1.2800e-003	0.0122	2.0000e-005	1.9200e-003	2.0000e-005	1.9300e-003	5.1000e-004	2.0000e-005	5.3000e-004	0.0000	1.8747	1.8747	1.0000e-004	0.0000	1.8769
Total	**8.2000e-004**	**1.2800e-003**	**0.0122**	**2.0000e-005**	**1.9200e-003**	**2.0000e-005**	**1.9300e-003**	**5.1000e-004**	**2.0000e-005**	**5.3000e-004**	**0.0000**	**1.8747**	**1.8747**	**1.0000e-004**	**0.0000**	**1.8769**

3.9 P2 Trenching - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2300e-003	0.0483	0.0373	6.0000e-005		2.3700e-003	2.3700e-003		2.1800e-003	2.1800e-003	0.0000	5.4322	5.4322	1.6400e-003	0.0000	5.4666
Total	**4.2300e-003**	**0.0483**	**0.0373**	**6.0000e-005**		**2.3700e-003**	**2.3700e-003**		**2.1800e-003**	**2.1800e-003**	**0.0000**	**5.4322**	**5.4322**	**1.6400e-003**	**0.0000**	**5.4666**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.8000e-004	5.5600e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.6000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.8558	0.8558	5.0000e-005	0.0000	0.8568
Total	**3.8000e-004**	**5.8000e-004**	**5.5600e-003**	**1.0000e-005**	**9.5000e-004**	**1.0000e-005**	**9.6000e-004**	**2.5000e-004**	**1.0000e-005**	**2.6000e-004**	**0.0000**	**0.8558**	**0.8558**	**5.0000e-005**	**0.0000**	**0.8568**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4200e-003	0.0274	0.0437	6.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	5.4322	5.4322	1.6400e-003	0.0000	5.4666
Total	**1.4200e-003**	**0.0274**	**0.0437**	**6.0000e-005**		**2.0000e-004**	**2.0000e-004**		**2.0000e-004**	**2.0000e-004**	**0.0000**	**5.4322**	**5.4322**	**1.6400e-003**	**0.0000**	**5.4666**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	5.8000e-004	5.5600e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.8558	0.8558	5.0000e-005	0.0000	0.8568
Total	**3.8000e-004**	**5.8000e-004**	**5.5600e-003**	**1.0000e-005**	**8.8000e-004**	**1.0000e-005**	**8.8000e-004**	**2.3000e-004**	**1.0000e-005**	**2.4000e-004**	**0.0000**	**0.8558**	**0.8558**	**5.0000e-005**	**0.0000**	**0.8568**

3.10 P2-P4 Building Construction - Offroad - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0960	0.6562	0.5163	6.9000e-004		0.0412	0.0412		0.0390	0.0390	0.0000	59.5741	59.5741	0.0164	0.0000	59.9181
Total	**0.0960**	**0.6562**	**0.5163**	**6.9000e-004**		**0.0412**	**0.0412**		**0.0390**	**0.0390**	**0.0000**	**59.5741**	**59.5741**	**0.0164**	**0.0000**	**59.9181**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7300e-003	0.0134	0.0229	3.0000e-005	8.4000e-004	1.9000e-004	1.0300e-003	2.4000e-004	1.8000e-004	4.2000e-004	0.0000	2.7924	2.7924	2.0000e-005	0.0000	2.7929
Worker	2.3600e-003	3.6700e-003	0.0349	7.0000e-005	5.9600e-003	5.0000e-005	6.0100e-003	1.5900e-003	4.0000e-005	1.6300e-003	0.0000	5.3796	5.3796	2.9000e-004	0.0000	5.3858
Total	**4.0900e-003**	**0.0171**	**0.0578**	**1.0000e-004**	**6.8000e-003**	**2.4000e-004**	**7.0400e-003**	**1.8300e-003**	**2.2000e-004**	**2.0500e-003**	**0.0000**	**8.1720**	**8.1720**	**3.1000e-004**	**0.0000**	**8.1786**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0629	0.3997	0.4745	6.9000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	59.5740	59.5740	0.0164	0.0000	59.9181
Total	**0.0629**	**0.3997**	**0.4745**	**6.9000e-004**		**0.0154**	**0.0154**		**0.0154**	**0.0154**	**0.0000**	**59.5740**	**59.5740**	**0.0164**	**0.0000**	**59.9181**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7300e-003	0.0134	0.0229	3.0000e-005	7.9000e-004	1.9000e-004	9.8000e-004	2.3000e-004	1.8000e-004	4.0000e-004	0.0000	2.7924	2.7924	2.0000e-005	0.0000	2.7929
Worker	2.3600e-003	3.6700e-003	0.0349	7.0000e-005	5.5000e-003	5.0000e-005	5.5500e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3796	5.3796	2.9000e-004	0.0000	5.3858
Total	**4.0900e-003**	**0.0171**	**0.0578**	**1.0000e-004**	**6.2900e-003**	**2.4000e-004**	**6.5300e-003**	**1.7000e-003**	**2.2000e-004**	**1.9200e-003**	**0.0000**	**8.1720**	**8.1720**	**3.1000e-004**	**0.0000**	**8.1786**

3.10 P2-P4 Building Construction - Offroad - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5160	3.6546	2.9536	4.0700e-003		0.2221	0.2221		0.2102	0.2102	0.0000	348.2606	348.2606	0.0940	0.0000	350.2341
Total	**0.5160**	**3.6546**	**2.9536**	**4.0700e-003**		**0.2221**	**0.2221**		**0.2102**	**0.2102**	**0.0000**	**348.2606**	**348.2606**	**0.0940**	**0.0000**	**350.2341**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5600e-003	0.0711	0.1292	1.8000e-004	4.9800e-003	9.8000e-004	5.9600e-003	1.4300e-003	9.0000e-004	2.3300e-003	0.0000	16.2482	16.2482	1.2000e-004	0.0000	16.2509
Worker	0.0124	0.0195	0.1841	4.1000e-004	0.0353	2.7000e-004	0.0355	9.3800e-003	2.5000e-004	9.6300e-003	0.0000	30.6106	30.6106	1.5900e-003	0.0000	30.6440
Total	**0.0219**	**0.0906**	**0.3133**	**5.9000e-004**	**0.0402**	**1.2500e-003**	**0.0415**	**0.0108**	**1.1500e-003**	**0.0120**	**0.0000**	**46.8588**	**46.8588**	**1.7100e-003**	**0.0000**	**46.8949**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3374	2.3250	2.7722	4.0700e-003		0.0830	0.0830		0.0830	0.0830	0.0000	348.2602	348.2602	0.0940	0.0000	350.2337
Total	**0.3374**	**2.3250**	**2.7722**	**4.0700e-003**		**0.0830**	**0.0830**		**0.0830**	**0.0830**	**0.0000**	**348.2602**	**348.2602**	**0.0940**	**0.0000**	**350.2337**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.5600e-003	0.0711	0.1292	1.8000e-004	4.6600e-003	9.8000e-004	5.6400e-003	1.3500e-003	9.0000e-004	2.2500e-003	0.0000	16.2482	16.2482	1.2000e-004	0.0000	16.2509
Worker	0.0124	0.0195	0.1841	4.1000e-004	0.0325	2.7000e-004	0.0328	8.7100e-003	2.5000e-004	8.9600e-003	0.0000	30.6106	30.6106	1.5900e-003	0.0000	30.6440
Total	**0.0219**	**0.0906**	**0.3133**	**5.9000e-004**	**0.0372**	**1.2500e-003**	**0.0384**	**0.0101**	**1.1500e-003**	**0.0112**	**0.0000**	**46.8588**	**46.8588**	**1.7100e-003**	**0.0000**	**46.8949**

3.10 P2-P4 Building Construction - Offroad - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4517	3.2786	2.8321	4.0900e-003		0.1899	0.1899		0.1799	0.1799	0.0000	345.8119	345.8119	0.0917	0.0000	347.7377
Total	**0.4517**	**3.2786**	**2.8321**	**4.0900e-003**		**0.1899**	**0.1899**		**0.1799**	**0.1799**	**0.0000**	**345.8119**	**345.8119**	**0.0917**	**0.0000**	**347.7377**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.9400e-003	0.0648	0.1234	1.8000e-004	5.0000e-003	9.1000e-004	5.9100e-003	1.4300e-003	8.4000e-004	2.2700e-003	0.0000	16.0377	16.0377	1.2000e-004	0.0000	16.0403
Worker	0.0111	0.0177	0.1658	4.1000e-004	0.0354	2.6000e-004	0.0356	9.4100e-003	2.4000e-004	9.6600e-003	0.0000	29.6125	29.6125	1.4700e-003	0.0000	29.6435
Total	**0.0200**	**0.0825**	**0.2891**	**5.9000e-004**	**0.0404**	**1.1700e-003**	**0.0416**	**0.0108**	**1.0800e-003**	**0.0119**	**0.0000**	**45.6502**	**45.6502**	**1.5900e-003**	**0.0000**	**45.6837**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3059	2.2984	2.7531	4.0900e-003		0.0752	0.0752		0.0752	0.0752	0.0000	345.8115	345.8115	0.0917	0.0000	347.7372
Total	**0.3059**	**2.2984**	**2.7531**	**4.0900e-003**		**0.0752**	**0.0752**		**0.0752**	**0.0752**	**0.0000**	**345.8115**	**345.8115**	**0.0917**	**0.0000**	**347.7372**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.9400e-003	0.0648	0.1234	1.8000e-004	4.6800e-003	9.1000e-004	5.5900e-003	1.3500e-003	8.4000e-004	2.1900e-003	0.0000	16.0377	16.0377	1.2000e-004	0.0000	16.0403
Worker	0.0111	0.0177	0.1658	4.1000e-004	0.0326	2.6000e-004	0.0329	8.7400e-003	2.4000e-004	8.9800e-003	0.0000	29.6125	29.6125	1.4700e-003	0.0000	29.6435
Total	**0.0200**	**0.0825**	**0.2891**	**5.9000e-004**	**0.0373**	**1.1700e-003**	**0.0385**	**0.0101**	**1.0800e-003**	**0.0112**	**0.0000**	**45.6502**	**45.6502**	**1.5900e-003**	**0.0000**	**45.6837**

3.10 P2-P4 Building Construction - Offroad - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3665	2.7651	2.5121	3.7400e-003		0.1518	0.1518		0.1438	0.1438	0.0000	313.2333	313.2333	0.0816	0.0000	314.9478
Total	**0.3665**	**2.7651**	**2.5121**	**3.7400e-003**		**0.1518**	**0.1518**		**0.1438**	**0.1438**	**0.0000**	**313.2333**	**313.2333**	**0.0816**	**0.0000**	**314.9478**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4900e-003	0.0542	0.1059	1.7000e-004	4.5800e-003	7.7000e-004	5.3500e-003	1.3100e-003	7.1000e-004	2.0200e-003	0.0000	14.4278	14.4278	1.1000e-004	0.0000	14.4301
Worker	9.3000e-003	0.0148	0.1387	3.8000e-004	0.0324	2.4000e-004	0.0326	8.6200e-003	2.2000e-004	8.8400e-003	0.0000	26.1546	26.1546	1.2600e-003	0.0000	26.1811
Total	**0.0168**	**0.0690**	**0.2446**	**5.5000e-004**	**0.0370**	**1.0100e-003**	**0.0380**	**9.9300e-003**	**9.3000e-004**	**0.0109**	**0.0000**	**40.5824**	**40.5824**	**1.3700e-003**	**0.0000**	**40.6112**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2514	2.0729	2.4947	3.7400e-003		0.0616	0.0616		0.0616	0.0616	0.0000	313.2329	313.2329	0.0816	0.0000	314.9474
Total	**0.2514**	**2.0729**	**2.4947**	**3.7400e-003**		**0.0616**	**0.0616**		**0.0616**	**0.0616**	**0.0000**	**313.2329**	**313.2329**	**0.0816**	**0.0000**	**314.9474**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.4900e-003	0.0542	0.1059	1.7000e-004	4.2800e-003	7.7000e-004	5.0600e-003	1.2400e-003	7.1000e-004	1.9500e-003	0.0000	14.4278	14.4278	1.1000e-004	0.0000	14.4301
Worker	9.3000e-003	0.0148	0.1387	3.8000e-004	0.0299	2.4000e-004	0.0301	8.0000e-003	2.2000e-004	8.2200e-003	0.0000	26.1546	26.1546	1.2600e-003	0.0000	26.1811
Total	**0.0168**	**0.0690**	**0.2446**	**5.5000e-004**	**0.0342**	**1.0100e-003**	**0.0352**	**9.2400e-003**	**9.3000e-004**	**0.0102**	**0.0000**	**40.5824**	**40.5824**	**1.3700e-003**	**0.0000**	**40.6112**

3.11 P3 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8600e-003	0.0000	8.8600e-003	1.3400e-003	0.0000	1.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0603	0.6507	0.5070	5.6000e-004		0.0338	0.0338		0.0311	0.0311	0.0000	52.2390	52.2390	0.0160	0.0000	52.5752
Total	**0.0603**	**0.6507**	**0.5070**	**5.6000e-004**	**8.8600e-003**	**0.0338**	**0.0427**	**1.3400e-003**	**0.0311**	**0.0324**	**0.0000**	**52.2390**	**52.2390**	**0.0160**	**0.0000**	**52.5752**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.7000e-004	8.5700e-003	0.0126	2.0000e-005	5.1000e-004	1.0000e-004	6.1000e-004	1.4000e-004	9.0000e-005	2.3000e-004	0.0000	2.0254	2.0254	1.0000e-005	0.0000	2.0257
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	5.5000e-004	5.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8634	0.8634	4.0000e-005	0.0000	0.8643
Total	**1.2200e-003**	**9.1200e-003**	**0.0177**	**3.0000e-005**	**1.5000e-003**	**1.1000e-004**	**1.6100e-003**	**4.0000e-004**	**1.0000e-004**	**5.0000e-004**	**0.0000**	**2.8887**	**2.8887**	**5.0000e-005**	**0.0000**	**2.8900**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7900e-003	0.0000	3.7900e-003	5.7000e-004	0.0000	5.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0137	0.2754	0.3627	5.6000e-004		2.0000e-003	2.0000e-003		2.0000e-003	2.0000e-003	0.0000	52.2390	52.2390	0.0160	0.0000	52.5751
Total	**0.0137**	**0.2754**	**0.3627**	**5.6000e-004**	**3.7900e-003**	**2.0000e-003**	**5.7900e-003**	**5.7000e-004**	**2.0000e-003**	**2.5700e-003**	**0.0000**	**52.2390**	**52.2390**	**0.0160**	**0.0000**	**52.5751**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.7000e-004	8.5700e-003	0.0126	2.0000e-005	4.8000e-004	1.0000e-004	5.8000e-004	1.3000e-004	9.0000e-005	2.3000e-004	0.0000	2.0254	2.0254	1.0000e-005	0.0000	2.0257
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	5.5000e-004	5.1900e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.2000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8634	0.8634	4.0000e-005	0.0000	0.8643
Total	**1.2200e-003**	**9.1200e-003**	**0.0177**	**3.0000e-005**	**1.4000e-003**	**1.1000e-004**	**1.5000e-003**	**3.8000e-004**	**1.0000e-004**	**4.8000e-004**	**0.0000**	**2.8887**	**2.8887**	**5.0000e-005**	**0.0000**	**2.8900**

3.12 P3 Mass Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2818	0.0000	0.2818	0.1448	0.0000	0.1448	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1680	1.7640	1.2544	1.4200e-003		0.0975	0.0975		0.0897	0.0897	0.0000	131.9697	131.9697	0.0404	0.0000	132.8188
Total	**0.1680**	**1.7640**	**1.2544**	**1.4200e-003**	**0.2818**	**0.0975**	**0.3792**	**0.1448**	**0.0897**	**0.2345**	**0.0000**	**131.9697**	**131.9697**	**0.0404**	**0.0000**	**132.8188**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	8.6000e-004	8.1200e-003	2.0000e-005	1.5500e-003	1.0000e-005	1.5700e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3500	1.3500	7.0000e-005	0.0000	1.3515
Total	**5.5000e-004**	**8.6000e-004**	**8.1200e-003**	**2.0000e-005**	**1.5500e-003**	**1.0000e-005**	**1.5700e-003**	**4.1000e-004**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**1.3500**	**1.3500**	**7.0000e-005**	**0.0000**	**1.3515**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1205	0.0000	0.1205	0.0619	0.0000	0.0619	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0346	0.7031	0.9488	1.4200e-003		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	131.9695	131.9695	0.0404	0.0000	132.8187
Total	**0.0346**	**0.7031**	**0.9488**	**1.4200e-003**	**0.1205**	**5.4100e-003**	**0.1259**	**0.0619**	**5.4100e-003**	**0.0673**	**0.0000**	**131.9695**	**131.9695**	**0.0404**	**0.0000**	**132.8187**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	8.6000e-004	8.1200e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4500e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3500	1.3500	7.0000e-005	0.0000	1.3515
Total	**5.5000e-004**	**8.6000e-004**	**8.1200e-003**	**2.0000e-005**	**1.4300e-003**	**1.0000e-005**	**1.4500e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.3500**	**1.3500**	**7.0000e-005**	**0.0000**	**1.3515**

3.13 P3 Mass Grading Soil Haul - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.4100e-003	0.0000	1.4100e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.4100e-003**	**0.0000**	**1.4100e-003**	**2.1000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0329	0.3250	0.4757	8.6000e-004	0.0195	3.8400e-003	0.0233	5.3400e-003	3.5300e-003	8.8700e-003	0.0000	76.7905	76.7905	5.7000e-004	0.0000	76.8024
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0329**	**0.3250**	**0.4757**	**8.6000e-004**	**0.0195**	**3.8400e-003**	**0.0233**	**5.3400e-003**	**3.5300e-003**	**8.8700e-003**	**0.0000**	**76.7905**	**76.7905**	**5.7000e-004**	**0.0000**	**76.8024**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.0000e-004	0.0000	6.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**6.0000e-004**	**0.0000**	**6.0000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0329	0.3250	0.4757	8.6000e-004	0.0181	3.8400e-003	0.0220	5.0200e-003	3.5300e-003	8.5500e-003	0.0000	76.7905	76.7905	5.7000e-004	0.0000	76.8024
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0329**	**0.3250**	**0.4757**	**8.6000e-004**	**0.0181**	**3.8400e-003**	**0.0220**	**5.0200e-003**	**3.5300e-003**	**8.5500e-003**	**0.0000**	**76.7905**	**76.7905**	**5.7000e-004**	**0.0000**	**76.8024**

3.14 P3 Trenching - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1300e-003	0.0458	0.0390	6.0000e-005		2.2500e-003	2.2500e-003		2.0700e-003	2.0700e-003	0.0000	5.6013	5.6013	1.7200e-003	0.0000	5.6374
Total	**4.1300e-003**	**0.0458**	**0.0390**	**6.0000e-005**		**2.2500e-003**	**2.2500e-003**		**2.0700e-003**	**2.0700e-003**	**0.0000**	**5.6013**	**5.6013**	**1.7200e-003**	**0.0000**	**5.6374**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	5.5000e-004	5.1900e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8634	0.8634	4.0000e-005	0.0000	0.8643
Total	**3.5000e-004**	**5.5000e-004**	**5.1900e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**1.0000e-003**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8634**	**0.8634**	**4.0000e-005**	**0.0000**	**0.8643**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4900e-003	0.0287	0.0458	6.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	5.6013	5.6013	1.7200e-003	0.0000	5.6374
Total	**1.4900e-003**	**0.0287**	**0.0458**	**6.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**5.6013**	**5.6013**	**1.7200e-003**	**0.0000**	**5.6374**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	5.5000e-004	5.1900e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.2000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.8634	0.8634	4.0000e-005	0.0000	0.8643
Total	**3.5000e-004**	**5.5000e-004**	**5.1900e-003**	**1.0000e-005**	**9.2000e-004**	**1.0000e-005**	**9.2000e-004**	**2.5000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.8634**	**0.8634**	**4.0000e-005**	**0.0000**	**0.8643**

3.15 P4 Mass Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2883	0.0000	0.2883	0.1482	0.0000	0.1482	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1270	1.3333	0.9481	1.0700e-003		0.0737	0.0737		0.0678	0.0678	0.0000	99.7445	99.7445	0.0306	0.0000	100.3863
Total	**0.1270**	**1.3333**	**0.9481**	**1.0700e-003**	**0.2883**	**0.0737**	**0.3620**	**0.1482**	**0.0678**	**0.2159**	**0.0000**	**99.7445**	**99.7445**	**0.0306**	**0.0000**	**100.3863**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	6.5000e-004	6.1400e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0204	1.0204	5.0000e-005	0.0000	1.0215
Total	**4.1000e-004**	**6.5000e-004**	**6.1400e-003**	**1.0000e-005**	**1.1700e-003**	**1.0000e-005**	**1.1800e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**1.0204**	**1.0204**	**5.0000e-005**	**0.0000**	**1.0215**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1233	0.0000	0.1233	0.0633	0.0000	0.0633	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.5314	0.7171	1.0700e-003		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	99.7444	99.7444	0.0306	0.0000	100.3862
Total	**0.0262**	**0.5314**	**0.7171**	**1.0700e-003**	**0.1233**	**4.0900e-003**	**0.1273**	**0.0633**	**4.0900e-003**	**0.0674**	**0.0000**	**99.7444**	**99.7444**	**0.0306**	**0.0000**	**100.3862**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	6.5000e-004	6.1400e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	1.0204	1.0204	5.0000e-005	0.0000	1.0215
Total	**4.1000e-004**	**6.5000e-004**	**6.1400e-003**	**1.0000e-005**	**1.0800e-003**	**1.0000e-005**	**1.0900e-003**	**2.9000e-004**	**1.0000e-005**	**3.0000e-004**	**0.0000**	**1.0204**	**1.0204**	**5.0000e-005**	**0.0000**	**1.0215**

3.15 P4 Mass Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2883	0.0000	0.2883	0.1482	0.0000	0.1482	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0393	0.4088	0.3151	3.8000e-004		0.0221	0.0221		0.0203	0.0203	0.0000	34.7136	34.7136	0.0108	0.0000	34.9405
Total	**0.0393**	**0.4088**	**0.3151**	**3.8000e-004**	**0.2883**	**0.0221**	**0.3104**	**0.1482**	**0.0203**	**0.1685**	**0.0000**	**34.7136**	**34.7136**	**0.0108**	**0.0000**	**34.9405**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	2.1000e-004	1.9500e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	2.0000e-005	0.0000	0.3483
Total	**1.3000e-004**	**2.1000e-004**	**1.9500e-003**	**0.0000**	**4.2000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3479**	**0.3479**	**2.0000e-005**	**0.0000**	**0.3483**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1233	0.0000	0.1233	0.0633	0.0000	0.0633	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.2600e-003	0.1880	0.2538	3.8000e-004		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	34.7135	34.7135	0.0108	0.0000	34.9405
Total	**9.2600e-003**	**0.1880**	**0.2538**	**3.8000e-004**	**0.1233**	**1.4500e-003**	**0.1247**	**0.0633**	**1.4500e-003**	**0.0648**	**0.0000**	**34.7135**	**34.7135**	**0.0108**	**0.0000**	**34.9405**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	2.1000e-004	1.9500e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3479	0.3479	2.0000e-005	0.0000	0.3483
Total	**1.3000e-004**	**2.1000e-004**	**1.9500e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3479**	**0.3479**	**2.0000e-005**	**0.0000**	**0.3483**

3.16 P4 Mass Grading Soil Haul - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.9900e-003	0.0000	1.9900e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.9900e-003**	**0.0000**	**1.9900e-003**	**3.0000e-004**	**0.0000**	**3.0000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0465	0.4598	0.6730	1.2100e-003	0.0275	5.4300e-003	0.0330	7.5600e-003	4.9900e-003	0.0126	0.0000	108.6527	108.6527	8.0000e-004	0.0000	108.6696
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0465**	**0.4598**	**0.6730**	**1.2100e-003**	**0.0275**	**5.4300e-003**	**0.0330**	**7.5600e-003**	**4.9900e-003**	**0.0126**	**0.0000**	**108.6527**	**108.6527**	**8.0000e-004**	**0.0000**	**108.6696**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.5000e-004	0.0000	8.5000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**8.5000e-004**	**0.0000**	**8.5000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0465	0.4598	0.6730	1.2100e-003	0.0257	5.4300e-003	0.0311	7.1000e-003	4.9900e-003	0.0121	0.0000	108.6527	108.6527	8.0000e-004	0.0000	108.6696
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0465**	**0.4598**	**0.6730**	**1.2100e-003**	**0.0257**	**5.4300e-003**	**0.0311**	**7.1000e-003**	**4.9900e-003**	**0.0121**	**0.0000**	**108.6527**	**108.6527**	**8.0000e-004**	**0.0000**	**108.6696**

3.17 P4 Trenching - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0700e-003	0.0329	0.0348	5.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	5.0119	5.0119	1.5600e-003	0.0000	5.0447
Total	**3.0700e-003**	**0.0329**	**0.0348**	**5.0000e-005**		**1.6000e-003**	**1.6000e-003**		**1.4700e-003**	**1.4700e-003**	**0.0000**	**5.0119**	**5.0119**	**1.5600e-003**	**0.0000**	**5.0447**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	4.5000e-004	4.2300e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7564	0.7564	4.0000e-005	0.0000	0.7572
Total	**2.8000e-004**	**4.5000e-004**	**4.2300e-003**	**1.0000e-005**	**9.0000e-004**	**1.0000e-005**	**9.1000e-004**	**2.4000e-004**	**1.0000e-005**	**2.5000e-004**	**0.0000**	**0.7564**	**0.7564**	**4.0000e-005**	**0.0000**	**0.7572**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.3500e-003	0.0261	0.0417	5.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	5.0119	5.0119	1.5600e-003	0.0000	5.0447
Total	**1.3500e-003**	**0.0261**	**0.0417**	**5.0000e-005**		**1.9000e-004**	**1.9000e-004**		**1.9000e-004**	**1.9000e-004**	**0.0000**	**5.0119**	**5.0119**	**1.5600e-003**	**0.0000**	**5.0447**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	4.5000e-004	4.2300e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7564	0.7564	4.0000e-005	0.0000	0.7572
Total	**2.8000e-004**	**4.5000e-004**	**4.2300e-003**	**1.0000e-005**	**8.3000e-004**	**1.0000e-005**	**8.4000e-004**	**2.2000e-004**	**1.0000e-005**	**2.3000e-004**	**0.0000**	**0.7564**	**0.7564**	**4.0000e-005**	**0.0000**	**0.7572**

3.18 P2 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.0893	0.0825	1.3000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	11.3620	11.3620	1.0800e-003	0.0000	11.3847
Total	**1.4215**	**0.0893**	**0.0825**	**1.3000e-004**		**6.7000e-003**	**6.7000e-003**		**6.7000e-003**	**6.7000e-003**	**0.0000**	**11.3620**	**11.3620**	**1.0800e-003**	**0.0000**	**11.3847**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5200e-003	4.0200e-003	0.0377	9.0000e-005	8.0400e-003	6.0000e-005	8.1000e-003	2.1400e-003	6.0000e-005	2.2000e-003	0.0000	6.7318	6.7318	3.4000e-004	0.0000	6.7389
Total	**2.5200e-003**	**4.0200e-003**	**0.0377**	**9.0000e-005**	**8.0400e-003**	**6.0000e-005**	**8.1000e-003**	**2.1400e-003**	**6.0000e-005**	**2.2000e-003**	**0.0000**	**6.7318**	**6.7318**	**3.4000e-004**	**0.0000**	**6.7389**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6400e-003	0.0604	0.0815	1.3000e-004		6.3000e-004	6.3000e-004		6.3000e-004	6.3000e-004	0.0000	11.3620	11.3620	1.0800e-003	0.0000	11.3847
Total	**1.4109**	**0.0604**	**0.0815**	**1.3000e-004**		**6.3000e-004**	**6.3000e-004**		**6.3000e-004**	**6.3000e-004**	**0.0000**	**11.3620**	**11.3620**	**1.0800e-003**	**0.0000**	**11.3847**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5200e-003	4.0200e-003	0.0377	9.0000e-005	7.4200e-003	6.0000e-005	7.4800e-003	1.9900e-003	6.0000e-005	2.0400e-003	0.0000	6.7318	6.7318	3.4000e-004	0.0000	6.7389
Total	**2.5200e-003**	**4.0200e-003**	**0.0377**	**9.0000e-005**	**7.4200e-003**	**6.0000e-005**	**7.4800e-003**	**1.9900e-003**	**6.0000e-005**	**2.0400e-003**	**0.0000**	**6.7318**	**6.7318**	**3.4000e-004**	**0.0000**	**6.7389**

3.19 P3 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.0789	0.0792	1.3000e-004		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	10.9790	10.9790	9.3000e-004	0.0000	10.9985
Total	**1.5635**	**0.0789**	**0.0792**	**1.3000e-004**		**5.5400e-003**	**5.5400e-003**		**5.5400e-003**	**5.5400e-003**	**0.0000**	**10.9790**	**10.9790**	**9.3000e-004**	**0.0000**	**10.9985**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	3.5600e-003	0.0333	9.0000e-005	7.7700e-003	6.0000e-005	7.8300e-003	2.0700e-003	5.0000e-005	2.1200e-003	0.0000	6.2742	6.2742	3.0000e-004	0.0000	6.2805
Total	**2.2300e-003**	**3.5600e-003**	**0.0333**	**9.0000e-005**	**7.7700e-003**	**6.0000e-005**	**7.8300e-003**	**2.0700e-003**	**5.0000e-005**	**2.1200e-003**	**0.0000**	**6.2742**	**6.2742**	**3.0000e-004**	**0.0000**	**6.2805**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5600e-003	0.0584	0.0788	1.3000e-004		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	10.9790	10.9790	9.3000e-004	0.0000	10.9985
Total	**1.5546**	**0.0584**	**0.0788**	**1.3000e-004**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**10.9790**	**10.9790**	**9.3000e-004**	**0.0000**	**10.9985**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2300e-003	3.5600e-003	0.0333	9.0000e-005	7.1700e-003	6.0000e-005	7.2200e-003	1.9200e-003	5.0000e-005	1.9700e-003	0.0000	6.2742	6.2742	3.0000e-004	0.0000	6.2805
Total	**2.2300e-003**	**3.5600e-003**	**0.0333**	**9.0000e-005**	**7.1700e-003**	**6.0000e-005**	**7.2200e-003**	**1.9200e-003**	**5.0000e-005**	**1.9700e-003**	**0.0000**	**6.2742**	**6.2742**	**3.0000e-004**	**0.0000**	**6.2805**

3.20 P4 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0116	0.0798	0.0801	1.3000e-004		5.6000e-003	5.6000e-003		5.6000e-003	5.6000e-003	0.0000	11.1067	11.1067	9.4000e-004	0.0000	11.1264
Total	**1.5636**	**0.0798**	**0.0801**	**1.3000e-004**		**5.6000e-003**	**5.6000e-003**		**5.6000e-003**	**5.6000e-003**	**0.0000**	**11.1067**	**11.1067**	**9.4000e-004**	**0.0000**	**11.1264**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2600e-003	3.6000e-003	0.0337	9.0000e-005	7.8600e-003	6.0000e-005	7.9200e-003	2.0900e-003	5.0000e-005	2.1500e-003	0.0000	6.3471	6.3471	3.1000e-004	0.0000	6.3536
Total	**2.2600e-003**	**3.6000e-003**	**0.0337**	**9.0000e-005**	**7.8600e-003**	**6.0000e-005**	**7.9200e-003**	**2.0900e-003**	**5.0000e-005**	**2.1500e-003**	**0.0000**	**6.3471**	**6.3471**	**3.1000e-004**	**0.0000**	**6.3536**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5520					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5900e-003	0.0590	0.0797	1.3000e-004		6.2000e-004	6.2000e-004		6.2000e-004	6.2000e-004	0.0000	11.1066	11.1066	9.4000e-004	0.0000	11.1263
Total	**1.5546**	**0.0590**	**0.0797**	**1.3000e-004**		**6.2000e-004**	**6.2000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**11.1066**	**11.1066**	**9.4000e-004**	**0.0000**	**11.1263**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2600e-003	3.6000e-003	0.0337	9.0000e-005	7.2500e-003	6.0000e-005	7.3100e-003	1.9400e-003	5.0000e-005	2.0000e-003	0.0000	6.3471	6.3471	3.1000e-004	0.0000	6.3536
Total	**2.2600e-003**	**3.6000e-003**	**0.0337**	**9.0000e-005**	**7.2500e-003**	**6.0000e-005**	**7.3100e-003**	**1.9400e-003**	**5.0000e-005**	**2.0000e-003**	**0.0000**	**6.3471**	**6.3471**	**3.1000e-004**	**0.0000**	**6.3536**

Millbrae TOD #1 Construction - Mitigated

San Mateo County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
P1 Demolition	0.76	0.59	0.29	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00
P1 Demolition Apshalt Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P1 Mass Grading	0.80	0.65	0.36	0.00	0.95	0.95	0.00	0.00	0.00	0.00	0.00	0.00
P1 Paving	0.72	0.50	0.02	0.00	0.92	0.92	0.00	0.00	0.00	0.00	0.00	0.00
P1 Trenching	0.49	0.36	-0.11	0.00	0.87	0.86	0.00	0.00	0.00	0.00	0.00	0.00
P2 Architectural Coating	0.01	0.31	0.01	0.00	0.90	0.90	0.00	0.00	0.00	0.00	0.00	0.00
P2 Mass Grading	0.80	0.63	0.26	0.00	0.95	0.94	0.00	0.00	0.00	0.00	0.00	0.00
P2 Mass Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P2 Trenching	0.61	0.43	-0.15	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
P2-P4 Building Construction - Offroad	0.32	0.31	0.03	0.00	0.61	0.59	0.00	0.00	0.00	0.00	0.00	0.00
P3 Architectural Coating	0.01	0.25	0.00	0.00	0.88	0.88	0.00	0.00	0.00	0.00	0.00	0.00
P3 Demolition	0.76	0.57	0.28	0.00	0.94	0.93	0.00	0.00	0.00	0.00	0.00	0.00
P3 Mass Grading	0.79	0.60	0.24	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00
P3 Mass Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P3 Trenching	0.59	0.37	-0.15	0.00	0.90	0.89	0.00	0.00	0.00	0.00	0.00	0.00
P4 Architectural Coating	0.01	0.25	0.00	0.00	0.88	0.88	0.00	0.00	0.00	0.00	0.00	0.00
P4 Mass Grading	0.78	0.59	0.23	0.00	0.94	0.94	0.00	0.00	0.00	0.00	0.00	0.00
P4 Mass Grading Soil Haul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
P4 Trenching	0.51	0.20	-0.17	0.00	0.88	0.86	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	3	3	Level 3	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	Tier 3	1	1	Level 3	0.00
Excavators	Diesel	Tier 3	14	14	Level 3	0.00
Forklifts	Diesel	Tier 3	2	2	Level 3	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	Tier 3	4	4	Level 3	0.00
Other Construction Equipment	Diesel	Tier 3	4	5	Level 3	0.00
Pavers	Diesel	Tier 3	1	1	Level 3	0.00
Paving Equipment	Diesel	Tier 3	2	2	Level 3	0.00
Rollers	Diesel	Tier 3	1	1	Level 3	0.00
Rubber Tired Dozers	Diesel	Tier 3	9	9	Level 3	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 3	21	21	Level 3	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	3.63400E-002	2.48020E-001	2.41790E-001	3.90000E-004	1.78400E-002	1.78400E-002	0.00000E+000	3.34476E+001	3.34476E+001	2.95000E-003	0.00000E+000	3.35095E+001
Cement and Mortar Mixers	5.60000E-004	3.54000E-003	2.96000E-003	1.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	4.39180E-001	4.39180E-001	5.00000E-005	0.00000E+000	4.40140E-001
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	2.34220E-001	2.94274E+000	2.01460E+000	3.00000E-003	1.19120E-001	1.09590E-001	0.00000E+000	2.74549E+002	2.74549E+002	8.52900E-002	0.00000E+000	2.76340E+002
Excavators	1.00450E-001	1.12790E+000	9.29990E-001	1.44000E-003	5.54500E-002	5.10100E-002	0.00000E+000	1.34394E+002	1.34394E+002	4.09200E-002	0.00000E+000	1.35253E+002
Forklifts	1.37430E-001	1.42842E+000	1.03842E+000	1.50000E-003	7.79400E-002	7.17100E-002	0.00000E+000	1.37527E+002	1.37527E+002	4.27200E-002	0.00000E+000	1.38424E+002
Generator Sets	2.34900E-001	1.12835E+000	1.07938E+000	1.80000E-003	6.62500E-002	6.62500E-002	0.00000E+000	1.32541E+002	1.32541E+002	1.90900E-002	0.00000E+000	1.32942E+002

Graders	1.48220E-001	1.50337E+000	7.41700E-001	9.50000E-004	8.44600E-002	7.77000E-002	0.00000E+000	8.87879E+001	8.87879E+001	2.70500E-002	0.00000E+000	8.93560E+001
Pavers	4.84000E-003	4.38800E-002	2.80900E-002	4.00000E-005	3.40000E-003	3.13000E-003	0.00000E+000	3.40656E+000	3.40656E+000	1.03000E-003	0.00000E+000	3.42813E+000
Paving Equipment	7.10000E-003	6.53100E-002	4.32400E-002	6.00000E-005	4.99000E-003	4.59000E-003	0.00000E+000	5.24846E+000	5.24846E+000	1.58000E-003	0.00000E+000	5.28171E+000
Rollers	4.02000E-003	3.72000E-002	2.40600E-002	3.00000E-005	2.74000E-003	2.52000E-003	0.00000E+000	2.95370E+000	2.95370E+000	8.90000E-004	0.00000E+000	2.97241E+000
Rubber Tired Dozers	3.67890E-001	4.09607E+000	3.09384E+000	2.70000E-003	1.90390E-001	1.75150E-001	0.00000E+000	2.53027E+002	2.53027E+002	7.69900E-002	0.00000E+000	2.54644E+002
Tractors/Loaders/Backhoes	4.56110E-001	4.43664E+000	3.69554E+000	4.86000E-003	3.24750E-001	2.98770E-001	0.00000E+000	4.47566E+002	4.47566E+002	1.38150E-001	0.00000E+000	4.50468E+002
Welders	5.31670E-001	1.99428E+000	2.20267E+000	3.02000E-003	1.36360E-001	1.36360E-001	0.00000E+000	2.22059E+002	2.22059E+002	4.33500E-002	0.00000E+000	2.22970E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	7.79000E-003	1.77760E-001	2.40050E-001	3.90000E-004	1.87000E-003	1.87000E-003	0.00000E+000	3.34476E+001	3.34476E+001	2.95000E-003	0.00000E+000	3.35095E+001
Cement and Mortar Mixers	5.60000E-004	3.54000E-003	2.96000E-003	1.00000E-005	1.40000E-004	1.40000E-004	0.00000E+000	4.39180E-001	4.39180E-001	5.00000E-005	0.00000E+000	4.40140E-001
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	7.38400E-002	1.42748E+000	1.59976E+000	3.00000E-003	8.12000E-003	8.12000E-003	0.00000E+000	2.74549E+002	2.74549E+002	8.52900E-002	0.00000E+000	2.76340E+002
Excavators	3.54300E-002	6.85050E-001	1.09253E+000	1.44000E-003	4.96000E-003	4.96000E-003	0.00000E+000	1.34394E+002	1.34394E+002	4.09200E-002	0.00000E+000	1.35253E+002
Forklifts	3.70100E-002	7.15530E-001	1.14114E+000	1.50000E-003	5.18000E-003	5.18000E-003	0.00000E+000	1.37527E+002	1.37527E+002	4.27200E-002	0.00000E+000	1.38424E+002
Generator Sets	2.34900E-001	1.12835E+000	1.07938E+000	1.80000E-003	6.62500E-002	6.62500E-002	0.00000E+000	1.32541E+002	1.32541E+002	1.90900E-002	0.00000E+000	1.32942E+002
Graders	2.30300E-002	4.45160E-001	7.09950E-001	9.50000E-004	3.22000E-003	3.22000E-003	0.00000E+000	8.87878E+001	8.87878E+001	2.70500E-002	0.00000E+000	8.93559E+001
Pavers	8.90000E-004	2.04200E-002	2.75800E-002	4.00000E-005	2.10000E-004	2.10000E-004	0.00000E+000	3.40655E+000	3.40655E+000	1.03000E-003	0.00000E+000	3.42813E+000
Paving Equipment	1.37000E-003	3.12100E-002	4.21500E-002	6.00000E-005	3.30000E-004	3.30000E-004	0.00000E+000	5.24845E+000	5.24845E+000	1.58000E-003	0.00000E+000	5.28170E+000
Rollers	7.70000E-004	1.75500E-002	2.37000E-002	3.00000E-005	1.80000E-004	1.80000E-004	0.00000E+000	2.95370E+000	2.95370E+000	8.90000E-004	0.00000E+000	2.97241E+000
Rubber Tired Dozers	6.57300E-002	1.27086E+000	1.42424E+000	2.70000E-003	7.23000E-003	7.23000E-003	0.00000E+000	2.53027E+002	2.53027E+002	7.69900E-002	0.00000E+000	2.54644E+002
Tractors/Loaders/Backhoes	1.18690E-001	2.71007E+000	3.65958E+000	4.86000E-003	2.84900E-002	2.84900E-002	0.00000E+000	4.47566E+002	4.47566E+002	1.38150E-001	0.00000E+000	4.50467E+002
Welders	5.31670E-001	1.99428E+000	2.20267E+000	3.02000E-003	1.36360E-001	1.36360E-001	0.00000E+000	2.22059E+002	2.22059E+002	4.33500E-002	0.00000E+000	2.22970E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Percent Reduction											
Air Compressors	7.85636E-001	2.83284E-001	7.19633E-003	0.00000E+000	8.95179E-001	8.95179E-001	0.00000E+000	1.19590E-006	1.19590E-006	0.00000E+000	0.00000E+000	1.19369E-006

Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	6.84741E-001	5.14915E-001	2.05917E-001	0.00000E+000	9.31833E-001	9.25906E-001	0.00000E+000	1.16555E-006	1.16555E-006	0.00000E+000	0.00000E+000	1.19418E-006
Excavators	6.47287E-001	3.92632E-001	1.74776E-001	0.00000E+000	9.10550E-001	9.02764E-001	0.00000E+000	1.19053E-006	1.19053E-006	0.00000E+000	0.00000E+000	1.18297E-006
Forklifts	7.30699E-001	4.99076E-001	9.89195E-002	0.00000E+000	9.33539E-001	9.27765E-001	0.00000E+000	1.23612E-006	1.23612E-006	0.00000E+000	0.00000E+000	1.22811E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20717E-006	1.20717E-006	0.00000E+000	0.00000E+000	1.20353E-006
Graders	8.44623E-001	7.03892E-001	4.28071E-002	0.00000E+000	9.61875E-001	9.58559E-001	0.00000E+000	1.12628E-006	1.12628E-006	0.00000E+000	0.00000E+000	1.23103E-006
Pavers	8.16116E-001	5.34640E-001	1.81559E-002	0.00000E+000	9.38235E-001	9.32907E-001	0.00000E+000	2.93551E-006	2.93551E-006	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	8.07042E-001	5.22125E-001	2.52081E-002	0.00000E+000	9.33868E-001	9.28105E-001	0.00000E+000	1.90532E-006	1.90532E-006	0.00000E+000	0.00000E+000	1.89333E-006
Rollers	8.08458E-001	5.28226E-001	1.49626E-002	0.00000E+000	9.34307E-001	9.28571E-001	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	8.21332E-001	6.89737E-001	5.39653E-001	0.00000E+000	9.62025E-001	9.58721E-001	0.00000E+000	1.18564E-006	1.18564E-006	0.00000E+000	0.00000E+000	1.17812E-006
Tractors/Loaders/Backhoes	7.39778E-001	3.89162E-001	9.73065E-003	0.00000E+000	9.12271E-001	9.04642E-001	0.00000E+000	1.20652E-006	1.20652E-006	0.00000E+000	0.00000E+000	1.17656E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17086E-006	1.17086E-006	0.00000E+000	0.00000E+000	1.16608E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
P1 Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.58
P1 Demolition	Roads	0.00	0.00	0.00	0.00	0.08	0.06

P1 Demolition Apshalt Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.58
P1 Demolition Apshalt Haul	Roads	0.00	0.00	0.00	0.00	0.09	0.00
P1 Mass Grading	Fugitive Dust	0.28	0.15	0.12	0.06	0.57	0.57
P1 Mass Grading	Roads	0.00	0.00	0.00	0.00	0.07	0.07
P1 Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P1 Paving	Roads	0.00	0.00	0.00	0.00	0.08	0.07
P1 Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P1 Trenching	Roads	0.00	0.00	0.00	0.00	0.07	0.06
P2 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2 Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.08	0.07
P2 Mass Grading	Fugitive Dust	0.29	0.15	0.12	0.06	0.57	0.57
P2 Mass Grading	Roads	0.00	0.00	0.00	0.00	0.08	0.07
P2 Mass Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.56
P2 Mass Grading Soil Haul	Roads	0.03	0.01	0.03	0.01	0.07	0.06
P2 Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2 Trenching	Roads	0.00	0.00	0.00	0.00	0.07	0.08
P2-P4 Building Construction - Offroad	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P2-P4 Building Construction - Offroad	Roads	0.12	0.03	0.11	0.03	0.08	0.07
P3 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P3 Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.08	0.07
P3 Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.57	0.57
P3 Demolition	Roads	0.00	0.00	0.00	0.00	0.07	0.05
P3 Mass Grading	Fugitive Dust	0.28	0.14	0.12	0.06	0.57	0.57
P3 Mass Grading	Roads	0.00	0.00	0.00	0.00	0.08	0.07
P3 Mass Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.57
P3 Mass Grading Soil Haul	Roads	0.02	0.01	0.02	0.01	0.07	0.06
P3 Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P3 Trenching	Roads	0.00	0.00	0.00	0.00	0.07	0.04
P4 Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P4 Architectural Coating	Roads	0.01	0.00	0.01	0.00	0.08	0.07
P4 Mass Grading	Fugitive Dust	0.58	0.30	0.25	0.13	0.57	0.57
P4 Mass Grading	Roads	0.00	0.00	0.00	0.00	0.08	0.07
P4 Mass Grading Soil Haul	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.57
P4 Mass Grading Soil Haul	Roads	0.03	0.01	0.03	0.01	0.07	0.06
P4 Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
P4 Trenching	Roads	0.00	0.00	0.00	0.00	0.08	0.08

TOD #1 CalEEMod Operation

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Millbrae TOD#1 Operation

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	267.00	1000sqft	0.00	267,000.00	0
Enclosed Parking with Elevator	365.57	1000sqft	0.00	365,574.00	0
Other Asphalt Surfaces	0.59	Acre	0.59	0.00	0
Apartments Low Rise	500.00	Dwelling Unit	2.91	408,500.00	0
Strip Mall	32.00	1000sqft	0.00	32,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Vehicle Trips - Source: Based on information provided by F&P.

Woodstoves - Since the residences are apartments, they are unlikely to install wood fireplaces.

Area Coating - Parking structures were not painted

Water And Wastewater - 100% Aerobic. Based on WSA by GHD April 2015.

Solid Waste - Waste generation rates provided in Section 5.15.4 of Chapter 5.15, Utilities and Service Systmes, of the DEIR.

Area Mitigation - Accomodate CalEEMod bug.

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	70.84
tblAreaCoating	Area_Nonresidential_Interior	996861	470803
tblFireplaces	NumberGas	275.00	500.00
tblFireplaces	NumberNoFireplace	155.00	0.00
tblFireplaces	NumberWood	70.00	0.00
tblLandUse	LandUseSquareFeet	365,570.00	365,574.00
tblLandUse	LandUseSquareFeet	25,700.40	0.00
tblLandUse	LandUseSquareFeet	500,000.00	408,500.00
tblLandUse	LotAcreage	6.13	0.00
tblLandUse	LotAcreage	8.39	0.00
tblLandUse	LotAcreage	31.25	2.91
tblLandUse	LotAcreage	0.73	0.00
tblLandUse	Population	1,430.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	230.00	846.00
tblSolidWaste	SolidWasteGenerationRate	248.31	1,708.00

tblSolidWaste	SolidWasteGenerationRate	33.60	1,708.00
tblVehicleTrips	CC_TL	7.30	10.15
tblVehicleTrips	CC_TL	7.30	10.15
tblVehicleTrips	CC_TL	7.30	10.15
tblVehicleTrips	CC_TL	7.30	10.15
tblVehicleTrips	CNW_TL	7.30	10.15
tblVehicleTrips	CNW_TL	7.30	10.15
tblVehicleTrips	CNW_TL	7.30	10.15
tblVehicleTrips	CNW_TL	7.30	10.15
tblVehicleTrips	CW_TL	9.50	10.15
tblVehicleTrips	CW_TL	9.50	10.15
tblVehicleTrips	CW_TL	9.50	10.15
tblVehicleTrips	CW_TL	9.50	10.15
tblVehicleTrips	HO_TL	5.40	10.15
tblVehicleTrips	HS_TL	4.30	10.15
tblVehicleTrips	HW_TL	12.40	10.15
tblVehicleTrips	ST_TR	7.16	4.71
tblVehicleTrips	ST_TR	2.37	1.61
tblVehicleTrips	ST_TR	42.04	75.34
tblVehicleTrips	SU_TR	6.07	4.02
tblVehicleTrips	SU_TR	0.98	0.69
tblVehicleTrips	SU_TR	20.43	36.61
tblVehicleTrips	WD_TR	6.59	4.83
tblVehicleTrips	WD_TR	11.01	7.23
tblVehicleTrips	WD_TR	44.32	79.42
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00

tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	32,577,012.81	33,945,000.00
tblWater	IndoorWaterUseRate	47,454,910.71	9,745,500.00
tblWater	IndoorWaterUseRate	2,370,320.69	13,678,740.00
tblWater	OutdoorWaterUseRate	20,537,681.99	0.00
tblWater	OutdoorWaterUseRate	29,085,267.86	1,461,825.00
tblWater	OutdoorWaterUseRate	1,452,777.20	2,051,665.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.7747	0.0455	3.8775	6.7000e-004		0.0461	0.0461		0.0460	0.0460	3.1962	30.1140	33.3102	0.0214	4.4000e-004	33.8951
Energy	0.0932	0.8124	0.4589	5.0800e-003		0.0644	0.0644		0.0644	0.0644	0.0000	3,342.1512	3,342.1512	0.1271	0.0395	3,357.0789
Mobile	2.8303	5.6899	29.7015	0.0821	6.2346	0.0865	6.3211	1.6722	0.0799	1.7521	0.0000	5,667.6608	5,667.6608	0.2216	0.0000	5,672.3142
Waste						0.0000	0.0000		0.0000	0.0000	865.1475	0.0000	865.1475	51.1288	0.0000	1,938.851
Water						0.0000	0.0000		0.0000	0.0000	20.2973	93.8836	114.1809	0.0741	0.0450	129.6928
Total	**7.6982**	**6.5478**	**34.0379**	**0.0879**	**6.2346**	**0.1970**	**6.4315**	**1.6722**	**0.1903**	**1.8625**	**888.6410**	**9,133.8096**	**10,022.4506**	**51.5729**	**0.0850**	**11,131.8323**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.7747	0.0455	3.8775	6.7000e-004		0.0461	0.0461		0.0460	0.0460	3.1962	30.1140	33.3102	0.0214	4.4000e-004	33.8951
Energy	0.0721	0.6287	0.3539	3.9300e-003		0.0498	0.0498		0.0498	0.0498	0.0000	2,921.8688	2,921.8688	0.1135	0.0337	2,934.7130
Mobile	2.8303	5.6899	29.7015	0.0821	6.2346	0.0865	6.3211	1.6722	0.0799	1.7521	0.0000	5,667.6608	5,667.6608	0.2216	0.0000	5,672.3142
Waste						0.0000	0.0000		0.0000	0.0000	865.1475	0.0000	865.1475	51.1288	0.0000	1,938.8513
Water						0.0000	0.0000		0.0000	0.0000	16.2379	75.6041	91.8420	0.0590	0.0360	104.2275
Total	**7.6771**	**6.3642**	**33.9330**	**0.0867**	**6.2346**	**0.1824**	**6.4170**	**1.6722**	**0.1758**	**1.8480**	**884.5815**	**8,695.2478**	**9,579.8293**	**51.5442**	**0.0701**	**10,684.0011**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.27**	**2.80**	**0.31**	**1.31**	**0.00**	**7.38**	**0.23**	**0.00**	**7.64**	**0.78**	**0.46**	**4.80**	**4.42**	**0.06**	**17.48**	**4.02**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.8303	5.6899	29.7015	0.0821	6.2346	0.0865	6.3211	1.6722	0.0799	1.7521	0.0000	5,667.6608	5,667.6608	0.2216	0.0000	5,672.3142
Unmitigated	2.8303	5.6899	29.7015	0.0821	6.2346	0.0865	6.3211	1.6722	0.0799	1.7521	0.0000	5,667.6608	5,667.6608	0.2216	0.0000	5,672.3142

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,415.00	2,355.00	2010.00	7,703,431	7,703,431
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	1,930.41	429.87	184.23	4,431,738	4,431,738
Other Asphalt Surfaces	0.00	0.00	0.00		
Strip Mall	2,541.44	2,410.88	1171.52	4,741,414	4,741,414
Total	6,886.85	5,195.75	3,365.75	16,876,582	16,876,582

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	10.15	10.15	10.15	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	10.15	10.15	10.15	0.00	0.00	0.00	0	0	0
General Office Building	10.15	10.15	10.15	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	10.15	10.15	10.15	0.00	0.00	0.00	0	0	0
Strip Mall	10.15	10.15	10.15	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579675	0.062580	0.176542	0.113454	0.029522	0.004156	0.015653	0.004235	0.002668	0.003663	0.006650	0.000222	0.000982

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,208.2039	2,208.2039	0.0999	0.0207	2,216.7048
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,420.2754	2,420.2754	0.1094	0.0226	2,429.5927
NaturalGas Mitigated	0.0721	0.6287	0.3539	3.9300e-003		0.0498	0.0498		0.0498	0.0498	0.0000	713.6650	713.6650	0.0137	0.0131	718.0082
NaturalGas Unmitigated	0.0932	0.8124	0.4589	5.0800e-003		0.0644	0.0644		0.0644	0.0644	0.0000	921.8758	921.8758	0.0177	0.0169	927.4862

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	1.17043e+007	0.0631	0.5393	0.2295	3.4400e-003		0.0436	0.0436		0.0436	0.0436	0.0000	624.5844	624.5844	0.0120	0.0115	628.3855
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	5.41743e+006	0.0292	0.2656	0.2231	1.5900e-003		0.0202	0.0202		0.0202	0.0202	0.0000	289.0947	289.0947	5.5400e-003	5.3000e-003	290.8541
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	153600	8.3000e-004	7.5300e-003	6.3200e-003	5.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	8.1967	8.1967	1.6000e-004	1.5000e-004	8.2466
Total		**0.0932**	**0.8124**	**0.4589**	**5.0800e-003**		**0.0644**	**0.0644**		**0.0644**	**0.0644**	**0.0000**	**921.8758**	**921.8758**	**0.0177**	**0.0169**	**927.4862**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	4.13049e+006	0.0223	0.2025	0.1701	1.2100e-003		0.0154	0.0154		0.0154	0.0154	0.0000	220.4187	220.4187	4.2200e-003	4.0400e-003	221.7601
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	120800	6.5000e-004	5.9200e-003	4.9700e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	6.4464	6.4464	1.2000e-004	1.2000e-004	6.4856
Apartments Low Rise	9.12229e+006	0.0492	0.4203	0.1789	2.6800e-003		0.0340	0.0340		0.0340	0.0340	0.0000	486.7999	486.7999	9.3300e-003	8.9200e-003	489.7625
Total		**0.0721**	**0.6287**	**0.3539**	**3.9300e-003**		**0.0498**	**0.0498**		**0.0498**	**0.0498**	**0.0000**	**713.6650**	**713.6650**	**0.0137**	**0.0131**	**718.0082**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.77818e+006	517.2930	0.0234	4.8400e-003	519.2844
Enclosed Parking with Elevator	2.46397e+006	716.7968	0.0324	6.7100e-003	719.5562
General Office Building	3.70596e+006	1,078.1063	0.0488	0.0101	1,082.2566
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	371520	108.0794	4.8900e-003	1.0100e-003	108.4955
Total		**2,420.2754**	**0.1094**	**0.0227**	**2,429.5927**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.76379e+006	513.1067	0.0232	4.8000e-003	515.0820
Enclosed Parking with Elevator	2.10571e+006	612.5741	0.0277	5.7300e-003	614.9323
General Office Building	3.37154e+006	980.8204	0.0444	9.1800e-003	984.5962
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	349600	101.7027	4.6000e-003	9.5000e-004	102.0942
Total		**2,208.2039**	**0.0999**	**0.0207**	**2,216.7048**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.7747	0.0455	3.8775	6.7000e-004		0.0461	0.0461		0.0460	0.0460	3.1962	30.1140	33.3102	0.0214	4.4000e-004	33.8951
Unmitigated	4.7747	0.0455	3.8775	6.7000e-004		0.0461	0.0461		0.0460	0.0460	3.1962	30.1140	33.3102	0.0214	4.4000e-004	33.8951

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4512					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1909					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0185	2.3900e-003	0.1465	4.8000e-004		0.0256	0.0256		0.0255	0.0255	3.1962	24.0377	27.2339	0.0154	4.4000e-004	27.6940
Landscaping	0.1140	0.0431	3.7311	2.0000e-004		0.0205	0.0205		0.0205	0.0205	0.0000	6.0763	6.0763	5.9500e-003	0.0000	6.2011
Total	**4.7747**	**0.0455**	**3.8775**	**6.8000e-004**		**0.0461**	**0.0461**		**0.0460**	**0.0460**	**3.1962**	**30.1140**	**33.3102**	**0.0214**	**4.4000e-004**	**33.8951**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4512					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.1909					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0185	2.3900e-003	0.1465	4.8000e-004		0.0256	0.0256		0.0255	0.0255	3.1962	24.0377	27.2339	0.0154	4.4000e-004	27.6940
Landscaping	0.1140	0.0431	3.7311	2.0000e-004		0.0205	0.0205		0.0205	0.0205	0.0000	6.0763	6.0763	5.9500e-003	0.0000	6.2011
Total	**4.7747**	**0.0455**	**3.8775**	**6.8000e-004**		**0.0461**	**0.0461**		**0.0460**	**0.0460**	**3.1962**	**30.1140**	**33.3102**	**0.0214**	**4.4000e-004**	**33.8951**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	91.8420	0.0590	0.0360	104.2275
Unmitigated	114.1809	0.0741	0.0450	129.6928

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	33.945 / 0	65.4434	0.0438	0.0266	74.6135
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	9.7455 / 1.46182	20.2770	0.0126	7.6600e-003	22.9155
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	13.6787 / 2.05166	28.4606	0.0177	0.0108	32.1639
Total		**114.1809**	**0.0741**	**0.0450**	**129.6928**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	27.156 / 0	52.3547	0.0348	0.0213	59.6755
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	7.7964 / 1.37265	16.4285	0.0101	6.1200e-003	18.5356
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	10.943 / 1.92651	23.0588	0.0141	8.5800e-003	26.0164
Total		**91.8420**	**0.0590**	**0.0360**	**104.2275**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	865.1475	51.1288	0.0000	1,938.8513
Unmitigated	865.1475	51.1288	0.0000	1,938.8513

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	846	171.7304	10.1490	0.0000	384.8588
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1708	346.7086	20.4899	0.0000	776.9962
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1708	346.7086	20.4899	0.0000	776.9962
Total		**865.1475**	**51.1288**	**0.0000**	**1,938.8513**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	846	171.7304	10.1490	0.0000	384.8588
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1708	346.7086	20.4899	0.0000	776.9962
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	1708	346.7086	20.4899	0.0000	776.9962
Total		**865.1475**	**51.1288**	**0.0000**	**1,938.8513**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Millbrae TOD#1 Operation

San Mateo County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.76	8.76	8.76	8.79	8.76
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	22.59	22.61	22.87	22.64	22.58	22.58	0.00	22.59	22.59	22.64	22.60	22.59
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	19.47	19.56	20.39	20.14	19.64
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.21	0.51		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
Yes	Use Low VOC Paint (Non-residential Exterior)	70.84
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

TOD #1 CalEEMod Input Worksheets

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CalEEMod Land Use Inputs - TOD #1 Buildout

Type	Land Use Subtype	LandUseUnitAmount	LandUseSizeMetric	LotAcreage	LandUseSquareFeet
Residential	Apartments - Low Rise	500	DU	2.91	408,500
Retail*	Strip Mall	32.000	1000bsf	0	32,000
Commercial*	General Office	267.00	1000bsf	0	267,000
Parking (Internal Roadway)**	Other Asphalt	0.59	acre	0.59	0
Underground Parking Structure*	Parking Structure (w/elevator)	365.574	1000bsf	0.00	365,574
				3.50	acres

*Acreage assumed under the residential land use.
**Based on the site plan as measured using Google Earth Pro.

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	2020
Land Use Setting	Urban
Utility Company	PG&E

Land Uses	Office SF	Retail SF	Residential	Residential Square Feet	Underground Parking Structure*	Population	Employees
TOD #1	267,000	32,000	500	408,500	365,574	1,325	1,148

**Based on measurement of parking plan using Google Earth Pro and assumption of three parking levels*

Trip Generation:

Residential

500.00	dwelling units (DU)
4.83	trips/DU
2,415	Average Daily Trips (ADT)*

Retail

32.00	1000bsf
79.42	trips/1000bsf
2,542	Average Daily Trips (ADT)*

Office

267.00	1000bsf
7.23	trips/1000bsf
1,931	Average Daily Trips (ADT)*

Total Average Daily Trips: 6,888 ADTs

*Source: Based on information provided by F&P.

Land Use	Calculated Weekday Trip Rate	ITE Trip Rate*	Adjusted Saturday and Sunday Trip Rate	ITE Saturday Trip Rate*	ITE Sunday Trip Rate*	Adjusted Saturday Trip Rate	Adjusted Sunday Trip Rate
Residential	4.831	5.81	*83.15%*	5.67	4.84	4.71	4.02
Retail	79.422	44.32	*179.20%*	42.04	20.43	75.34	36.61
Office	7.231	11.03	*65.56%*	2.46	1.05	1.61	0.69

**Source: ITE Trip Generation Manual, 9th Edition.*

Average Trip Length: **10.15** miles per trip*

Water Use

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

Total Water Demand**

Land Use Type	Water Demand (gpd)	Water Demand (gpy)
Office	30,705	11,207,325
Retail	2,208	805,920
Restaurants	40,889	14,924,485
Residential Units	93,000	33,945,000
TOTAL	**166,802**	**60,882,730**

Wastewater

Land Use	Wastewater (gpd)	Wastewater (gpy)
Office	26,700	9,745,500
Retail	1,920	700,800
Restaurants	35,556	12,977,940
Residential Units	93,000	33,945,000
TOTAL	**157,176**	**57,369,240**

CalEEMod Inputs

Land Use	Indoor Water Use (gpy)	Outdoor Water Use (gpy)
Office	9,745,500	1,461,825
Strip Mall**	13,678,740	2,051,665
Residential Units	33,945,000	0
TOTAL	**57,369,240**	**3,513,490**

**WSA by GHD April 2015*

***Includes restaurant wastewater generation of 12,977,940 gpy*

Solid Waste*

Residential Solid Waste Rate	3.5	lbs per day per resident
on-Residential Average Waste Rate	16.3	lbs per day per employee

Land Uses	Population	Solid Waste (lbs/day)	Solid Waste (tons/day)	Solid Waste (tons/yr)
Residents	1,325	4,638	2	846
Employees	1,148	18,712	9	3,415
TOTALs		**23,350**	**11.7**	**4,261**

*Waste generation rates provided in Section 5.15.4 of Chapter 5.15, Utilities and Service Systmes, of the DEIR.

CalEEMod Inputs

Land Uses		Solid Waste (tons/yr)
Apartments - Low Rise		*846*
	subtotal	846
Strip Mall		*1,708*
General Office		*1,708*
	subtotal	3,415
	TOTALs	**4,261**

*Waste generation rates provided in Section 5.15.4 of Chapter 5.15, Utilities and Service Systmes, of the DEIR.

Energy Use

All new buildings would be built to meet the 2013 Building Energy Efficiency Standards which are 25% and 30% more energy efficient for residential and non-residential buildings, respectively, compared to the 2008 Building Energy Efficiency Standards. For purposes of modeling, it is assumed all buildings would be 25% more energy efficient.

Area - Hearths

0%	Woodstoves
0%	Wood Fireplace
100%	Gas Fireplace

Since the residences are apartments, they are unlikely to install wood fireplaces.

Water Mitigation

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
e Water Efficiency Irrigation System	6.1	% Reduction in flow

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

	Paintable Interior Area	Paintable Exterior Area
Residential	827,213	275,738
Non-Residential	470,803	156,934

CalEEMod Construction Run Land Use Inputs - TOD #1 Land Use Buildout Summary

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet	Phase
Residential	Apartments - Low Rise	500	DU	2.91	408,500	P2, P3, P4
Retail*	Strip Mall	32.00	1000bsf	0	32,000	P2, P3, P4
Commercial*	General Office	267.00	1000bsf	0	267,000	P2, P3, P4
Parking (Internal Roadway)**	Other Asphalt	0.59	acre	0.59	0	P1
Parking Structure	Enclosed Parking Structure w/elevator	365.574	1000bsf	0	365,574	P2, P3, P4

*Acreage assumed under the residential land use.

**Based on the site plan as measured using from Google Earth Pro.

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	-
Land Use Setting	Urban
Utility Company	PG&E

Construction Phasing - TOD #1

5-Day Work Week

CalEEMod Default Schedule

Phase Name*	Start Date	End Date	CalEEMod Days
P1 Demolition	1/1/2016	1/31/2016	21
P1 Demolition - Asphalt Haul	1/1/2016	1/31/2016	21
P1 Mass Grading	2/1/2016	3/31/2016	44
P1 Trenching/Utilities	4/1/2016	5/31/2016	43
P2 Mass Grading	7/1/2016	10/31/2016	87
P2 Mass Grading Soil Haul	7/1/2016	9/30/2016	66
P1 Paving	8/1/2016	8/31/2016	23
P2 Trenching	10/1/2016	10/31/2016	21
P2-P4 Building Construction	11/1/2016	11/30/2019	804
P3 Demolition	1/1/2017	1/31/2017	22
P3 Mass Grading	2/1/2017	5/31/2017	86
P3 Mass Grading Soil Haul	2/1/2017	4/30/2017	63
P3 Trenching	6/1/2017	6/30/2017	22
P4 Mass Grading	10/1/2017	1/31/2018	88
P4 Mass Grading Soil Haul	10/1/2017	12/31/2017	65
P4 Trenching	2/1/2018	2/28/2018	20
P2 Architectural Coating	5/1/2018	8/31/2018	89
P3 Architectural Coating	1/1/2019	4/30/2019	86
P4 Architectural Coating	9/1/2019	12/31/2019	87

CalEEMod Construction Run Land Use Inputs - TOD #1 Phase 1*

**Based on information provided by the Applicant unless otherwise noted*

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Parking (internal roadway)	Other asphalt surface	0.59	acre	0.59	0

Project Location:	San Mateo County
Climate Zone:	5
Operation Year:	--
Land Use Setting:	Urban
Utility Company:	PG&E

Land Uses

Internal Circulation (Asphalt)*	25,709	SF

**As measured using Google Earth.*

Demolition

Asphalt Square Footage Demolishea	362	tons			
Total Haul Trips	34	trip ends			
1-way haul distance	15	miles (CalEEMod Default)			
Haul truck capacity	21	tons			
Building Square Footage Demolishea	18,328	building square feet			
*BSF to ton conversion rate:**	0.046	ton/BSF			
Amount:	843	tons			
Haul truck capacity	21	tons			
Total Haul Trips	80	trip ends	83	1.2641662	tons/cy
1-way haul distance	15	miles			

**CalEEMod User's Guide, Version 2013.2.2, Appendix A.*

Construction Equipment Mix*

*Information provided/verified by the Applicant

Type of Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	CalEEMod Vendor Trips
Demolition					**20**	**0**
Concrete/Industrial Saws	**1**	8	**10**	**0.38**		
Rubber Tired Dozers	**2**	8	**357**	**0.40**		
Tractors/Loaders/Backhoes	**3**	8	**108**	**0.37**		
Workers	**10**				**20**	
Vendors	**0**					**0**
Rough Grading					**20**	**4**
Graders	**1**	8	**174**	**0.41**		
Rubber Tired Dozers	**2**	8	**357**	**0.40**		
Tractors/Loaders/Backhoes	**2**	7	**108**	**0.37**		
Water Truck*	**1**					**4**
Workers	**10**				**20**	
Vendors	**0**					**0**
Trenching/Utilities					**10**	**8**
Excavator	**1**	8	**168**	**0.38**		
Other General Equipment	**2**	8	**238**	**0.42**		
Water Truck*	**1**					**4**
Workers	**5**				**10**	
Vendors	**2**					**4**
Paving					**20**	**0**
Cement and Mortar Mixers	**1**	6	**10**	**0.56**		
Paver	**1**	7	**100**	**0.42**		
Paving Equipment	**2**	6	**104**	**0.36**		
Rollers	**1**	7	**95**	**0.38**		
Tractors/Loaders/Backhoes	**1**	7	**108**	**0.37**		
Workers	**10**				**20**	
Vendors	**0**					**0**

*Assumes 4 trip ends per day.

Pavement Volume to Weight Conversion - TOD #1 Phase 1

Location	Total SF of Roadway[1]	Assumed Thickness (Foot)[2]	Parking Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf)[3]	AC Mass (lbs)	AC Mass (tons)
General	48,200	0.33	16,067	45	723,000	362
					Total	**362**

[1] As verified by the Applicant.

[2] *Pavements and Surface Materials* . Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Conneticut Cooperative Extension System, 1999.

[3] http://www.reade.com/Particle_Briefings/spec_gra2.html

CalEEMod Construction Run Land Use Inputs - TOD #1 Phase 2*

**Based on information provided by the Applicant, unless otherwise noted.*

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Multifam	150	DU	-	122,550
Retail	Strip Mall	10.667	1000BSF	-	10,667
Commercial	General Office	89.000	1000BSF	-	89,000
Parking	Parking Structure - Elevator	121.86	1000BSF	-	351,251

Project Location:	San Mateo County
Climate Zone:	5
Operation Year:	
Land Use Setting:	Urban
Utility Company:	PG&E

Land Uses	Office SF*	Retail SF*	Residential	Residential BSF	Parking Structure*
Phase 2	89,000	10,667	150	122,550	121,858

**Assumed to be equally built over Phases 2 through 4 for purposes of this analysis.*

Soil Haul

Export Haul Volume	37,564	cubic yards
Total Haul Trips	6,261	trip ends (CalEEMod Default)
1-way haul distance	15	miles (CalEEMod Default)
Haul truck capacity	12	CY

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

Assumptions*	
Parking Structure ExteriorWall Painted Area:	0%
Parking Structure Interior Wall Painted Area:	0%
Exterior Office/Retail	100%
Interior Office/Retail:	100%
Exterior Residential	100%
Interior Residential:	100%

**Assumed for purposes of this analysis.*

Land Uses	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Residential	122,550	2.7	330,885	248,164	82,721
			Subtotal:	248,164	82,721

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Retail	10,667	2.0	21,333	16,000	5,333
Commercial	89,000	2.0	178,000	133,500	44,500
Parking Structure[3]	165,206	0.06	9,912	7,434	2,478
			Subtotal:	156,934	52,311

[1] Applied CalEEMod Methodology in calculating total

[2] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

[3] Applied the CalEEMod methodology in calculating the paintable surface area for parking lots.

Construction Equipment Mix - TOD #1 Phase 2*

*Information verified by the Applicant

Type of Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	CalEEMod Vendor Trips	Total Haul Trips	1-way Haul Trip
Rough Grading					**4**	**0**	**Default**	**Default**
Rubber Tired Dozers	**1**	8	**357**	**0.40**				
Tractors/Loaders/Backhoes	**3**	7	**108**	**0.37**				
Workers	**2**				**4**			
Trenching/Utilities					**10**	**0**	**Default**	**Default**
Excavator	**1**	8	**168**	**0.38**				
Other General Equipment	**1**	8	**238**	**0.42**				
Workers	**5**				**10**			
Vendors	**0**					**0**		
Building Construction					**30**	**6**	**Default**	**Default**
Cranes	**1**	6	**399**	**0.29**				
Forklifts	**2**	6	**145**	**0.20**				
Generator Sets	**1**	8	**49**	**0.74**				
Welders	**3**	8	**45**	**0.45**				
Workers	**15**				**30**			
Vendors	**3**					**6**		
Architectural Coating					**20**	**0**	**Default**	**Default**
Air Compressors	**1**	6	**78**	**0.48**				
Workers	**10**				**20**			
Vendors	**0**					**0**		

*Assumes 4 trip ends per day.

CalEEMod Construction Run Land Use Inputs - TOD #1 Phase 3*

**Based on information provided by the Applicant, unless otherwise noted.*

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Multifam	175	DU	-	142,975
Retail	Strip Mall	10.667	1000BSF	-	10,667
Commercial	General Office	89.000	1000BSF	-	89,000
Parking	Parking Structure - Elevator	121.86	1000BSF	-	351,251

Project Location:	San Mateo County
Climate Zone:	5
Operation Year:	
Land Use Setting:	Urban
Utility Company:	PG&E

Land Uses	Office SF*	Retail SF*	Residential	Residential BSF	Parking Structure*
Phase 2	89,000	10,667	175	142,975	121,858

**Assumed to be equally built over Phases 2 through 4 for purposes of this analysis.*

Demolition

Building Square Footage Demolished	18,000	building square feet
*BSF to ton conversion rate:**	0.046	ton/BSF
Amount:	828	tons
Haul truck capacity	21	tons
Total Haul Trips	79	trip ends
1-way haul distance	15	miles

**CalEEMod User's Guide, Version 2013.2.2, Appendix A.*

Soil Haul

Export Haul Volume	24,875	cubic yards
Total Haul Trips	4,146	trip ends (CalEEMod Default)
1-way haul distance	15	miles (CalEEMod Default)
Haul truck capacity	12	CY

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

Assumptions*	
Parking Structure Exterior Painted Area:	0%
Parking Structure Interior Painted Area:	0%
Exterior Office/Retail	100%
Interior Office/Retail:	100%
Exterior Residential	100%
Interior Residential:	100%

**Assumed*

Land Uses	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Residential	142,975	2.7	386,033	289,524	96,508
			Subtotal:	289,524	96,508

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Retail	10,667	2.0	21,333	16,000	5,333
Commercial	89,000	2.0	178,000	133,500	44,500
Parking Structure[3]	165,206	0.06	9,912	7,434	2,478
			Subtotal:	156,934	52,311

[1] Applied CalEEMod Methodology in calculating total

[2] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

[3] Applied the CalEEMod methodology in calculating the paintable surface area for parking lots.

Construction Equipment Mix - TOD #1 Phase 3*

*Information verified by the Applicant

Type of Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	CalEEMod Vendor Trips
Demolition (Phase 1 equipment mix assumed)					**20**	**0**
Concrete/Industrial Saws	**1**	8	**10**	**0.38**		
Rubber Tired Dozers	**2**	8	**357**	**0.40**		
Tractors/Loaders/Backhoes	**3**	8	**108**	**0.37**		
Workers	**10**				**20**	
Rough Grading					**4**	**0**
Graders	**0**	8	**174**	**0.41**		
Rubber Tired Dozers	**1**	8	**357**	**0.40**		
Tractors/Loaders/Backhoes	**3**	7	**108**	**0.37**		
Workers	**2**				**4**	
Trenching/Utilities					**10**	**0**
Excavator	**1**	8	**168**	**0.38**		
Other General Equipment	**1**	8	**238**	**0.42**		
Workers	**5**				**10**	
Building Construction					**30**	**6**
Cranes	**1**	6	**399**	**0.29**		
Forklifts	**2**	6	**145**	**0.20**		
Generator Sets	**1**	8	**49**	**0.74**		
Welders	**3**	8	**45**	**0.45**		
Workers	**15**				**30**	
Vendors	**3**					**6**
Architectural Coating					**20**	**0**
Air Compressors	**1**	6	**78**	**0.48**		
Workers	**10**				**20**	

*Assumes 4 trip ends per day.

CalEEMod Construction Run Land Use Inputs - TOD #1 Phase 4*

**Based on information provided by the Applicant, unless otherwise noted.*

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Multifam	175	DU	-	142,975
Retail	Strip Mall	10.667	1000BSF	-	10,667
Commercial	General Office	89.000	1000BSF	-	89,000
Parking	Parking Structure - Elevator	121.86	1000BSF	-	351,251

Project Location:	San Mateo County
Climate Zone:	5
Operation Year:	-
Land Use Setting:	Urban
Utility Company:	PG&E

Land Uses	Office SF*	Retail SF*	Residential	Residential BSF	Parking Structure*
Phase 2	89,000	10,667	175	142,975	121,858

**Assumed to be equally built over Phases 2 through 4 for purposes of this analysis.*

Soil Haul

Export Haul Volume	35,195	cubic yards
Total Haul Trips	5,866	trip ends (CalEEMod Default)
1-way haul distance	15	miles (CalEEMod Default)
Haul truck capacity	12	CY

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

Assumptions*	
Parking Structure Exterior Painted Area:	0%
Parking Structure Interior Painted Area:	0%
Exterior Office/Retail	100%
Interior Office/Retail:	100%
Exterior Residential	100%
Interior Residential:	100%

**Assumed*

Land Uses	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Residential	142,975	2.7	386,033	289,524	96,508
			Subtotal:	289,524	96,508

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Retail	10,667	2.0	21,333	16,000	5,333
Commercial	89,000	2.0	178,000	133,500	44,500
Parking Structure[3]	165,206	0.06	9,912	7,434	2,478
			Subtotal:	156,934	52,311

[1] Applied CalEEMod Methodology in calculating total

[2] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

[3] Applied the CalEEMod methodology in calculating the paintable surface area for parking lots.

Construction Equipment Mix - TOD #1 Phase 4*

*Information verified by the Applicant

Type of Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	CalEEMod Vendor Trips
Rough Grading					**4**	**0**
Graders	**0**	8	**174**	**0.41**		
Rubber Tired Dozers	**1**	8	**357**	**0.40**		
Tractors/Loaders/Backhoes	**3**	7	**108**	**0.37**		
Workers	**2**				**4**	
Vendors	**0**					**0**
Trenching/Utilities					**10**	**0**
Excavator	**1**	8	**168**	**0.38**		
Other General Equipment	**1**	8	**238**	**0.42**		
Workers	**5**				**10**	
Building Construction					**30**	**6**
Cranes	**1**	6	**399**	**0.29**		
Forklifts	**2**	6	**145**	**0.20**		
Generator Sets	**1**	8	**49**	**0.74**		
Welders	**3**	8	**45**	**0.45**		
Workers	**15**				**30**	
Vendors	**3**					**6**
Architectural Coating					**10**	**0**
Air Compressors	**1**	6	**78**	**0.48**		
Workers	**5**				**10**	
Vendors	**0**					**0**

*Assumes 4 trip ends per day.

TOD #2 Emissions Worksheets

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Regional Construction Emissions - TOD #2

Annual Average Emissions with Best Control Measures for Fugitive Dust

No. of Construction Days:

Year	Start	End	Workdays
2016	1/1/2016	12/31/2016	261
2017	1/1/2017	12/31/2017	260
2018	1/1/2018	12/31/2018	261
2019	1/1/2019	12/31/2019	261
2020	1/1/2020	10/31/2020	218
Entire	1/1/2016	10/31/2020	1,261

Emissions by Year (tons/year)

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2016	0.7681	6.6815	6.0467	0.0084	0.4077	0.3191	0.7268	0.1380	0.2948	0.4328
2017	0.7751	4.2357	8.0994	0.0139	0.6722	0.1609	0.8331	0.1825	0.1519	0.3344
2018	3.2946	3.4866	7.1349	0.0132	0.6455	0.1352	0.7807	0.1752	0.1282	0.3033
2019	0.2620	1.6469	1.9001	0.0030	0.0490	0.0899	0.1388	0.0134	0.0857	0.0991
2020	0.5943	1.9835	2.0729	0.0032	0.0797	0.1039	0.1836	0.0275	0.0974	0.1248
Total	**5.6941**	**18.0343**	**25.2540**	**0.0418**	**1.8541**	**0.8089**	**2.6630**	**0.5365**	**0.7579**	**1.2945**

Average Daily Emissions (lbs/day)

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2016	6	51	46	0.1	3	2	6	1	2	3
2017	6	33	62	0.1	5	1	6	1	1	3
2018	25	27	55	0.1	5	1	6	1	1	2
2019	2	13	15	0.0	0.4	1	1	0.1	1	1
2020	5	18	19	0.0	1	1	2	0.3	1	1
Total	**9**	**29**	**40**	**0.1**	**3**	**1**	**4**	**1**	**1**	**2**
BAAQMD Average Daily Threshold	54	54	NA	NA	BMPs	82	NA	BMPs	54	NA
Exceed Average Daily Thresholds?	No	No	NA	NA	NA	No	NA	NA	No	NA

Operational Criteria Air Pollutant Emissions Summary - TOD #2

Annual Emissions

Sources	Tons/yr	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources		5.01	0.03	0.03	0.03
Energy Use		0.04	0.32	0.02	0.02
Mobile Sources		3.16	6.00	6.55	1.82
Waste Generation		0.00	0.00	0.00	0.00
Water/Wastewater		0.00	0.00	0.00	0.00
Total		**8.21**	**6.35**	**6.61**	**1.87**
BAAQMD Threshold (Annual)		10	10	15	10
Exceeds Threshold		No	No	No	No

Average Daily Emissions*

*Annual emissions divided by 365 days/year to obtain average daily emissions.

Sources	lbs/day	ROG	NOx	PM10 Total	PM2.5 Total
Area Sources		27.48	0.16	0.16	0.16
Energy Use		0.20	1.75	0.14	0.14
Mobile Sources		17.29	32.86	35.89	9.95
Waste Generation		0.00	0.00	0.00	0.00
Water/Wastewater		0.00	0.00	0.00	0.00
Total		**44.97**	**34.78**	**36.19**	**10.25**
BAAQMD Threshold (Daily)		54	54	82	54
Exceeds Threshold		No	No	No	No

GHG Emissions Worksheet - TOD #2

Proposed Project Buildout

Construction

	MTons Total
2016	749
2017	1,129
2018	1,040
2019	242
2020	267
Total Construction	**3,428**
30-Year Amortization*	**114**

Operation

Source	Buildout MTons/Year	Percent of Project Total
Area	22	0%
Energy	2,237	23%
Mobile	5,897	61%
Waste	1,422	15%
Water	104	1%
Total All Sectors	9,681	100%
Total without Waste Generation	8,259	

*Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2010, September 28. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 15. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-%28ghg%29-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf?sfvrsn=2.

TOD #2 CalEEMod Output

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TOD #2 CalEEMod Construction: Unmitigated

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Millbrae TOD 2 Construction

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	164.53	1000sqft	0.00	164,535.00	0
Enclosed Parking with Elevator	351.25	1000sqft	2.06	351,251.00	0
Other Asphalt Surfaces	3.04	Acre	3.04	0.00	0
Other Non-Asphalt Surfaces	0.64	Acre	0.64	0.00	0
Parking Lot	5.65	Acre	5.65	246,000.00	0
High Turnover (Sit Down Restaurant)	5.25	1000sqft	0.12	5,250.00	0
Hotel	116.00	Room	0.47	55,440.00	0
Apartments Mid Rise	321.00	Dwelling Unit	2.08	321,293.00	0
Strip Mall	41.69	1000sqft	2.08	41,685.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Construction Phase - Based on information verified and provided by the Applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Based on information verified by the Applicant.

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Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Trips and VMT - Water truck assumed as 4 vendor trips. Coating and building trips based on CalEEMod methodology and land use amounts for each development phase. Building Construction Crane trips accounted in Building Construction subphases

Demolition -

Grading -

Architectural Coating - Based on the calculated paintable surfaces for each development phase and on information provided by the Applicant.

Construction Off-road Equipment Mitigation - BAAQMD Fugitive Dust Control BMP

Off-road Equipment - Proxy for pile driver. Based on information provided by the Applicant.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	312,771.00	30,686.00
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tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	312,771.00	1,280.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	938,312.00	92,057.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	938,312.00	12,941.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	938,312.00	310,367.00
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tblArchitecturalCoating	ConstArea_Residential_Interior	650,618.00	0.00
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tblConstructionPhase	NumDays	300.00	565.00
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tblConstructionPhase	NumDays	30.00	22.00
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tblConstructionPhase	NumDays	30.00	66.00
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tblConstructionPhase	PhaseEndDate	9/2/2020	7/31/2020
tblConstructionPhase	PhaseEndDate	11/17/2020	10/30/2020
tblConstructionPhase	PhaseEndDate	6/14/2016	5/13/2016
tblConstructionPhase	PhaseEndDate	5/31/2019	6/30/2017
tblConstructionPhase	PhaseEndDate	8/31/2020	7/31/2020
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tblConstructionPhase	PhaseEndDate	4/2/2019	7/31/2020
tblConstructionPhase	PhaseEndDate	6/14/2016	6/30/2016
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tblConstructionPhase	PhaseEndDate	12/17/2018	11/15/2018
tblConstructionPhase	PhaseEndDate	12/1/2020	10/31/2020
tblConstructionPhase	PhaseEndDate	12/14/2018	12/31/2018
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tblConstructionPhase	PhaseStartDate	11/1/2020	10/15/2020
tblConstructionPhase	PhaseStartDate	6/1/2016	5/1/2016
tblConstructionPhase	PhaseStartDate	12/1/2018	1/1/2017
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tblConstructionPhase	PhaseStartDate	8/1/2020	12/1/2018
tblConstructionPhase	PhaseStartDate	3/1/2019	7/1/2020
tblConstructionPhase	PhaseStartDate	5/14/2016	6/1/2016
tblConstructionPhase	PhaseStartDate	2/27/2016	3/1/2016
tblConstructionPhase	PhaseStartDate	12/1/2018	11/1/2018
tblConstructionPhase	PhaseStartDate	10/1/2020	9/1/2020
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tblLandUse	LotAcreage	8.45	2.08

tblLandUse	LotAcreage	0.96	2.08
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tblTripsAndVMT	VendorTripNumber	176.00	0.00

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tblTripsAndVMT	WorkerTripNumber	573.00	0.00
tblTripsAndVMT	WorkerTripNumber	115.00	103.00
tblTripsAndVMT	WorkerTripNumber	573.00	35.00
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tblTripsAndVMT	WorkerTripNumber	573.00	515.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.7681	6.6815	6.0467	8.3900e-003	0.7169	0.3191	1.0360	0.2582	0.2948	0.5530	0.0000	746.1478	746.1478	0.1507	0.0000	749.3122
2017	0.7751	4.2358	8.0994	0.0139	0.7271	0.1609	0.8880	0.1960	0.1519	0.3479	0.0000	1,127.2399	1,127.2399	0.0864	0.0000	1,129.0532
2018	3.2946	3.4866	7.1349	0.0132	0.6983	0.1352	0.8335	0.1881	0.1282	0.3163	0.0000	1,038.5979	1,038.5979	0.0745	0.0000	1,040.1626
2019	0.2620	1.6469	1.9001	2.9900e-003	0.0530	0.0899	0.1428	0.0143	0.0857	0.1000	0.0000	240.9674	240.9674	0.0452	0.0000	241.9165
2020	0.5943	1.9835	2.0729	3.2400e-	0.1380	0.1039	0.2419	0.0510	0.0974	0.1483	0.0000	266.1117	266.1117	0.0620	0.0000	267.4136
Total	**5.6941**	**18.0343**	**25.2540**	**0.0418**	**2.3332**	**0.8089**	**3.1421**	**0.7076**	**0.7579**	**1.4655**	**0.0000**	**3,419.0646**	**3,419.0646**	**0.4187**	**0.0000**	**3,427.8580**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.7681	6.6815	6.0467	8.3900e-003	0.4077	0.3191	0.7268	0.1380	0.2948	0.4328	0.0000	746.1472	746.1472	0.1507	0.0000	749.3116
2017	0.7751	4.2357	8.0994	0.0139	0.6722	0.1609	0.8331	0.1825	0.1519	0.3344	0.0000	1,127.2396	1,127.2396	0.0864	0.0000	1,129.0530
2018	3.2946	3.4866	7.1349	0.0132	0.6455	0.1352	0.7807	0.1752	0.1282	0.3033	0.0000	1,038.5977	1,038.5977	0.0745	0.0000	1,040.1623
2019	0.2620	1.6469	1.9001	2.9900e-003	0.0490	0.0899	0.1388	0.0134	0.0857	0.0991	0.0000	240.9672	240.9672	0.0452	0.0000	241.9163
2020	0.5943	1.9835	2.0729	3.2400e-	0.0797	0.1039	0.1836	0.0275	0.0974	0.1248	0.0000	266.1114	266.1114	0.0620	0.0000	267.4133
Total	**5.6941**	**18.0343**	**25.2540**	**0.0418**	**1.8541**	**0.8089**	**2.6630**	**0.5365**	**0.7579**	**1.2945**	**0.0000**	**3,419.0631**	**3,419.0631**	**0.4187**	**0.0000**	**3,427.8565**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**20.53**	**0.00**	**15.25**	**24.18**	**0.00**	**11.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition P1	Demolition	1/1/2016	1/31/2016	5	21	
2	Trenching P1	Trenching	2/1/2016	2/26/2016	5	20	
3	Fine Grading P1	Grading	3/1/2016	4/29/2016	5	44	
4	Paving P1	Paving	5/1/2016	5/31/2016	5	22	
5	Architectural Coating P1	Architectural Coating	5/1/2016	5/13/2016	5	10	
6	Demolition P2	Demolition	6/1/2016	6/30/2016	5	22	
7	Mass Grading P2	Grading	7/1/2016	9/30/2016	5	66	
8	Trenching P2	Trenching	7/1/2016	7/31/2016	5	21	
9	Grading Pile Driver P2	Grading	8/1/2016	9/30/2016	5	45	
10	Building Construction P2	Building Construction	10/1/2016	11/30/2018	5	565	
11	Building Construction Crane P2	Building Construction	1/1/2017	6/30/2017	5	130	
12	Architectural Coating P2	Architectural Coating	10/1/2018	11/30/2018	5	45	
13	Asphalt Paving P2	Paving	11/1/2018	11/15/2018	5	11	
14	Trenching P3	Trenching	12/1/2018	12/31/2018	5	21	
15	Building Construction P3	Building Construction	12/1/2018	7/31/2020	5	435	
16	Building Construction Crane P3	Building Construction	12/1/2018	2/28/2019	5	64	
17	Demolition P4	Demolition	7/1/2020	7/31/2020	5	23	
18	Architectural Coating P3	Architectural Coating	7/1/2020	7/31/2020	5	23	
19	Trenching P4	Trenching	8/1/2020	8/31/2020	5	21	
20	Fine Grading P4	Grading	9/1/2020	9/30/2020	5	22	
21	Asphalt Paving P4	Paving	9/1/2020	10/31/2020	5	44	
22	Architectural Coating P4	Architectural Coating	10/15/2020	10/30/2020	5	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,941; Non-Residential Outdoor: 4,314 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition P1	Concrete/Industrial Saws	1	8.00	10	0.73
Demolition P1	Excavators	0	8.00	162	0.38
Demolition P1	Rubber Tired Dozers	1	8.00	357	0.40
Demolition P1	Tractors/Loaders/Backhoes	3	8.00	108	0.37
Trenching P1	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Fine Grading P1	Excavators	2	8.00	157	0.38
Fine Grading P1	Graders	1	8.00	174	0.41
Grading Pile Driver P2	Other Construction Equipment	1	8.00	327	0.42
Fine Grading P1	Rubber Tired Dozers	1	8.00	357	0.40
Fine Grading P1	Scrapers	2	8.00	356	0.48
Fine Grading P1	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Paving P1	Cement and Mortar Mixers	4	6.00	10	0.56
Paving P1	Pavers	1	7.00	100	0.42
Paving P1	Paving Equipment	2	6.00	104	0.36
Paving P1	Rollers	1	7.00	95	0.38
Paving P1	Tractors/Loaders/Backhoes	1	7.00	108	0.37
Architectural Coating P1	Air Compressors	1	6.00	78	0.48
Demolition P2	Concrete/Industrial Saws	1	8.00	10	0.73
Demolition P2	Excavators	0	8.00	162	0.38
Demolition P2	Rubber Tired Dozers	1	8.00	357	0.40

Demolition P2	Tractors/Loaders/Backhoes	3	8.00	108	0.37
Mass Grading P2	Excavators	2	8.00	157	0.38
Mass Grading P2	Graders	1	8.00	174	0.41
Mass Grading P2	Rubber Tired Dozers	1	8.00	357	0.40
Mass Grading P2	Scrapers	2	8.00	356	0.48
Mass Grading P2	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Trenching P2	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Building Construction P2	Cranes	0	7.00	226	0.29
Building Construction P2	Forklifts	2	6.00	145	0.20
Building Construction P2	Generator Sets	0	8.00	84	0.74
Building Construction P2	Tractors/Loaders/Backhoes	1	8.00	108	0.37
Building Construction P2	Welders	3	8.00	45	0.45
Building Construction Crane P2	Cranes	1	6.00	399	0.29
Building Construction Crane P2	Forklifts	0	8.00	89	0.20
Building Construction Crane P2	Generator Sets	0	8.00	84	0.74
Building Construction Crane P2	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction Crane P2	Welders	0	8.00	46	0.45
Architectural Coating P2	Air Compressors	1	6.00	78	0.48
Asphalt Paving P2	Cement and Mortar Mixers	4	6.00	10	0.56
Asphalt Paving P2	Pavers	1	7.00	100	0.42
Asphalt Paving P2	Paving Equipment	2	6.00	104	0.36
Asphalt Paving P2	Rollers	1	7.00	95	0.38
Asphalt Paving P2	Tractors/Loaders/Backhoes	1	7.00	108	0.37
Trenching P3	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Building Construction P3	Cranes	0	7.00	226	0.29
Building Construction P3	Forklifts	2	6.00	145	0.20
Building Construction P3	Generator Sets	0	8.00	84	0.74

Building Construction P3	Tractors/Loaders/Backhoes	1	8.00	108	0.37
Building Construction P3	Welders	3	8.00	45	0.45
Building Construction Crane P3	Cranes	1	6.00	399	0.29
Building Construction Crane P3	Forklifts	0	8.00	89	0.20
Building Construction Crane P3	Generator Sets	0	8.00	84	0.74
Building Construction Crane P3	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction Crane P3	Welders	0	8.00	46	0.45
Demolition P4	Concrete/Industrial Saws	1	8.00	10	0.73
Demolition P4	Excavators	0	8.00	162	0.38
Demolition P4	Rubber Tired Dozers	1	8.00	357	0.40
Demolition P4	Tractors/Loaders/Backhoes	3	8.00	108	0.37
Architectural Coating P3	Air Compressors	1	6.00	78	0.48
Trenching P4	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Fine Grading P4	Excavators	2	8.00	157	0.38
Fine Grading P4	Graders	1	8.00	174	0.41
Fine Grading P4	Rubber Tired Dozers	1	8.00	357	0.40
Fine Grading P4	Scrapers	2	8.00	356	0.48
Fine Grading P4	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Asphalt Paving P4	Cement and Mortar Mixers	4	6.00	10	0.56
Asphalt Paving P4	Pavers	1	7.00	100	0.42
Asphalt Paving P4	Paving Equipment	2	6.00	104	0.36
Asphalt Paving P4	Rollers	1	7.00	95	0.38
Asphalt Paving P4	Tractors/Loaders/Backhoes	1	7.00	108	0.37
Architectural Coating P4	Air Compressors	1	6.00	78	0.48
Grading Pile Driver P2	Excavators	0	8.00	162	0.38
Grading Pile Driver P2	Graders	0	8.00	174	0.41
Grading Pile Driver P2	Rubber Tired Dozers	0	8.00	255	0.40
Grading Pile Driver P2	Scrapers	0	8.00	361	0.48
Grading Pile Driver P2	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition P1	5	13.00	4.00	220.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching P1	2	5.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading P1	8	20.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving P1	9	23.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating P1	1	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition P2	5	13.00	4.00	113.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading P2	8	20.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching P2	2	5.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction P2	6	515.00	147.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction Crane P2	1	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating P2	1	103.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving P2	9	23.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching P3	2	5.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction P3	6	35.00	14.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction Crane P3	1	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition P4	5	13.00	4.00	9.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating P3	1	7.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching P4	2	5.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading P4	8	20.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving P4	9	23.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating P4	1	11.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading Pile Driver P2	1	3.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0238	0.0000	0.0238	3.6100e-003	0.0000	3.6100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0302	0.3181	0.2387	2.4000e-004		0.0183	0.0183		0.0168	0.0168	0.0000	22.6130	22.6130	6.8200e-003	0.0000	22.7562
Total	**0.0302**	**0.3181**	**0.2387**	**2.4000e-004**	**0.0238**	**0.0183**	**0.0421**	**3.6100e-003**	**0.0168**	**0.0204**	**0.0000**	**22.6130**	**22.6130**	**6.8200e-003**	**0.0000**	**22.7562**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-003	0.0331	0.0392	8.0000e-005	1.8300e-003	4.1000e-004	2.2400e-003	5.0000e-004	3.7000e-004	8.8000e-004	0.0000	7.2928	7.2928	5.0000e-005	0.0000	7.2939
Vendor	5.5000e-004	4.2600e-003	7.2900e-003	1.0000e-005	2.7000e-004	6.0000e-005	3.3000e-004	8.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.8885	0.8885	1.0000e-005	0.0000	0.8886
Worker	4.9000e-004	7.6000e-004	7.2200e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1126	1.1126	6.0000e-005	0.0000	1.1139
Total	**3.8400e-003**	**0.0381**	**0.0538**	**1.0000e-004**	**3.3300e-003**	**4.8000e-004**	**3.8100e-003**	**9.1000e-004**	**4.4000e-004**	**1.3500e-003**	**0.0000**	**9.2939**	**9.2939**	**1.2000e-004**	**0.0000**	**9.2964**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0102	0.0000	0.0102	1.5400e-003	0.0000	1.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0302	0.3181	0.2387	2.4000e-004		0.0183	0.0183		0.0168	0.0168	0.0000	22.6129	22.6129	6.8200e-003	0.0000	22.7562
Total	**0.0302**	**0.3181**	**0.2387**	**2.4000e-004**	**0.0102**	**0.0183**	**0.0285**	**1.5400e-003**	**0.0168**	**0.0184**	**0.0000**	**22.6129**	**22.6129**	**6.8200e-003**	**0.0000**	**22.7562**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-003	0.0331	0.0392	8.0000e-005	1.7100e-003	4.1000e-004	2.1200e-003	4.7000e-004	3.7000e-004	8.5000e-004	0.0000	7.2928	7.2928	5.0000e-005	0.0000	7.2939
Vendor	5.5000e-004	4.2600e-003	7.2900e-003	1.0000e-005	2.5000e-004	6.0000e-005	3.1000e-004	7.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.8885	0.8885	1.0000e-005	0.0000	0.8886
Worker	4.9000e-004	7.6000e-004	7.2200e-003	1.0000e-005	1.1400e-003	1.0000e-005	1.1500e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1126	1.1126	6.0000e-005	0.0000	1.1139
Total	**3.8400e-003**	**0.0381**	**0.0538**	**1.0000e-004**	**3.1000e-003**	**4.8000e-004**	**3.5800e-003**	**8.4000e-004**	**4.4000e-004**	**1.2900e-003**	**0.0000**	**9.2939**	**9.2939**	**1.2000e-004**	**0.0000**	**9.2964**

3.3 Trenching P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6400e-003	0.0634	0.0470	6.0000e-005		4.8800e-003	4.8800e-003		4.4900e-003	4.4900e-003	0.0000	5.7213	5.7213	1.7300e-003	0.0000	5.7576
Total	**6.6400e-003**	**0.0634**	**0.0470**	**6.0000e-005**		**4.8800e-003**	**4.8800e-003**		**4.4900e-003**	**4.4900e-003**	**0.0000**	**5.7213**	**5.7213**	**1.7300e-003**	**0.0000**	**5.7576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2000e-004	4.0500e-003	6.9400e-003	1.0000e-005	2.6000e-004	6.0000e-005	3.1000e-004	7.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.8462	0.8462	1.0000e-005	0.0000	0.8463
Worker	1.8000e-004	2.8000e-004	2.6500e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4075	0.4075	2.0000e-005	0.0000	0.4080
Total	**7.0000e-004**	**4.3300e-003**	**9.5900e-003**	**2.0000e-005**	**7.1000e-004**	**6.0000e-005**	**7.7000e-004**	**1.9000e-004**	**5.0000e-005**	**2.5000e-004**	**0.0000**	**1.2537**	**1.2537**	**3.0000e-005**	**0.0000**	**1.2543**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6400e-003	0.0634	0.0470	6.0000e-005		4.8800e-003	4.8800e-003		4.4900e-003	4.4900e-003	0.0000	5.7213	5.7213	1.7300e-003	0.0000	5.7576
Total	**6.6400e-003**	**0.0634**	**0.0470**	**6.0000e-005**		**4.8800e-003**	**4.8800e-003**		**4.4900e-003**	**4.4900e-003**	**0.0000**	**5.7213**	**5.7213**	**1.7300e-003**	**0.0000**	**5.7576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2000e-004	4.0500e-003	6.9400e-003	1.0000e-005	2.4000e-004	6.0000e-005	3.0000e-004	7.0000e-005	5.0000e-005	1.2000e-004	0.0000	0.8462	0.8462	1.0000e-005	0.0000	0.8463
Worker	1.8000e-004	2.8000e-004	2.6500e-003	1.0000e-005	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4075	0.4075	2.0000e-005	0.0000	0.4080
Total	**7.0000e-004**	**4.3300e-003**	**9.5900e-003**	**2.0000e-005**	**6.6000e-004**	**6.0000e-005**	**7.2000e-004**	**1.8000e-004**	**5.0000e-005**	**2.3000e-004**	**0.0000**	**1.2537**	**1.2537**	**3.0000e-005**	**0.0000**	**1.2543**

3.4 Fine Grading P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1908	0.0000	0.1908	0.0791	0.0000	0.0791	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1517	1.7475	1.1592	1.4200e-003		0.0835	0.0835		0.0768	0.0768	0.0000	133.5366	133.5366	0.0403	0.0000	134.3824
Total	**0.1517**	**1.7475**	**1.1592**	**1.4200e-003**	**0.1908**	**0.0835**	**0.2743**	**0.0791**	**0.0768**	**0.1560**	**0.0000**	**133.5366**	**133.5366**	**0.0403**	**0.0000**	**134.3824**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1500e-003	8.9200e-003	0.0153	2.0000e-005	5.6000e-004	1.3000e-004	6.9000e-004	1.6000e-004	1.2000e-004	2.8000e-004	0.0000	1.8616	1.8616	1.0000e-005	0.0000	1.8619
Worker	1.5700e-003	2.4500e-003	0.0233	5.0000e-005	3.9800e-003	3.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.5864	3.5864	2.0000e-004	0.0000	3.5905
Total	**2.7200e-003**	**0.0114**	**0.0386**	**7.0000e-005**	**4.5400e-003**	**1.6000e-004**	**4.7000e-003**	**1.2200e-003**	**1.5000e-004**	**1.3700e-003**	**0.0000**	**5.4480**	**5.4480**	**2.1000e-004**	**0.0000**	**5.4524**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0816	0.0000	0.0816	0.0338	0.0000	0.0338	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1517	1.7475	1.1592	1.4200e-003		0.0835	0.0835		0.0768	0.0768	0.0000	133.5364	133.5364	0.0403	0.0000	134.3823
Total	**0.1517**	**1.7475**	**1.1592**	**1.4200e-003**	**0.0816**	**0.0835**	**0.1651**	**0.0338**	**0.0768**	**0.1107**	**0.0000**	**133.5364**	**133.5364**	**0.0403**	**0.0000**	**134.3823**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1500e-003	8.9200e-003	0.0153	2.0000e-005	5.3000e-004	1.3000e-004	6.5000e-004	1.5000e-004	1.2000e-004	2.7000e-004	0.0000	1.8616	1.8616	1.0000e-005	0.0000	1.8619
Worker	1.5700e-003	2.4500e-003	0.0233	5.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.5864	3.5864	2.0000e-004	0.0000	3.5905
Total	**2.7200e-003**	**0.0114**	**0.0386**	**7.0000e-005**	**4.2000e-003**	**1.6000e-004**	**4.3500e-003**	**1.1300e-003**	**1.5000e-004**	**1.2800e-003**	**0.0000**	**5.4480**	**5.4480**	**2.1000e-004**	**0.0000**	**5.4524**

3.5 Paving P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0211	0.1884	0.1284	1.8000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	15.9311	15.9311	4.4700e-003	0.0000	16.0250
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0325**	**0.1884**	**0.1284**	**1.8000e-004**		**0.0139**	**0.0139**		**0.0128**	**0.0128**	**0.0000**	**15.9311**	**15.9311**	**4.4700e-003**	**0.0000**	**16.0250**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	1.4100e-003	0.0134	3.0000e-005	2.2900e-003	2.0000e-005	2.3000e-003	6.1000e-004	2.0000e-005	6.3000e-004	0.0000	2.0622	2.0622	1.1000e-004	0.0000	2.0645
Total	**9.0000e-004**	**1.4100e-003**	**0.0134**	**3.0000e-005**	**2.2900e-003**	**2.0000e-005**	**2.3000e-003**	**6.1000e-004**	**2.0000e-005**	**6.3000e-004**	**0.0000**	**2.0622**	**2.0622**	**1.1000e-004**	**0.0000**	**2.0645**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0211	0.1884	0.1284	1.8000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	15.9311	15.9311	4.4700e-003	0.0000	16.0250
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0325**	**0.1884**	**0.1284**	**1.8000e-004**		**0.0139**	**0.0139**		**0.0128**	**0.0128**	**0.0000**	**15.9311**	**15.9311**	**4.4700e-003**	**0.0000**	**16.0250**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	1.4100e-003	0.0134	3.0000e-005	2.1100e-003	2.0000e-005	2.1300e-003	5.6000e-004	2.0000e-005	5.8000e-004	0.0000	2.0622	2.0622	1.1000e-004	0.0000	2.0645
Total	**9.0000e-004**	**1.4100e-003**	**0.0134**	**3.0000e-005**	**2.1100e-003**	**2.0000e-005**	**2.1300e-003**	**5.6000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**2.0622**	**2.0622**	**1.1000e-004**	**0.0000**	**2.0645**

3.6 Architectural Coating P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	**0.0468**	**0.0119**	**9.4200e-003**	**1.0000e-005**		**9.8000e-004**	**9.8000e-004**		**9.8000e-004**	**9.8000e-004**	**0.0000**	**1.2766**	**1.2766**	**1.5000e-004**	**0.0000**	**1.2798**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.8000e-004	2.6500e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4075	0.4075	2.0000e-005	0.0000	0.4080
Total	**1.8000e-004**	**2.8000e-004**	**2.6500e-003**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**4.6000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.4075**	**0.4075**	**2.0000e-005**	**0.0000**	**0.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	**0.0468**	**0.0119**	**9.4200e-003**	**1.0000e-005**		**9.8000e-004**	**9.8000e-004**		**9.8000e-004**	**9.8000e-004**	**0.0000**	**1.2766**	**1.2766**	**1.5000e-004**	**0.0000**	**1.2798**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.8000e-004	2.6500e-003	1.0000e-005	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4075	0.4075	2.0000e-005	0.0000	0.4080
Total	**1.8000e-004**	**2.8000e-004**	**2.6500e-003**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.4075**	**0.4075**	**2.0000e-005**	**0.0000**	**0.4080**

3.7 Demolition P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0122	0.0000	0.0122	1.8500e-003	0.0000	1.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3332	0.2501	2.5000e-004		0.0192	0.0192		0.0176	0.0176	0.0000	23.6898	23.6898	7.1500e-003	0.0000	23.8398
Total	**0.0316**	**0.3332**	**0.2501**	**2.5000e-004**	**0.0122**	**0.0192**	**0.0314**	**1.8500e-003**	**0.0176**	**0.0195**	**0.0000**	**23.6898**	**23.6898**	**7.1500e-003**	**0.0000**	**23.8398**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0170	0.0202	4.0000e-005	9.4000e-004	2.1000e-004	1.1500e-003	2.6000e-004	1.9000e-004	4.5000e-004	0.0000	3.7458	3.7458	3.0000e-005	0.0000	3.7464
Vendor	5.8000e-004	4.4600e-003	7.6300e-003	1.0000e-005	2.8000e-004	6.0000e-005	3.4000e-004	8.0000e-005	6.0000e-005	1.4000e-004	0.0000	0.9308	0.9308	1.0000e-005	0.0000	0.9310
Worker	5.1000e-004	8.0000e-004	7.5700e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1656	1.1656	6.0000e-005	0.0000	1.1669
Total	**2.5300e-003**	**0.0223**	**0.0354**	**7.0000e-005**	**2.5100e-003**	**2.8000e-004**	**2.7900e-003**	**6.8000e-004**	**2.6000e-004**	**9.4000e-004**	**0.0000**	**5.8422**	**5.8422**	**1.0000e-004**	**0.0000**	**5.8443**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2300e-003	0.0000	5.2300e-003	7.9000e-004	0.0000	7.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3332	0.2501	2.5000e-004		0.0192	0.0192		0.0176	0.0176	0.0000	23.6897	23.6897	7.1500e-003	0.0000	23.8398
Total	**0.0316**	**0.3332**	**0.2501**	**2.5000e-004**	**5.2300e-003**	**0.0192**	**0.0244**	**7.9000e-004**	**0.0176**	**0.0184**	**0.0000**	**23.6897**	**23.6897**	**7.1500e-003**	**0.0000**	**23.8398**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0170	0.0202	4.0000e-005	8.8000e-004	2.1000e-004	1.0900e-003	2.4000e-004	1.9000e-004	4.3000e-004	0.0000	3.7458	3.7458	3.0000e-005	0.0000	3.7464
Vendor	5.8000e-004	4.4600e-003	7.6300e-003	1.0000e-005	2.6000e-004	6.0000e-005	3.3000e-004	8.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.9308	0.9308	1.0000e-005	0.0000	0.9310
Worker	5.1000e-004	8.0000e-004	7.5700e-003	2.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1656	1.1656	6.0000e-005	0.0000	1.1669
Total	**2.5300e-003**	**0.0223**	**0.0354**	**7.0000e-005**	**2.3300e-003**	**2.8000e-004**	**2.6200e-003**	**6.4000e-004**	**2.6000e-004**	**8.9000e-004**	**0.0000**	**5.8422**	**5.8422**	**1.0000e-004**	**0.0000**	**5.8443**

3.8 Mass Grading P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2862	0.0000	0.2862	0.1187	0.0000	0.1187	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2275	2.6213	1.7388	2.1200e-003		0.1253	0.1253		0.1153	0.1153	0.0000	200.3048	200.3048	0.0604	0.0000	201.5736
Total	**0.2275**	**2.6213**	**1.7388**	**2.1200e-003**	**0.2862**	**0.1253**	**0.4115**	**0.1187**	**0.1153**	**0.2339**	**0.0000**	**200.3048**	**200.3048**	**0.0604**	**0.0000**	**201.5736**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7300e-003	0.0134	0.0229	3.0000e-005	8.4000e-004	1.9000e-004	1.0300e-003	2.4000e-004	1.8000e-004	4.2000e-004	0.0000	2.7924	2.7924	2.0000e-005	0.0000	2.7929
Worker	2.3600e-003	3.6700e-003	0.0349	7.0000e-005	5.9600e-003	5.0000e-005	6.0100e-003	1.5900e-003	4.0000e-005	1.6300e-003	0.0000	5.3796	5.3796	2.9000e-004	0.0000	5.3858
Total	**4.0900e-003**	**0.0171**	**0.0578**	**1.0000e-004**	**6.8000e-003**	**2.4000e-004**	**7.0400e-003**	**1.8300e-003**	**2.2000e-004**	**2.0500e-003**	**0.0000**	**8.1720**	**8.1720**	**3.1000e-004**	**0.0000**	**8.1786**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1224	0.0000	0.1224	0.0507	0.0000	0.0507	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2275	2.6213	1.7388	2.1200e-003		0.1253	0.1253		0.1153	0.1153	0.0000	200.3046	200.3046	0.0604	0.0000	201.5734
Total	**0.2275**	**2.6213**	**1.7388**	**2.1200e-003**	**0.1224**	**0.1253**	**0.2476**	**0.0507**	**0.1153**	**0.1660**	**0.0000**	**200.3046**	**200.3046**	**0.0604**	**0.0000**	**201.5734**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7300e-003	0.0134	0.0229	3.0000e-005	7.9000e-004	1.9000e-004	9.8000e-004	2.3000e-004	1.8000e-004	4.0000e-004	0.0000	2.7924	2.7924	2.0000e-005	0.0000	2.7929
Worker	2.3600e-003	3.6700e-003	0.0349	7.0000e-005	5.5000e-003	5.0000e-005	5.5500e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3796	5.3796	2.9000e-004	0.0000	5.3858
Total	**4.0900e-003**	**0.0171**	**0.0578**	**1.0000e-004**	**6.2900e-003**	**2.4000e-004**	**6.5300e-003**	**1.7000e-003**	**2.2000e-004**	**1.9200e-003**	**0.0000**	**8.1720**	**8.1720**	**3.1000e-004**	**0.0000**	**8.1786**

3.9 Trenching P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9700e-003	0.0666	0.0494	6.0000e-005		5.1300e-003	5.1300e-003		4.7200e-003	4.7200e-003	0.0000	6.0074	6.0074	1.8100e-003	0.0000	6.0455
Total	**6.9700e-003**	**0.0666**	**0.0494**	**6.0000e-005**		**5.1300e-003**	**5.1300e-003**		**4.7200e-003**	**4.7200e-003**	**0.0000**	**6.0074**	**6.0074**	**1.8100e-003**	**0.0000**	**6.0455**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	4.2600e-003	7.2900e-003	1.0000e-005	2.7000e-004	6.0000e-005	3.3000e-004	8.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.8885	0.8885	1.0000e-005	0.0000	0.8886
Worker	1.9000e-004	2.9000e-004	2.7800e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4279	0.4279	2.0000e-005	0.0000	0.4284
Total	**7.4000e-004**	**4.5500e-003**	**0.0101**	**2.0000e-005**	**7.4000e-004**	**6.0000e-005**	**8.1000e-004**	**2.1000e-004**	**6.0000e-005**	**2.6000e-004**	**0.0000**	**1.3164**	**1.3164**	**3.0000e-005**	**0.0000**	**1.3171**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9700e-003	0.0666	0.0494	6.0000e-005		5.1300e-003	5.1300e-003		4.7200e-003	4.7200e-003	0.0000	6.0074	6.0074	1.8100e-003	0.0000	6.0455
Total	**6.9700e-003**	**0.0666**	**0.0494**	**6.0000e-005**		**5.1300e-003**	**5.1300e-003**		**4.7200e-003**	**4.7200e-003**	**0.0000**	**6.0074**	**6.0074**	**1.8100e-003**	**0.0000**	**6.0455**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	4.2600e-003	7.2900e-003	1.0000e-005	2.5000e-004	6.0000e-005	3.1000e-004	7.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.8885	0.8885	1.0000e-005	0.0000	0.8886
Worker	1.9000e-004	2.9000e-004	2.7800e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4279	0.4279	2.0000e-005	0.0000	0.4284
Total	**7.4000e-004**	**4.5500e-003**	**0.0101**	**2.0000e-005**	**6.9000e-004**	**6.0000e-005**	**7.5000e-004**	**1.9000e-004**	**6.0000e-005**	**2.5000e-004**	**0.0000**	**1.3164**	**1.3164**	**3.0000e-005**	**0.0000**	**1.3171**

3.10 Grading Pile Driver P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0168	0.2229	0.1245	2.7000e-004		8.2100e-003	8.2100e-003		7.5500e-003	7.5500e-003	0.0000	25.2011	25.2011	7.6000e-003	0.0000	25.3607
Total	**0.0168**	**0.2229**	**0.1245**	**2.7000e-004**	**0.0000**	**8.2100e-003**	**8.2100e-003**	**0.0000**	**7.5500e-003**	**7.5500e-003**	**0.0000**	**25.2011**	**25.2011**	**7.6000e-003**	**0.0000**	**25.3607**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	3.8000e-004	3.5700e-003	1.0000e-005	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5502	0.5502	3.0000e-005	0.0000	0.5508
Total	**2.4000e-004**	**3.8000e-004**	**3.5700e-003**	**1.0000e-005**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.7000e-004**	**0.0000**	**0.5502**	**0.5502**	**3.0000e-005**	**0.0000**	**0.5508**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0168	0.2229	0.1245	2.7000e-004		8.2100e-003	8.2100e-003		7.5500e-003	7.5500e-003	0.0000	25.2011	25.2011	7.6000e-003	0.0000	25.3607
Total	**0.0168**	**0.2229**	**0.1245**	**2.7000e-004**	**0.0000**	**8.2100e-003**	**8.2100e-003**	**0.0000**	**7.5500e-003**	**7.5500e-003**	**0.0000**	**25.2011**	**25.2011**	**7.6000e-003**	**0.0000**	**25.3607**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	3.8000e-004	3.5700e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.5502	0.5502	3.0000e-005	0.0000	0.5508
Total	**2.4000e-004**	**3.8000e-004**	**3.5700e-003**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**5.7000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5502**	**0.5502**	**3.0000e-005**	**0.0000**	**0.5508**

3.11 Building Construction P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0792	0.4312	0.3618	4.8000e-004		0.0304	0.0304		0.0290	0.0290	0.0000	40.0282	40.0282	0.0110	0.0000	40.2596
Total	**0.0792**	**0.4312**	**0.3618**	**4.8000e-004**		**0.0304**	**0.0304**		**0.0290**	**0.0290**	**0.0000**	**40.0282**	**40.0282**	**0.0110**	**0.0000**	**40.2596**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0625	0.4841	0.8288	1.1200e-003	0.0305	6.9100e-003	0.0374	8.7400e-003	6.3500e-003	0.0151	0.0000	101.0664	101.0664	8.0000e-004	0.0000	101.0833
Worker	0.0599	0.0932	0.8858	1.7700e-003	0.1513	1.2200e-003	0.1525	0.0403	1.1200e-003	0.0414	0.0000	136.4254	136.4254	7.4600e-003	0.0000	136.5821
Total	**0.1224**	**0.5773**	**1.7146**	**2.8900e-003**	**0.1818**	**8.1300e-003**	**0.1899**	**0.0490**	**7.4700e-003**	**0.0565**	**0.0000**	**237.4918**	**237.4918**	**8.2600e-003**	**0.0000**	**237.6654**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0792	0.4312	0.3618	4.8000e-004		0.0304	0.0304		0.0290	0.0290	0.0000	40.0282	40.0282	0.0110	0.0000	40.2596
Total	**0.0792**	**0.4312**	**0.3618**	**4.8000e-004**		**0.0304**	**0.0304**		**0.0290**	**0.0290**	**0.0000**	**40.0282**	**40.0282**	**0.0110**	**0.0000**	**40.2596**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0625	0.4841	0.8288	1.1200e-003	0.0285	6.9100e-003	0.0354	8.2600e-003	6.3500e-003	0.0146	0.0000	101.0664	101.0664	8.0000e-004	0.0000	101.0833
Worker	0.0599	0.0932	0.8858	1.7700e-003	0.1395	1.2200e-003	0.1407	0.0374	1.1200e-003	0.0385	0.0000	136.4254	136.4254	7.4600e-003	0.0000	136.5821
Total	**0.1224**	**0.5773**	**1.7146**	**2.8900e-003**	**0.1680**	**8.1300e-003**	**0.1762**	**0.0456**	**7.4700e-003**	**0.0531**	**0.0000**	**237.4918**	**237.4918**	**8.2600e-003**	**0.0000**	**237.6654**

3.11 Building Construction P2 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2876	1.6395	1.4205	1.9100e-003		0.1112	0.1112		0.1062	0.1062	0.0000	158.6903	158.6903	0.0422	0.0000	159.5757
Total	**0.2876**	**1.6395**	**1.4205**	**1.9100e-003**		**0.1112**	**0.1112**		**0.1062**	**0.1062**	**0.0000**	**158.6903**	**158.6903**	**0.0422**	**0.0000**	**159.5757**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2342	1.7410	3.1648	4.4700e-003	0.1221	0.0240	0.1460	0.0350	0.0220	0.0570	0.0000	398.0818	398.0818	3.0600e-003	0.0000	398.1461
Worker	0.2125	0.3348	3.1611	7.0800e-003	0.6051	4.6500e-003	0.6097	0.1610	4.2800e-003	0.1653	0.0000	525.4818	525.4818	0.0273	0.0000	526.0560
Total	**0.4467**	**2.0757**	**6.3259**	**0.0116**	**0.7271**	**0.0286**	**0.7557**	**0.1960**	**0.0263**	**0.2223**	**0.0000**	**923.5636**	**923.5636**	**0.0304**	**0.0000**	**924.2021**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2876	1.6395	1.4205	1.9100e-003		0.1112	0.1112		0.1062	0.1062	0.0000	158.6901	158.6901	0.0422	0.0000	159.5755
Total	**0.2876**	**1.6395**	**1.4205**	**1.9100e-003**		**0.1112**	**0.1112**		**0.1062**	**0.1062**	**0.0000**	**158.6901**	**158.6901**	**0.0422**	**0.0000**	**159.5755**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2342	1.7410	3.1648	4.4700e-003	0.1142	0.0240	0.1381	0.0331	0.0220	0.0551	0.0000	398.0818	398.0818	3.0600e-003	0.0000	398.1461
Worker	0.2125	0.3348	3.1611	7.0800e-003	0.5580	4.6500e-003	0.5627	0.1495	4.2800e-003	0.1537	0.0000	525.4818	525.4818	0.0273	0.0000	526.0560
Total	**0.4467**	**2.0757**	**6.3259**	**0.0116**	**0.6722**	**0.0286**	**0.7008**	**0.1825**	**0.0263**	**0.2088**	**0.0000**	**923.5636**	**923.5636**	**0.0304**	**0.0000**	**924.2021**

3.11 Building Construction P2 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2305	1.3515	1.2741	1.7600e-003		0.0871	0.0871		0.0833	0.0833	0.0000	145.1609	145.1609	0.0373	0.0000	145.9435
Total	**0.2305**	**1.3515**	**1.2741**	**1.7600e-003**		**0.0871**	**0.0871**		**0.0833**	**0.0833**	**0.0000**	**145.1609**	**145.1609**	**0.0373**	**0.0000**	**145.9435**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2014	1.4595	2.7789	4.1200e-003	0.1127	0.0205	0.1332	0.0323	0.0189	0.0511	0.0000	361.3084	361.3084	2.7800e-003	0.0000	361.3667
Worker	0.1750	0.2791	2.6167	6.5300e-003	0.5585	4.1400e-003	0.5626	0.1486	3.8300e-003	0.1524	0.0000	467.4466	467.4466	0.0233	0.0000	467.9354
Total	**0.3764**	**1.7386**	**5.3956**	**0.0107**	**0.6712**	**0.0246**	**0.6958**	**0.1809**	**0.0227**	**0.2036**	**0.0000**	**828.7549**	**828.7549**	**0.0261**	**0.0000**	**829.3021**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2305	1.3515	1.2741	1.7600e-003		0.0871	0.0871		0.0833	0.0833	0.0000	145.1607	145.1607	0.0373	0.0000	145.9433
Total	**0.2305**	**1.3515**	**1.2741**	**1.7600e-003**		**0.0871**	**0.0871**		**0.0833**	**0.0833**	**0.0000**	**145.1607**	**145.1607**	**0.0373**	**0.0000**	**145.9433**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2014	1.4595	2.7789	4.1200e-003	0.1054	0.0205	0.1259	0.0305	0.0189	0.0494	0.0000	361.3084	361.3084	2.7800e-003	0.0000	361.3667
Worker	0.1750	0.2791	2.6167	6.5300e-003	0.5151	4.1400e-003	0.5192	0.1380	3.8300e-003	0.1418	0.0000	467.4466	467.4466	0.0233	0.0000	467.9354
Total	**0.3764**	**1.7386**	**5.3956**	**0.0107**	**0.6205**	**0.0246**	**0.6451**	**0.1685**	**0.0227**	**0.1911**	**0.0000**	**828.7549**	**828.7549**	**0.0261**	**0.0000**	**829.3021**

3.12 Building Construction Crane P2 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0408	0.5205	0.3529	4.8000e-004		0.0211	0.0211		0.0194	0.0194	0.0000	44.9860	44.9860	0.0138	0.0000	45.2755
Total	**0.0408**	**0.5205**	**0.3529**	**4.8000e-004**		**0.0211**	**0.0211**		**0.0194**	**0.0194**	**0.0000**	**44.9860**	**44.9860**	**0.0138**	**0.0000**	**45.2755**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0408	0.5205	0.3529	4.8000e-004		0.0211	0.0211		0.0194	0.0194	0.0000	44.9860	44.9860	0.0138	0.0000	45.2754
Total	**0.0408**	**0.5205**	**0.3529**	**4.8000e-004**		**0.0211**	**0.0211**		**0.0194**	**0.0194**	**0.0000**	**44.9860**	**44.9860**	**0.0138**	**0.0000**	**45.2754**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.13 Architectural Coating P2 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563
Total	**2.6262**	**0.0451**	**0.0417**	**7.0000e-005**		**3.3900e-003**	**3.3900e-003**		**3.3900e-003**	**3.3900e-003**	**0.0000**	**5.7448**	**5.7448**	**5.5000e-004**	**0.0000**	**5.7563**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5600e-003	0.0105	0.0981	2.5000e-004	0.0209	1.6000e-004	0.0211	5.5700e-003	1.4000e-004	5.7200e-003	0.0000	17.5293	17.5293	8.7000e-004	0.0000	17.5476
Total	**6.5600e-003**	**0.0105**	**0.0981**	**2.5000e-004**	**0.0209**	**1.6000e-004**	**0.0211**	**5.5700e-003**	**1.4000e-004**	**5.7200e-003**	**0.0000**	**17.5293**	**17.5293**	**8.7000e-004**	**0.0000**	**17.5476**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563
Total	**2.6262**	**0.0451**	**0.0417**	**7.0000e-005**		**3.3900e-003**	**3.3900e-003**		**3.3900e-003**	**3.3900e-003**	**0.0000**	**5.7448**	**5.7448**	**5.5000e-004**	**0.0000**	**5.7563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5600e-003	0.0105	0.0981	2.5000e-004	0.0193	1.6000e-004	0.0195	5.1700e-003	1.4000e-004	5.3200e-003	0.0000	17.5293	17.5293	8.7000e-004	0.0000	17.5476
Total	**6.5600e-003**	**0.0105**	**0.0981**	**2.5000e-004**	**0.0193**	**1.6000e-004**	**0.0195**	**5.1700e-003**	**1.4000e-004**	**5.3200e-003**	**0.0000**	**17.5293**	**17.5293**	**8.7000e-004**	**0.0000**	**17.5476**

3.14 Asphalt Paving P2 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.3300e-003	0.0763	0.0619	9.0000e-005		5.2300e-003	5.2300e-003		4.8300e-003	4.8300e-003	0.0000	7.7396	7.7396	2.2400e-003	0.0000	7.7866
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0197**	**0.0763**	**0.0619**	**9.0000e-005**		**5.2300e-003**	**5.2300e-003**		**4.8300e-003**	**4.8300e-003**	**0.0000**	**7.7396**	**7.7396**	**2.2400e-003**	**0.0000**	**7.7866**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	5.7000e-004	5.3600e-003	1.0000e-005	1.1400e-003	1.0000e-005	1.1500e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	0.9568	0.9568	5.0000e-005	0.0000	0.9578
Total	**3.6000e-004**	**5.7000e-004**	**5.3600e-003**	**1.0000e-005**	**1.1400e-003**	**1.0000e-005**	**1.1500e-003**	**3.0000e-004**	**1.0000e-005**	**3.1000e-004**	**0.0000**	**0.9568**	**0.9568**	**5.0000e-005**	**0.0000**	**0.9578**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.3300e-003	0.0763	0.0619	9.0000e-005		5.2300e-003	5.2300e-003		4.8300e-003	4.8300e-003	0.0000	7.7396	7.7396	2.2400e-003	0.0000	7.7866
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0197**	**0.0763**	**0.0619**	**9.0000e-005**		**5.2300e-003**	**5.2300e-003**		**4.8300e-003**	**4.8300e-003**	**0.0000**	**7.7396**	**7.7396**	**2.2400e-003**	**0.0000**	**7.7866**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	5.7000e-004	5.3600e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9568	0.9568	5.0000e-005	0.0000	0.9578
Total	**3.6000e-004**	**5.7000e-004**	**5.3600e-003**	**1.0000e-005**	**1.0500e-003**	**1.0000e-005**	**1.0600e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.9568**	**0.9568**	**5.0000e-005**	**0.0000**	**0.9578**

3.15 Trenching P3 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4400e-003	0.0538	0.0478	6.0000e-005		3.8100e-003	3.8100e-003		3.5100e-003	3.5100e-003	0.0000	5.8051	5.8051	1.8100e-003	0.0000	5.8430
Total	**5.4400e-003**	**0.0538**	**0.0478**	**6.0000e-005**		**3.8100e-003**	**3.8100e-003**		**3.5100e-003**	**3.5100e-003**	**0.0000**	**5.8051**	**5.8051**	**1.8100e-003**	**0.0000**	**5.8430**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	3.4800e-003	6.6200e-003	1.0000e-005	2.7000e-004	5.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.8603	0.8603	1.0000e-005	0.0000	0.8604
Worker	1.5000e-004	2.4000e-004	2.2200e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3971	0.3971	2.0000e-005	0.0000	0.3975
Total	**6.3000e-004**	**3.7200e-003**	**8.8400e-003**	**2.0000e-005**	**7.4000e-004**	**5.0000e-005**	**8.0000e-004**	**2.1000e-004**	**4.0000e-005**	**2.5000e-004**	**0.0000**	**1.2574**	**1.2574**	**3.0000e-005**	**0.0000**	**1.2579**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4400e-003	0.0538	0.0478	6.0000e-005		3.8100e-003	3.8100e-003		3.5100e-003	3.5100e-003	0.0000	5.8051	5.8051	1.8100e-003	0.0000	5.8430
Total	**5.4400e-003**	**0.0538**	**0.0478**	**6.0000e-005**		**3.8100e-003**	**3.8100e-003**		**3.5100e-003**	**3.5100e-003**	**0.0000**	**5.8051**	**5.8051**	**1.8100e-003**	**0.0000**	**5.8430**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	3.4800e-003	6.6200e-003	1.0000e-005	2.5000e-004	5.0000e-005	3.0000e-004	7.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.8603	0.8603	1.0000e-005	0.0000	0.8604
Worker	1.5000e-004	2.4000e-004	2.2200e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3971	0.3971	2.0000e-005	0.0000	0.3975
Total	**6.3000e-004**	**3.7200e-003**	**8.8400e-003**	**2.0000e-005**	**6.9000e-004**	**5.0000e-005**	**7.4000e-004**	**1.9000e-004**	**4.0000e-005**	**2.4000e-004**	**0.0000**	**1.2574**	**1.2574**	**3.0000e-005**	**0.0000**	**1.2579**

3.16 Building Construction P3 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0202	0.1183	0.1115	1.5000e-004		7.6200e-003	7.6200e-003		7.2900e-003	7.2900e-003	0.0000	12.7016	12.7016	3.2600e-003	0.0000	12.7701
Total	**0.0202**	**0.1183**	**0.1115**	**1.5000e-004**		**7.6200e-003**	**7.6200e-003**		**7.2900e-003**	**7.2900e-003**	**0.0000**	**12.7016**	**12.7016**	**3.2600e-003**	**0.0000**	**12.7701**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6800e-003	0.0122	0.0232	3.0000e-005	9.4000e-004	1.7000e-004	1.1100e-003	2.7000e-004	1.6000e-004	4.3000e-004	0.0000	3.0109	3.0109	2.0000e-005	0.0000	3.0114
Worker	1.0400e-003	1.6600e-003	0.0156	4.0000e-005	3.3200e-003	2.0000e-005	3.3500e-003	8.8000e-004	2.0000e-005	9.1000e-004	0.0000	2.7797	2.7797	1.4000e-004	0.0000	2.7826
Total	**2.7200e-003**	**0.0138**	**0.0387**	**7.0000e-005**	**4.2600e-003**	**1.9000e-004**	**4.4600e-003**	**1.1500e-003**	**1.8000e-004**	**1.3400e-003**	**0.0000**	**5.7906**	**5.7906**	**1.6000e-004**	**0.0000**	**5.7940**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0202	0.1183	0.1115	1.5000e-004		7.6200e-003	7.6200e-003		7.2900e-003	7.2900e-003	0.0000	12.7016	12.7016	3.2600e-003	0.0000	12.7700
Total	**0.0202**	**0.1183**	**0.1115**	**1.5000e-004**		**7.6200e-003**	**7.6200e-003**		**7.2900e-003**	**7.2900e-003**	**0.0000**	**12.7016**	**12.7016**	**3.2600e-003**	**0.0000**	**12.7700**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6800e-003	0.0122	0.0232	3.0000e-005	8.8000e-004	1.7000e-004	1.0500e-003	2.5000e-004	1.6000e-004	4.1000e-004	0.0000	3.0109	3.0109	2.0000e-005	0.0000	3.0114
Worker	1.0400e-003	1.6600e-003	0.0156	4.0000e-005	3.0600e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7797	2.7797	1.4000e-004	0.0000	2.7826
Total	**2.7200e-003**	**0.0138**	**0.0387**	**7.0000e-005**	**3.9400e-003**	**1.9000e-004**	**4.1400e-003**	**1.0700e-003**	**1.8000e-004**	**1.2500e-003**	**0.0000**	**5.7906**	**5.7906**	**1.6000e-004**	**0.0000**	**5.7940**

3.16 Building Construction P3 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2196	1.3486	1.3559	1.9200e-003		0.0819	0.0819		0.0784	0.0784	0.0000	156.4578	156.4578	0.0387	0.0000	157.2715
Total	**0.2196**	**1.3486**	**1.3559**	**1.9200e-003**		**0.0819**	**0.0819**		**0.0784**	**0.0784**	**0.0000**	**156.4578**	**156.4578**	**0.0387**	**0.0000**	**157.2715**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0191	0.1381	0.2698	4.3000e-004	0.0117	1.9700e-003	0.0136	3.3400e-003	1.8100e-003	5.1500e-003	0.0000	36.7637	36.7637	2.8000e-004	0.0000	36.7696
Worker	0.0119	0.0189	0.1767	4.8000e-004	0.0413	3.0000e-004	0.0416	0.0110	2.8000e-004	0.0113	0.0000	33.3225	33.3225	1.6100e-003	0.0000	33.3563
Total	**0.0309**	**0.1569**	**0.4465**	**9.1000e-004**	**0.0530**	**2.2700e-003**	**0.0552**	**0.0143**	**2.0900e-003**	**0.0164**	**0.0000**	**70.0862**	**70.0862**	**1.8900e-003**	**0.0000**	**70.1259**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2196	1.3486	1.3559	1.9200e-003		0.0819	0.0819		0.0784	0.0784	0.0000	156.4577	156.4577	0.0387	0.0000	157.2713
Total	**0.2196**	**1.3486**	**1.3559**	**1.9200e-003**		**0.0819**	**0.0819**		**0.0784**	**0.0784**	**0.0000**	**156.4577**	**156.4577**	**0.0387**	**0.0000**	**157.2713**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0191	0.1381	0.2698	4.3000e-004	0.0109	1.9700e-003	0.0129	3.1600e-003	1.8100e-003	4.9700e-003	0.0000	36.7637	36.7637	2.8000e-004	0.0000	36.7696
Worker	0.0119	0.0189	0.1767	4.8000e-004	0.0381	3.0000e-004	0.0384	0.0102	2.8000e-004	0.0105	0.0000	33.3225	33.3225	1.6100e-003	0.0000	33.3563
Total	**0.0309**	**0.1569**	**0.4465**	**9.1000e-004**	**0.0490**	**2.2700e-003**	**0.0513**	**0.0134**	**2.0900e-003**	**0.0154**	**0.0000**	**70.0862**	**70.0862**	**1.8900e-003**	**0.0000**	**70.1259**

3.16 Building Construction P3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1145	0.7269	0.7816	1.1200e-003		0.0414	0.0414		0.0396	0.0396	0.0000	90.6347	90.6347	0.0219	0.0000	91.0944
Total	**0.1145**	**0.7269**	**0.7816**	**1.1200e-003**		**0.0414**	**0.0414**		**0.0396**	**0.0396**	**0.0000**	**90.6347**	**90.6347**	**0.0219**	**0.0000**	**91.0944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9700e-003	0.0694	0.1478	2.5000e-004	6.8400e-003	1.0300e-003	7.8700e-003	1.9600e-003	9.5000e-004	2.9100e-003	0.0000	21.0528	21.0528	1.6000e-004	0.0000	21.0562
Worker	6.4700e-003	0.0102	0.0956	2.8000e-004	0.0242	1.7000e-004	0.0244	6.4400e-003	1.6000e-004	6.6000e-003	0.0000	18.7501	18.7501	8.9000e-004	0.0000	18.7688
Total	**0.0164**	**0.0796**	**0.2434**	**5.3000e-004**	**0.0310**	**1.2000e-003**	**0.0322**	**8.4000e-003**	**1.1100e-003**	**9.5100e-003**	**0.0000**	**39.8029**	**39.8029**	**1.0500e-003**	**0.0000**	**39.8249**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1145	0.7269	0.7816	1.1200e-003		0.0414	0.0414		0.0396	0.0396	0.0000	90.6346	90.6346	0.0219	0.0000	91.0943
Total	**0.1145**	**0.7269**	**0.7816**	**1.1200e-003**		**0.0414**	**0.0414**		**0.0396**	**0.0396**	**0.0000**	**90.6346**	**90.6346**	**0.0219**	**0.0000**	**91.0943**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9700e-003	0.0694	0.1478	2.5000e-004	6.4000e-003	1.0300e-003	7.4300e-003	1.8500e-003	9.5000e-004	2.8000e-003	0.0000	21.0528	21.0528	1.6000e-004	0.0000	21.0562
Worker	6.4700e-003	0.0102	0.0956	2.8000e-004	0.0223	1.7000e-004	0.0225	5.9800e-003	1.6000e-004	6.1400e-003	0.0000	18.7501	18.7501	8.9000e-004	0.0000	18.7688
Total	**0.0164**	**0.0796**	**0.2434**	**5.3000e-004**	**0.0287**	**1.2000e-003**	**0.0299**	**7.8300e-003**	**1.1100e-003**	**8.9400e-003**	**0.0000**	**39.8029**	**39.8029**	**1.0500e-003**	**0.0000**	**39.8249**

3.17 Building Construction Crane P3 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9400e-003	0.0745	0.0512	8.0000e-005		3.0100e-003	3.0100e-003		2.7600e-003	2.7600e-003	0.0000	7.1569	7.1569	2.2300e-003	0.0000	7.2037
Total	**5.9400e-003**	**0.0745**	**0.0512**	**8.0000e-005**		**3.0100e-003**	**3.0100e-003**		**2.7600e-003**	**2.7600e-003**	**0.0000**	**7.1569**	**7.1569**	**2.2300e-003**	**0.0000**	**7.2037**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9400e-003	0.0745	0.0512	8.0000e-005		3.0000e-003	3.0000e-003		2.7600e-003	2.7600e-003	0.0000	7.1569	7.1569	2.2300e-003	0.0000	7.2037
Total	**5.9400e-003**	**0.0745**	**0.0512**	**8.0000e-005**		**3.0000e-003**	**3.0000e-003**		**2.7600e-003**	**2.7600e-003**	**0.0000**	**7.1569**	**7.1569**	**2.2300e-003**	**0.0000**	**7.2037**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.17 Building Construction Crane P3 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0115	0.1414	0.0977	1.6000e-004		5.6900e-003	5.6900e-003		5.2400e-003	5.2400e-003	0.0000	14.4233	14.4233	4.5600e-003	0.0000	14.5192
Total	**0.0115**	**0.1414**	**0.0977**	**1.6000e-004**		**5.6900e-003**	**5.6900e-003**		**5.2400e-003**	**5.2400e-003**	**0.0000**	**14.4233**	**14.4233**	**4.5600e-003**	**0.0000**	**14.5192**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0115	0.1414	0.0977	1.6000e-004		5.6900e-003	5.6900e-003		5.2400e-003	5.2400e-003	0.0000	14.4233	14.4233	4.5600e-003	0.0000	14.5191
Total	**0.0115**	**0.1414**	**0.0977**	**1.6000e-004**		**5.6900e-003**	**5.6900e-003**		**5.2400e-003**	**5.2400e-003**	**0.0000**	**14.4233**	**14.4233**	**4.5600e-003**	**0.0000**	**14.5191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.18 Demolition P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0235	0.2442	0.2153	2.6000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	23.0866	23.0866	7.4700e-003	0.0000	23.2434
Total	**0.0235**	**0.2442**	**0.2153**	**2.6000e-004**	**9.3000e-004**	**0.0126**	**0.0136**	**1.4000e-004**	**0.0116**	**0.0118**	**0.0000**	**23.0866**	**23.0866**	**7.4700e-003**	**0.0000**	**23.2434**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	8.9000e-004	1.3200e-003	0.0000	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2777	0.2777	0.0000	0.0000	0.2777
Vendor	4.3000e-004	2.9800e-003	6.3500e-003	1.0000e-005	2.9000e-004	4.0000e-005	3.4000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.9042	0.9042	1.0000e-005	0.0000	0.9044
Worker	3.6000e-004	5.7000e-004	5.3400e-003	2.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0469	1.0469	5.0000e-005	0.0000	1.0480
Total	**8.8000e-004**	**4.4400e-003**	**0.0130**	**3.0000e-005**	**1.7200e-003**	**6.0000e-005**	**1.7900e-003**	**4.6000e-004**	**6.0000e-005**	**5.2000e-004**	**0.0000**	**2.2288**	**2.2288**	**6.0000e-005**	**0.0000**	**2.2300**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0235	0.2442	0.2153	2.6000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	23.0866	23.0866	7.4700e-003	0.0000	23.2434
Total	**0.0235**	**0.2442**	**0.2153**	**2.6000e-004**	**4.0000e-004**	**0.0126**	**0.0130**	**6.0000e-005**	**0.0116**	**0.0117**	**0.0000**	**23.0866**	**23.0866**	**7.4700e-003**	**0.0000**	**23.2434**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	8.9000e-004	1.3200e-003	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2777	0.2777	0.0000	0.0000	0.2777
Vendor	4.3000e-004	2.9800e-003	6.3500e-003	1.0000e-005	2.7000e-004	4.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.9042	0.9042	1.0000e-005	0.0000	0.9044
Worker	3.6000e-004	5.7000e-004	5.3400e-003	2.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0469	1.0469	5.0000e-005	0.0000	1.0480
Total	**8.8000e-004**	**4.4400e-003**	**0.0130**	**3.0000e-005**	**1.5900e-003**	**6.0000e-005**	**1.6600e-003**	**4.3000e-004**	**6.0000e-005**	**4.9000e-004**	**0.0000**	**2.2288**	**2.2288**	**6.0000e-005**	**0.0000**	**2.2300**

3.19 Architectural Coating P3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3200					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7900e-003	0.0194	0.0211	3.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	2.9362	2.9362	2.3000e-004	0.0000	2.9410
Total	**0.3228**	**0.0194**	**0.0211**	**3.0000e-005**		**1.2800e-003**	**1.2800e-003**		**1.2800e-003**	**1.2800e-003**	**0.0000**	**2.9362**	**2.9362**	**2.3000e-004**	**0.0000**	**2.9410**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	3.1000e-004	2.8700e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5637	0.5637	3.0000e-005	0.0000	0.5643
Total	**1.9000e-004**	**3.1000e-004**	**2.8700e-003**	**1.0000e-005**	**7.3000e-004**	**1.0000e-005**	**7.3000e-004**	**1.9000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.5637**	**0.5637**	**3.0000e-005**	**0.0000**	**0.5643**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3200					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7900e-003	0.0194	0.0211	3.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	2.9362	2.9362	2.3000e-004	0.0000	2.9410
Total	**0.3228**	**0.0194**	**0.0211**	**3.0000e-005**		**1.2800e-003**	**1.2800e-003**		**1.2800e-003**	**1.2800e-003**	**0.0000**	**2.9362**	**2.9362**	**2.3000e-004**	**0.0000**	**2.9410**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	3.1000e-004	2.8700e-003	1.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5637	0.5637	3.0000e-005	0.0000	0.5643
Total	**1.9000e-004**	**3.1000e-004**	**2.8700e-003**	**1.0000e-005**	**6.7000e-004**	**1.0000e-005**	**6.8000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5637**	**0.5637**	**3.0000e-005**	**0.0000**	**0.5643**

3.20 Trenching P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2900e-003	0.0431	0.0466	6.0000e-005		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	5.5822	5.5822	1.8100e-003	0.0000	5.6201
Total	**4.2900e-003**	**0.0431**	**0.0466**	**6.0000e-005**		**2.7200e-003**	**2.7200e-003**		**2.5100e-003**	**2.5100e-003**	**0.0000**	**5.5822**	**5.5822**	**1.8100e-003**	**0.0000**	**5.6201**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	2.7200e-003	5.8000e-003	1.0000e-005	2.7000e-004	4.0000e-005	3.1000e-004	8.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.8256	0.8256	1.0000e-005	0.0000	0.8257
Worker	1.3000e-004	2.0000e-004	1.8700e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3677	0.3677	2.0000e-005	0.0000	0.3680
Total	**5.2000e-004**	**2.9200e-003**	**7.6700e-003**	**2.0000e-005**	**7.4000e-004**	**4.0000e-005**	**7.9000e-004**	**2.1000e-004**	**4.0000e-005**	**2.4000e-004**	**0.0000**	**1.1933**	**1.1933**	**3.0000e-005**	**0.0000**	**1.1937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2900e-003	0.0431	0.0466	6.0000e-005		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	5.5822	5.5822	1.8100e-003	0.0000	5.6201
Total	**4.2900e-003**	**0.0431**	**0.0466**	**6.0000e-005**		**2.7200e-003**	**2.7200e-003**		**2.5100e-003**	**2.5100e-003**	**0.0000**	**5.5822**	**5.5822**	**1.8100e-003**	**0.0000**	**5.6201**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	2.7200e-003	5.8000e-003	1.0000e-005	2.5000e-004	4.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.8256	0.8256	1.0000e-005	0.0000	0.8257
Worker	1.3000e-004	2.0000e-004	1.8700e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3677	0.3677	2.0000e-005	0.0000	0.3680
Total	**5.2000e-004**	**2.9200e-003**	**7.6700e-003**	**2.0000e-005**	**6.9000e-004**	**4.0000e-005**	**7.3000e-004**	**1.9000e-004**	**4.0000e-005**	**2.3000e-004**	**0.0000**	**1.1933**	**1.1933**	**3.0000e-005**	**0.0000**	**1.1937**

3.21 Fine Grading P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0954	0.0000	0.0954	0.0396	0.0000	0.0396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0537	0.5815	0.4518	7.1000e-004		0.0266	0.0266		0.0245	0.0245	0.0000	62.2273	62.2273	0.0201	0.0000	62.6500
Total	**0.0537**	**0.5815**	**0.4518**	**7.1000e-004**	**0.0954**	**0.0266**	**0.1221**	**0.0396**	**0.0245**	**0.0641**	**0.0000**	**62.2273**	**62.2273**	**0.0201**	**0.0000**	**62.6500**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	2.8500e-003	6.0700e-003	1.0000e-005	2.8000e-004	4.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.8649	0.8649	1.0000e-005	0.0000	0.8651
Worker	5.3000e-004	8.4000e-004	7.8600e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5406	1.5406	7.0000e-005	0.0000	1.5422
Total	**9.4000e-004**	**3.6900e-003**	**0.0139**	**3.0000e-005**	**2.2700e-003**	**5.0000e-005**	**2.3200e-003**	**6.1000e-004**	**5.0000e-005**	**6.6000e-004**	**0.0000**	**2.4056**	**2.4056**	**8.0000e-005**	**0.0000**	**2.4072**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0408	0.0000	0.0408	0.0169	0.0000	0.0169	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0537	0.5815	0.4518	7.1000e-004		0.0266	0.0266		0.0245	0.0245	0.0000	62.2272	62.2272	0.0201	0.0000	62.6499
Total	**0.0537**	**0.5815**	**0.4518**	**7.1000e-004**	**0.0408**	**0.0266**	**0.0674**	**0.0169**	**0.0245**	**0.0414**	**0.0000**	**62.2272**	**62.2272**	**0.0201**	**0.0000**	**62.6499**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	2.8500e-003	6.0700e-003	1.0000e-005	2.6000e-004	4.0000e-005	3.1000e-004	8.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.8649	0.8649	1.0000e-005	0.0000	0.8651
Worker	5.3000e-004	8.4000e-004	7.8600e-003	2.0000e-005	1.8300e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5406	1.5406	7.0000e-005	0.0000	1.5422
Total	**9.4000e-004**	**3.6900e-003**	**0.0139**	**3.0000e-005**	**2.0900e-003**	**5.0000e-005**	**2.1600e-003**	**5.7000e-004**	**5.0000e-005**	**6.1000e-004**	**0.0000**	**2.4056**	**2.4056**	**8.0000e-005**	**0.0000**	**2.4072**

3.22 Asphalt Paving P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0289	0.2652	0.2442	3.5000e-004		0.0171	0.0171		0.0159	0.0159	0.0000	29.9127	29.9127	8.9400e-003	0.0000	30.1004
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0403**	**0.2652**	**0.2442**	**3.5000e-004**		**0.0171**	**0.0171**		**0.0159**	**0.0159**	**0.0000**	**29.9127**	**29.9127**	**8.9400e-003**	**0.0000**	**30.1004**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	1.9300e-003	0.0181	5.0000e-005	4.5700e-003	3.0000e-005	4.6100e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.5434	3.5434	1.7000e-004	0.0000	3.5470
Total	**1.2200e-003**	**1.9300e-003**	**0.0181**	**5.0000e-005**	**4.5700e-003**	**3.0000e-005**	**4.6100e-003**	**1.2200e-003**	**3.0000e-005**	**1.2500e-003**	**0.0000**	**3.5434**	**3.5434**	**1.7000e-004**	**0.0000**	**3.5470**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0289	0.2652	0.2442	3.5000e-004		0.0171	0.0171		0.0159	0.0159	0.0000	29.9127	29.9127	8.9400e-003	0.0000	30.1003
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0403**	**0.2652**	**0.2442**	**3.5000e-004**		**0.0171**	**0.0171**		**0.0159**	**0.0159**	**0.0000**	**29.9127**	**29.9127**	**8.9400e-003**	**0.0000**	**30.1003**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	1.9300e-003	0.0181	5.0000e-005	4.2200e-003	3.0000e-005	4.2500e-003	1.1300e-003	3.0000e-005	1.1600e-003	0.0000	3.5434	3.5434	1.7000e-004	0.0000	3.5470
Total	**1.2200e-003**	**1.9300e-003**	**0.0181**	**5.0000e-005**	**4.2200e-003**	**3.0000e-005**	**4.2500e-003**	**1.1300e-003**	**3.0000e-005**	**1.1600e-003**	**0.0000**	**3.5434**	**3.5434**	**1.7000e-004**	**0.0000**	**3.5470**

3.23 Architectural Coating P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0134					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0101	0.0110	2.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	1.5320	1.5320	1.2000e-004	0.0000	1.5344
Total	**0.0148**	**0.0101**	**0.0110**	**2.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.7000e-004**	**6.7000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.2000e-004**	**0.0000**	**1.5344**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.5000e-004	2.3600e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4622	0.4622	2.0000e-005	0.0000	0.4627
Total	**1.6000e-004**	**2.5000e-004**	**2.3600e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.0000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4622**	**0.4622**	**2.0000e-005**	**0.0000**	**0.4627**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0134					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0101	0.0110	2.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	1.5320	1.5320	1.2000e-004	0.0000	1.5344
Total	**0.0148**	**0.0101**	**0.0110**	**2.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.7000e-004**	**6.7000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.2000e-004**	**0.0000**	**1.5344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.5000e-004	2.3600e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4622	0.4622	2.0000e-005	0.0000	0.4627
Total	**1.6000e-004**	**2.5000e-004**	**2.3600e-003**	**1.0000e-005**	**5.5000e-004**	**0.0000**	**5.5000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.4622**	**0.4622**	**2.0000e-005**	**0.0000**	**0.4627**

Millbrae TOD 2 Construction

San Mateo County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating P1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving P2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving P4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction P2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction P3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition P1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition P2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition P4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading P1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading P4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading Pile Driver P2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading P2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving P1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Trenching P1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	4	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	12	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	3	No Change	0.00
Cranes	Diesel	No Change	0	2	No Change	0.00
Excavators	Diesel	No Change	0	6	No Change	0.00
Forklifts	Diesel	No Change	0	4	No Change	0.00
Generator Sets	Diesel	No Change	0	0	No Change	0.00
Graders	Diesel	No Change	0	3	No Change	0.00
Other Construction Equipment	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	3	No Change	0.00
Paving Equipment	Diesel	No Change	0	6	No Change	0.00
Rollers	Diesel	No Change	0	3	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	28	No Change	0.00
Welders	Diesel	No Change	0	6	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.28000E-002	8.64600E-002	8.31900E-002	1.30000E-004	6.31000E-003	6.31000E-003	0.00000E+000	1.14897E+001	1.14897E+001	1.04000E-003	0.00000E+000	1.15115E+001
Cement and Mortar Mixers	7.54000E-003	4.72900E-002	3.95800E-002	9.00000E-005	1.86000E-003	1.86000E-003	0.00000E+000	5.88122E+000	5.88122E+000	6.10000E-004	0.00000E+000	5.89404E+000
Cranes	5.82300E-002	7.36370E-001	5.01850E-001	7.20000E-004	2.98300E-002	2.74500E-002	0.00000E+000	6.65663E+001	6.65663E+001	2.05800E-002	0.00000E+000	6.69984E+001
Excavators	4.67400E-002	5.25090E-001	4.36920E-001	6.80000E-004	2.58000E-002	2.37300E-002	0.00000E+000	6.31010E+001	6.31010E+001	1.92500E-002	0.00000E+000	6.35053E+001
Forklifts	1.64770E-001	1.70157E+000	1.28482E+000	1.87000E-003	9.27600E-002	8.53400E-002	0.00000E+000	1.70058E+002	1.70058E+002	5.31400E-002	0.00000E+000	1.71174E+002
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	6.38700E-002	6.47440E-001	3.21130E-001	4.10000E-004	3.63400E-002	3.34300E-002	0.00000E+000	3.84045E+001	3.84045E+001	1.17100E-002	0.00000E+000	3.86505E+001
Other Construction Equipment	1.67600E-002	2.22890E-001	1.24530E-001	2.70000E-004	8.21000E-003	7.55000E-003	0.00000E+000	2.52011E+001	2.52011E+001	7.60000E-003	0.00000E+000	2.53607E+001
Pavers	1.32400E-002	1.22990E-001	9.13100E-002	1.20000E-004	9.23000E-003	8.49000E-003	0.00000E+000	1.09156E+001	1.09156E+001	3.44000E-003	0.00000E+000	1.09879E+001
Paving Equipment	1.79000E-002	1.68110E-001	1.39060E-001	1.90000E-004	1.19900E-002	1.10400E-002	0.00000E+000	1.68092E+001	1.68092E+001	5.30000E-003	0.00000E+000	1.69204E+001
Rollers	1.00800E-002	9.74000E-002	7.73600E-002	1.00000E-004	6.63000E-003	6.10000E-003	0.00000E+000	9.46223E+000	9.46223E+000	2.98000E-003	0.00000E+000	9.52485E+000
Rubber Tired Dozers	1.62930E-001	1.80521E+000	1.37292E+000	1.23000E-003	8.38100E-002	7.71000E-002	0.00000E+000	1.14384E+002	1.14384E+002	3.50400E-002	0.00000E+000	1.15119E+002
Scrapers	1.71150E-001	2.15951E+000	1.35474E+000	1.94000E-003	8.67200E-002	7.97800E-002	0.00000E+000	1.80685E+002	1.80685E+002	5.51200E-002	0.00000E+000	1.81843E+002
Tractors/Loaders/Backhoes	2.54910E-001	2.48894E+000	2.14835E+000	2.84000E-003	1.79190E-001	1.64850E-001	0.00000E+000	2.59937E+002	2.59937E+002	8.07800E-002	0.00000E+000	2.61634E+002
Welders	6.38230E-001	2.45503E+000	2.71842E+000	3.75000E-003	1.63460E-001	1.63460E-001	0.00000E+000	2.76193E+002	2.76193E+002	5.20200E-002	0.00000E+000	2.77286E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.28000E-002	8.64600E-002	8.31900E-002	1.30000E-004	6.31000E-003	6.31000E-003	0.00000E+000	1.14896E+001	1.14896E+001	1.04000E-003	0.00000E+000	1.15115E+001
Cement and Mortar Mixers	7.54000E-003	4.72900E-002	3.95800E-002	9.00000E-005	1.86000E-003	1.86000E-003	0.00000E+000	5.88121E+000	5.88121E+000	6.10000E-004	0.00000E+000	5.89403E+000
Cranes	5.82300E-002	7.36370E-001	5.01850E-001	7.20000E-004	2.98300E-002	2.74500E-002	0.00000E+000	6.65662E+001	6.65662E+001	2.05800E-002	0.00000E+000	6.69983E+001
Excavators	4.67400E-002	5.25090E-001	4.36920E-001	6.80000E-004	2.58000E-002	2.37300E-002	0.00000E+000	6.31009E+001	6.31009E+001	1.92500E-002	0.00000E+000	6.35052E+001
Forklifts	1.64770E-001	1.70157E+000	1.28482E+000	1.87000E-003	9.27600E-002	8.53400E-002	0.00000E+000	1.70058E+002	1.70058E+002	5.31400E-002	0.00000E+000	1.71173E+002
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	6.38700E-002	6.47440E-001	3.21130E-001	4.10000E-004	3.63400E-002	3.34300E-002	0.00000E+000	3.84044E+001	3.84044E+001	1.17100E-002	0.00000E+000	3.86504E+001
Other Construction Equipment	1.67600E-002	2.22890E-001	1.24530E-001	2.70000E-004	8.21000E-003	7.55000E-003	0.00000E+000	2.52011E+001	2.52011E+001	7.60000E-003	0.00000E+000	2.53607E+001

Pavers	1.32400E-002	1.22990E-001	9.13100E-002	1.20000E-004	9.23000E-003	8.49000E-003	0.00000E+000	1.09156E+001	1.09156E+001	3.44000E-003	0.00000E+000	1.09878E+001
Paving Equipment	1.79000E-002	1.68110E-001	1.39060E-001	1.90000E-004	1.19900E-002	1.10400E-002	0.00000E+000	1.68092E+001	1.68092E+001	5.30000E-003	0.00000E+000	1.69204E+001
Rollers	1.00800E-002	9.74000E-002	7.73600E-002	1.00000E-004	6.63000E-003	6.10000E-003	0.00000E+000	9.46222E+000	9.46222E+000	2.98000E-003	0.00000E+000	9.52484E+000
Rubber Tired Dozers	1.62930E-001	1.80520E+000	1.37291E+000	1.23000E-003	8.38100E-002	7.71000E-002	0.00000E+000	1.14383E+002	1.14383E+002	3.50400E-002	0.00000E+000	1.15119E+002
Scrapers	1.71150E-001	2.15951E+000	1.35474E+000	1.94000E-003	8.67200E-002	7.97800E-002	0.00000E+000	1.80685E+002	1.80685E+002	5.51200E-002	0.00000E+000	1.81843E+002
Tractors/Loaders/Backhoes	2.54910E-001	2.48893E+000	2.14835E+000	2.84000E-003	1.79190E-001	1.64850E-001	0.00000E+000	2.59937E+002	2.59937E+002	8.07800E-002	0.00000E+000	2.61633E+002
Welders	6.38230E-001	2.45503E+000	2.71842E+000	3.75000E-003	1.63460E-001	1.63460E-001	0.00000E+000	2.76193E+002	2.76193E+002	5.20200E-002	0.00000E+000	2.77286E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.70349E-007	8.70349E-007	0.00000E+000	0.00000E+000	8.68694E-007
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.70033E-006	1.70033E-006	0.00000E+000	0.00000E+000	1.69663E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20181E-006	1.20181E-006	0.00000E+000	0.00000E+000	1.19406E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26781E-006	1.26781E-006	0.00000E+000	0.00000E+000	1.25974E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23487E-006	1.23487E-006	0.00000E+000	0.00000E+000	1.22682E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30193E-006	1.30193E-006	0.00000E+000	0.00000E+000	1.03492E-006
Other Construction Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19042E-006	1.19042E-006	0.00000E+000	0.00000E+000	1.18293E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.16119E-007	9.16119E-007	0.00000E+000	0.00000E+000	1.82019E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18983E-006	1.18983E-006	0.00000E+000	0.00000E+000	1.18200E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.05683E-006	1.05683E-006	0.00000E+000	0.00000E+000	1.04989E-006
Rubber Tired Dozers	0.00000E+000	5.53952E-006	7.28375E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13653E-006	1.13653E-006	0.00000E+000	0.00000E+000	1.21613E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16224E-006	1.16224E-006	0.00000E+000	0.00000E+000	1.20983E-006
Tractors/Loaders/Backhoes	0.00000E+000	4.01777E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19260E-006	1.19260E-006	0.00000E+000	0.00000E+000	1.18486E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15861E-006	1.15861E-006	0.00000E+000	0.00000E+000	1.19011E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating P1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P1	Roads	0.00	0.00	0.00	0.00	0.07	0.08
Architectural Coating P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P2	Roads	0.02	0.01	0.02	0.01	0.08	0.07
Architectural Coating P3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P3	Roads	0.00	0.00	0.00	0.00	0.08	0.05
Architectural Coating P4	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P4	Roads	0.00	0.00	0.00	0.00	0.08	0.06
Asphalt Paving P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving P2	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Asphalt Paving P4	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving P4	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Building Construction Crane P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P3	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Building Construction P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction P2	Roads	1.58	0.43	1.46	0.40	0.08	0.07
Building Construction P3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction P3	Roads	0.09	0.02	0.08	0.02	0.07	0.07
Demolition P1	Fugitive Dust	0.02	0.00	0.01	0.00	0.57	0.57
Demolition P1	Roads	0.00	0.00	0.00	0.00	0.07	0.08
Demolition P2	Fugitive Dust	0.01	0.00	0.01	0.00	0.57	0.57
Demolition P2	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Demolition P4	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.57
Demolition P4	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Fine Grading P1	Fugitive Dust	0.19	0.08	0.08	0.03	0.57	0.57
Fine Grading P1	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Fine Grading P4	Fugitive Dust	0.10	0.04	0.04	0.02	0.57	0.57
Fine Grading P4	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Grading Pile Driver P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading Pile Driver P2	Roads	0.00	0.00	0.00	0.00	0.08	0.06
Mass Grading P2	Fugitive Dust	0.29	0.12	0.12	0.05	0.57	0.57
Mass Grading P2	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Paving P1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving P1	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Trenching P1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P1	Roads	0.00	0.00	0.00	0.00	0.07	0.05
Trenching P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P2	Roads	0.00	0.00	0.00	0.00	0.07	0.10
Trenching P3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P3	Roads	0.00	0.00	0.00	0.00	0.07	0.10
Trenching P4	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P4	Roads	0.00	0.00	0.00	0.00	0.07	0.10

TOD #2 CalEEMod Construction: Mitigated

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Millbrae TOD 2 Construction_Mitigated

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	164.53	1000sqft	0.00	164,535.00	0
Enclosed Parking with Elevator	351.25	1000sqft	2.06	351,251.00	0
Other Asphalt Surfaces	3.04	Acre	3.04	0.00	0
Other Non-Asphalt Surfaces	0.64	Acre	0.64	0.00	0
Parking Lot	5.65	Acre	5.65	246,000.00	0
High Turnover (Sit Down Restaurant)	5.25	1000sqft	0.12	5,250.00	0
Hotel	116.00	Room	0.47	55,440.00	0
Apartments Mid Rise	321.00	Dwelling Unit	2.08	321,293.00	0
Strip Mall	41.69	1000sqft	2.08	41,685.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Construction Phase - Based on information verified and provided by the Applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

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Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Proxy for pile driver. Based on information provided by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Off-road Equipment - Based on information verified by the Applicant.

Trips and VMT - Water truck assumed as 4 vendor trips. Coating and building trips based on CalEEMod methodology and land use amounts for each development phase. Building Construction Crane trips accounted in Building Construction subphases.

Demolition -

Grading -

Architectural Coating - Based on the calculated paintable surfaces for each development phase and on information provided by the Applicant.

Construction Off-road Equipment Mitigation - BAAQMD Fugitive Dust Control BMP. Mitigation requiring utilizing Tier 3 equipment with Level 3 DPF.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	312,771.00	30,686.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	312,771.00	4,314.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	312,771.00	26,123.00
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	312,771.00	1,280.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	938,312.00	92,057.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	938,312.00	12,941.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	938,312.00	310,367.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	938,312.00	3,839.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	216,873.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	216,873.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	216,873.00	108,436.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	216,873.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	650,618.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	650,618.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	650,618.00	618,087.00
tblArchitecturalCoating	ConstArea_Residential_Interior	650,618.00	0.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3

tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	28.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	300.00	565.00
tblConstructionPhase	NumDays	300.00	130.00
tblConstructionPhase	NumDays	300.00	435.00
tblConstructionPhase	NumDays	300.00	64.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	30.00	22.00
tblConstructionPhase	NumDays	30.00	44.00
tblConstructionPhase	NumDays	30.00	66.00
tblConstructionPhase	NumDays	30.00	45.00
tblConstructionPhase	NumDays	20.00	11.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	PhaseEndDate	9/1/2017	11/30/2018
tblConstructionPhase	PhaseEndDate	9/2/2020	7/31/2020
tblConstructionPhase	PhaseEndDate	11/17/2020	10/31/2020
tblConstructionPhase	PhaseEndDate	6/14/2016	5/15/2016
tblConstructionPhase	PhaseEndDate	5/31/2019	6/30/2017

tblConstructionPhase	PhaseEndDate	8/31/2020	7/31/2020
tblConstructionPhase	PhaseEndDate	10/29/2020	2/28/2019
tblConstructionPhase	PhaseEndDate	1/29/2016	1/31/2016
tblConstructionPhase	PhaseEndDate	4/2/2019	7/31/2020
tblConstructionPhase	PhaseEndDate	6/14/2016	6/30/2016
tblConstructionPhase	PhaseEndDate	4/28/2016	4/30/2016
tblConstructionPhase	PhaseEndDate	12/17/2018	11/15/2018
tblConstructionPhase	PhaseEndDate	12/1/2020	10/31/2020
tblConstructionPhase	PhaseEndDate	12/14/2018	12/31/2018
tblConstructionPhase	PhaseEndDate	2/26/2016	2/28/2016
tblConstructionPhase	PhaseEndDate	10/31/2016	7/31/2016
tblConstructionPhase	PhaseStartDate	7/1/2017	10/1/2018
tblConstructionPhase	PhaseStartDate	8/1/2020	7/1/2020
tblConstructionPhase	PhaseStartDate	11/1/2020	10/15/2020
tblConstructionPhase	PhaseStartDate	6/1/2016	5/1/2016
tblConstructionPhase	PhaseStartDate	12/1/2018	1/1/2017
tblConstructionPhase	PhaseStartDate	1/1/2019	12/1/2018
tblConstructionPhase	PhaseStartDate	8/1/2020	12/1/2018
tblConstructionPhase	PhaseStartDate	3/1/2019	7/1/2020
tblConstructionPhase	PhaseStartDate	5/16/2016	6/1/2016
tblConstructionPhase	PhaseStartDate	2/29/2016	3/1/2016
tblConstructionPhase	PhaseStartDate	12/1/2018	11/1/2018
tblConstructionPhase	PhaseStartDate	10/1/2020	9/1/2020
tblConstructionPhase	PhaseStartDate	11/16/2018	12/1/2018
tblConstructionPhase	PhaseStartDate	10/1/2016	7/1/2016
tblLandUse	LandUseSquareFeet	164,530.00	164,535.00
tblLandUse	LandUseSquareFeet	351,250.00	351,251.00

tblLandUse	LandUseSquareFeet	132,422.40	0.00
tblLandUse	LandUseSquareFeet	27,878.40	0.00
tblLandUse	LandUseSquareFeet	246,114.00	246,000.00
tblLandUse	LandUseSquareFeet	168,432.00	55,440.00
tblLandUse	LandUseSquareFeet	321,000.00	321,293.00
tblLandUse	LandUseSquareFeet	41,690.00	41,685.00
tblLandUse	LotAcreage	3.78	0.00
tblLandUse	LotAcreage	8.06	2.06
tblLandUse	LotAcreage	3.87	0.47
tblLandUse	LotAcreage	8.45	2.08
tblLandUse	LotAcreage	0.96	2.08
tblLandUse	Population	918.00	0.00
tblOffRoadEquipment	HorsePower	81.00	10.00
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tblOffRoadEquipment	HorsePower	81.00	10.00
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tblOffRoadEquipment	HorsePower	125.00	100.00
tblOffRoadEquipment	HorsePower	125.00	100.00
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tblOffRoadEquipment	HorsePower	130.00	104.00

tblOffRoadEquipment	HorsePower	130.00	104.00
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tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00

tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00
tblOffRoadEquipment	HorsePower	97.00	108.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
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tblOffRoadEquipment	UsageHours	7.00	6.00
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tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00

tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	176.00	147.00
tblTripsAndVMT	VendorTripNumber	176.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	176.00	14.00
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tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	573.00	515.00
tblTripsAndVMT	WorkerTripNumber	573.00	0.00
tblTripsAndVMT	WorkerTripNumber	115.00	103.00
tblTripsAndVMT	WorkerTripNumber	573.00	35.00
tblTripsAndVMT	WorkerTripNumber	573.00	0.00
tblTripsAndVMT	WorkerTripNumber	115.00	7.00

tblTripsAndVMT	WorkerTripNumber	115.00	11.00
tblTripsAndVMT	WorkerTripNumber	115.00	10.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.7681	6.6815	6.0467	8.3900e-003	0.7169	0.3191	1.0360	0.2582	0.2948	0.5530	0.0000	746.1478	746.1478	0.1507	0.0000	749.3122
2017	0.7751	4.2358	8.0994	0.0139	0.7271	0.1609	0.8880	0.1960	0.1519	0.3479	0.0000	1,127.2399	1,127.2399	0.0864	0.0000	1,129.053
2018	3.2946	3.4866	7.1349	0.0132	0.6983	0.1352	0.8335	0.1881	0.1282	0.3163	0.0000	1,038.597	1,038.5979	0.0745	0.0000	1,040.162
2019	0.2620	1.6469	1.9001	2.9900e-003	0.0530	0.0899	0.1428	0.0143	0.0857	0.1000	0.0000	240.9674	240.9674	0.0452	0.0000	241.9165
2020	0.5943	1.9835	2.0729	3.2400e-	0.1380	0.1039	0.2419	0.0510	0.0974	0.1483	0.0000	266.1117	266.1117	0.0620	0.0000	267.4136
Total	**5.6941**	**18.0343**	**25.2540**	**0.0418**	**2.3332**	**0.8089**	**3.1421**	**0.7076**	**0.7579**	**1.4655**	**0.0000**	**3,419.0646**	**3,419.0646**	**0.4187**	**0.0000**	**3,427.8580**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.4232	3.7452	5.4518	8.3900e-003	0.4077	0.0736	0.4813	0.1380	0.0701	0.2081	0.0000	746.1472	746.1472	0.1507	0.0000	749.3116
2017	0.6727	3.4531	8.0224	0.0139	0.6722	0.0830	0.7552	0.1825	0.0807	0.2632	0.0000	1,127.239	1,127.2396	0.0864	0.0000	1,129.053
2018	3.2175	3.0481	7.1632	0.0132	0.6455	0.0745	0.7200	0.1752	0.0725	0.2477	0.0000	1,038.597	1,038.5977	0.0745	0.0000	1,040.162
2019	0.2055	1.3396	1.9349	2.9900e-	0.0490	0.0452	0.0942	0.0134	0.0450	0.0584	0.0000	240.9672	240.9672	0.0452	0.0000	241.9163
2020	0.5052	1.5546	2.0943	3.2400e-	0.0797	0.0372	0.1169	0.0275	0.0365	0.0640	0.0000	266.1114	266.1114	0.0620	0.0000	267.4133
Total	**5.0241**	**13.1406**	**24.6666**	**0.0418**	**1.8541**	**0.3135**	**2.1676**	**0.5365**	**0.3048**	**0.8413**	**0.0000**	**3,419.0631**	**3,419.0631**	**0.4187**	**0.0000**	**3,427.8565**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**11.77**	**27.14**	**2.33**	**0.00**	**20.53**	**61.25**	**31.02**	**24.18**	**59.79**	**42.59**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition P1	Demolition	1/1/2016	1/31/2016	5	21	
2	Trenching P1	Trenching	2/1/2016	2/28/2016	5	20	
3	Fine Grading P1	Grading	3/1/2016	4/30/2016	5	44	
4	Paving P1	Paving	5/1/2016	5/31/2016	5	22	
5	Architectural Coating P1	Architectural Coating	5/1/2016	5/15/2016	5	10	
6	Demolition P2	Demolition	6/1/2016	6/30/2016	5	22	
7	Mass Grading P2	Grading	7/1/2016	9/30/2016	5	66	
8	Trenching P2	Trenching	7/1/2016	7/31/2016	5	21	
9	Grading Pile Driver P2	Grading	8/1/2016	9/30/2016	5	45	
10	Building Construction P2	Building Construction	10/1/2016	11/30/2018	5	565	
11	Building Construction Crane P2	Building Construction	1/1/2017	6/30/2017	5	130	
12	Architectural Coating P2	Architectural Coating	10/1/2018	11/30/2018	5	45	
13	Asphalt Paving P2	Paving	11/1/2018	11/15/2018	5	11	
14	Trenching P3	Trenching	12/1/2018	12/31/2018	5	21	
15	Building Construction P3	Building Construction	12/1/2018	7/31/2020	5	435	
16	Building Construction Crane P3	Building Construction	12/1/2018	2/28/2019	5	64	
17	Demolition P4	Demolition	7/1/2020	7/31/2020	5	23	
18	Architectural Coating P3	Architectural Coating	7/1/2020	7/31/2020	5	23	
19	Trenching P4	Trenching	8/1/2020	8/31/2020	5	21	
20	Fine Grading P4	Grading	9/1/2020	9/30/2020	5	22	
21	Asphalt Paving P4	Paving	9/1/2020	10/31/2020	5	44	
22	Architectural Coating P4	Architectural Coating	10/15/2020	10/31/2020	5	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 12,941; Non-Residential Outdoor: 4,314 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition P1	Concrete/Industrial Saws	1	8.00	10	0.73
Demolition P1	Excavators	0	8.00	162	0.38
Demolition P1	Rubber Tired Dozers	1	8.00	357	0.40
Demolition P1	Tractors/Loaders/Backhoes	3	8.00	108	0.37
Trenching P1	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Fine Grading P1	Excavators	2	8.00	157	0.38
Fine Grading P1	Graders	1	8.00	174	0.41
Fine Grading P1	Rubber Tired Dozers	1	8.00	357	0.40
Fine Grading P1	Scrapers	2	8.00	356	0.48
Fine Grading P1	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Paving P1	Cement and Mortar Mixers	4	6.00	10	0.56
Paving P1	Pavers	1	7.00	100	0.42
Paving P1	Paving Equipment	2	6.00	104	0.36
Paving P1	Rollers	1	7.00	95	0.38
Paving P1	Tractors/Loaders/Backhoes	1	7.00	108	0.37
Architectural Coating P1	Air Compressors	1	6.00	78	0.48
Demolition P2	Concrete/Industrial Saws	1	8.00	10	0.73
Demolition P2	Excavators	0	8.00	162	0.38
Demolition P2	Rubber Tired Dozers	1	8.00	357	0.40
Demolition P2	Tractors/Loaders/Backhoes	3	8.00	108	0.37

Mass Grading P2	Excavators	2	8.00	157	0.38
Mass Grading P2	Graders	1	8.00	174	0.41
Mass Grading P2	Rubber Tired Dozers	1	8.00	357	0.40
Mass Grading P2	Scrapers	2	8.00	356	0.48
Mass Grading P2	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Trenching P2	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Grading Pile Driver P2	Excavators	0	8.00	162	0.38
Grading Pile Driver P2	Graders	0	8.00	174	0.41
Grading Pile Driver P2	Other Construction Equipment	1	8.00	327	0.42
Grading Pile Driver P2	Rubber Tired Dozers	0	8.00	255	0.40
Grading Pile Driver P2	Scrapers	0	8.00	361	0.48
Grading Pile Driver P2	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction P2	Cranes	0	7.00	226	0.29
Building Construction P2	Forklifts	2	6.00	145	0.20
Building Construction P2	Generator Sets	0	8.00	84	0.74
Building Construction P2	Tractors/Loaders/Backhoes	1	8.00	108	0.37
Building Construction P2	Welders	3	8.00	45	0.45
Building Construction Crane P2	Cranes	1	6.00	399	0.29
Building Construction Crane P2	Forklifts	0	8.00	89	0.20
Building Construction Crane P2	Generator Sets	0	8.00	84	0.74
Building Construction Crane P2	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction Crane P2	Welders	0	8.00	46	0.45
Architectural Coating P2	Air Compressors	1	6.00	78	0.48
Asphalt Paving P2	Cement and Mortar Mixers	4	6.00	10	0.56
Asphalt Paving P2	Pavers	1	7.00	100	0.42
Asphalt Paving P2	Paving Equipment	2	6.00	104	0.36
Asphalt Paving P2	Rollers	1	7.00	95	0.38

Asphalt Paving P2	Tractors/Loaders/Backhoes	1	7.00	108	0.37
Trenching P3	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Building Construction P3	Cranes	0	7.00	226	0.29
Building Construction P3	Forklifts	2	6.00	145	0.20
Building Construction P3	Generator Sets	0	8.00	84	0.74
Building Construction P3	Tractors/Loaders/Backhoes	1	8.00	108	0.37
Building Construction P3	Welders	3	8.00	45	0.45
Building Construction Crane P3	Cranes	1	6.00	399	0.29
Building Construction Crane P3	Forklifts	0	8.00	89	0.20
Building Construction Crane P3	Generator Sets	0	8.00	84	0.74
Building Construction Crane P3	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction Crane P3	Welders	0	8.00	46	0.45
Demolition P4	Concrete/Industrial Saws	1	8.00	10	0.73
Demolition P4	Excavators	0	8.00	162	0.38
Demolition P4	Rubber Tired Dozers	1	8.00	357	0.40
Demolition P4	Tractors/Loaders/Backhoes	3	8.00	108	0.37
Architectural Coating P3	Air Compressors	1	6.00	78	0.48
Trenching P4	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Fine Grading P4	Excavators	2	8.00	157	0.38
Fine Grading P4	Graders	1	8.00	174	0.41
Fine Grading P4	Rubber Tired Dozers	1	8.00	357	0.40
Fine Grading P4	Scrapers	2	8.00	356	0.48
Fine Grading P4	Tractors/Loaders/Backhoes	2	7.00	108	0.37
Asphalt Paving P4	Cement and Mortar Mixers	4	6.00	10	0.56
Asphalt Paving P4	Pavers	1	7.00	100	0.42
Asphalt Paving P4	Paving Equipment	2	6.00	104	0.36
Asphalt Paving P4	Rollers	1	7.00	95	0.38
Asphalt Paving P4	Tractors/Loaders/Backhoes	1	7.00	108	0.37
Architectural Coating P4	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition P1	5	13.00	4.00	220.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching P1	2	5.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading P1	8	20.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving P1	9	23.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating P1	1	10.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition P2	5	13.00	4.00	113.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Mass Grading P2	8	20.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching P2	2	5.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading Pile Driver P2	1	3.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction P2	6	515.00	147.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction Crane P2	1	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating P2	1	103.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving P2	9	23.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching P3	2	5.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction P3	6	35.00	14.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction Crane P3	1	0.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition P4	5	13.00	4.00	9.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating P3	1	7.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching P4	2	5.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading P4	8	20.00	4.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving P4	9	23.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating P4	1	11.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0238	0.0000	0.0238	3.6100e-003	0.0000	3.6100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0302	0.3181	0.2387	2.4000e-004		0.0183	0.0183		0.0168	0.0168	0.0000	22.6130	22.6130	6.8200e-003	0.0000	22.7562
Total	**0.0302**	**0.3181**	**0.2387**	**2.4000e-004**	**0.0238**	**0.0183**	**0.0421**	**3.6100e-003**	**0.0168**	**0.0204**	**0.0000**	**22.6130**	**22.6130**	**6.8200e-003**	**0.0000**	**22.7562**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-003	0.0331	0.0392	8.0000e-005	1.8300e-003	4.1000e-004	2.2400e-003	5.0000e-004	3.7000e-004	8.8000e-004	0.0000	7.2928	7.2928	5.0000e-005	0.0000	7.2939
Vendor	5.5000e-004	4.2600e-003	7.2900e-003	1.0000e-005	2.7000e-004	6.0000e-005	3.3000e-004	8.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.8885	0.8885	1.0000e-005	0.0000	0.8886
Worker	4.9000e-004	7.6000e-004	7.2200e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1126	1.1126	6.0000e-005	0.0000	1.1139
Total	**3.8400e-003**	**0.0381**	**0.0538**	**1.0000e-004**	**3.3300e-003**	**4.8000e-004**	**3.8100e-003**	**9.1000e-004**	**4.4000e-004**	**1.3500e-003**	**0.0000**	**9.2939**	**9.2939**	**1.2000e-004**	**0.0000**	**9.2964**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0102	0.0000	0.0102	1.5400e-003	0.0000	1.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0134	0.1935	0.1936	2.4000e-004		5.5600e-003	5.5600e-003		5.1800e-003	5.1800e-003	0.0000	22.6129	22.6129	6.8200e-003	0.0000	22.7562
Total	**0.0134**	**0.1935**	**0.1936**	**2.4000e-004**	**0.0102**	**5.5600e-003**	**0.0158**	**1.5400e-003**	**5.1800e-003**	**6.7200e-003**	**0.0000**	**22.6129**	**22.6129**	**6.8200e-003**	**0.0000**	**22.7562**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-003	0.0331	0.0392	8.0000e-005	1.7100e-003	4.1000e-004	2.1200e-003	4.7000e-004	3.7000e-004	8.5000e-004	0.0000	7.2928	7.2928	5.0000e-005	0.0000	7.2939
Vendor	5.5000e-004	4.2600e-003	7.2900e-003	1.0000e-005	2.5000e-004	6.0000e-005	3.1000e-004	7.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.8885	0.8885	1.0000e-005	0.0000	0.8886
Worker	4.9000e-004	7.6000e-004	7.2200e-003	1.0000e-005	1.1400e-003	1.0000e-005	1.1500e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1126	1.1126	6.0000e-005	0.0000	1.1139
Total	**3.8400e-003**	**0.0381**	**0.0538**	**1.0000e-004**	**3.1000e-003**	**4.8000e-004**	**3.5800e-003**	**8.4000e-004**	**4.4000e-004**	**1.2900e-003**	**0.0000**	**9.2939**	**9.2939**	**1.2000e-004**	**0.0000**	**9.2964**

3.3 Trenching P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6400e-003	0.0634	0.0470	6.0000e-005		4.8800e-003	4.8800e-003		4.4900e-003	4.4900e-003	0.0000	5.7213	5.7213	1.7300e-003	0.0000	5.7576
Total	**6.6400e-003**	**0.0634**	**0.0470**	**6.0000e-005**		**4.8800e-003**	**4.8800e-003**		**4.4900e-003**	**4.4900e-003**	**0.0000**	**5.7213**	**5.7213**	**1.7300e-003**	**0.0000**	**5.7576**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2000e-004	4.0500e-003	6.9400e-003	1.0000e-005	2.6000e-004	6.0000e-005	3.1000e-004	7.0000e-005	5.0000e-005	1.3000e-004	0.0000	0.8462	0.8462	1.0000e-005	0.0000	0.8463
Worker	1.8000e-004	2.8000e-004	2.6500e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4075	0.4075	2.0000e-005	0.0000	0.4080
Total	**7.0000e-004**	**4.3300e-003**	**9.5900e-003**	**2.0000e-005**	**7.1000e-004**	**6.0000e-005**	**7.7000e-004**	**1.9000e-004**	**5.0000e-005**	**2.5000e-004**	**0.0000**	**1.2537**	**1.2537**	**3.0000e-005**	**0.0000**	**1.2543**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4800e-003	0.0338	0.0456	6.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004	0.0000	5.7213	5.7213	1.7300e-003	0.0000	5.7576
Total	**1.4800e-003**	**0.0338**	**0.0456**	**6.0000e-005**		**3.6000e-004**	**3.6000e-004**		**3.6000e-004**	**3.6000e-004**	**0.0000**	**5.7213**	**5.7213**	**1.7300e-003**	**0.0000**	**5.7576**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2000e-004	4.0500e-003	6.9400e-003	1.0000e-005	2.4000e-004	6.0000e-005	3.0000e-004	7.0000e-005	5.0000e-005	1.2000e-004	0.0000	0.8462	0.8462	1.0000e-005	0.0000	0.8463
Worker	1.8000e-004	2.8000e-004	2.6500e-003	1.0000e-005	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4075	0.4075	2.0000e-005	0.0000	0.4080
Total	**7.0000e-004**	**4.3300e-003**	**9.5900e-003**	**2.0000e-005**	**6.6000e-004**	**6.0000e-005**	**7.2000e-004**	**1.8000e-004**	**5.0000e-005**	**2.3000e-004**	**0.0000**	**1.2537**	**1.2537**	**3.0000e-005**	**0.0000**	**1.2543**

3.4 Fine Grading P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1908	0.0000	0.1908	0.0791	0.0000	0.0791	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1517	1.7475	1.1592	1.4200e-003		0.0835	0.0835		0.0768	0.0768	0.0000	133.5366	133.5366	0.0403	0.0000	134.3824
Total	**0.1517**	**1.7475**	**1.1592**	**1.4200e-003**	**0.1908**	**0.0835**	**0.2743**	**0.0791**	**0.0768**	**0.1560**	**0.0000**	**133.5366**	**133.5366**	**0.0403**	**0.0000**	**134.3824**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1500e-003	8.9200e-003	0.0153	2.0000e-005	5.6000e-004	1.3000e-004	6.9000e-004	1.6000e-004	1.2000e-004	2.8000e-004	0.0000	1.8616	1.8616	1.0000e-005	0.0000	1.8619
Worker	1.5700e-003	2.4500e-003	0.0233	5.0000e-005	3.9800e-003	3.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.5864	3.5864	2.0000e-004	0.0000	3.5905
Total	**2.7200e-003**	**0.0114**	**0.0386**	**7.0000e-005**	**4.5400e-003**	**1.6000e-004**	**4.7000e-003**	**1.2200e-003**	**1.5000e-004**	**1.3700e-003**	**0.0000**	**5.4480**	**5.4480**	**2.1000e-004**	**0.0000**	**5.4524**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0816	0.0000	0.0816	0.0338	0.0000	0.0338	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0504	0.8315	0.9524	1.4200e-003		0.0141	0.0141		0.0133	0.0133	0.0000	133.5364	133.5364	0.0403	0.0000	134.3823
Total	**0.0504**	**0.8315**	**0.9524**	**1.4200e-003**	**0.0816**	**0.0141**	**0.0957**	**0.0338**	**0.0133**	**0.0471**	**0.0000**	**133.5364**	**133.5364**	**0.0403**	**0.0000**	**134.3823**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1500e-003	8.9200e-003	0.0153	2.0000e-005	5.3000e-004	1.3000e-004	6.5000e-004	1.5000e-004	1.2000e-004	2.7000e-004	0.0000	1.8616	1.8616	1.0000e-005	0.0000	1.8619
Worker	1.5700e-003	2.4500e-003	0.0233	5.0000e-005	3.6700e-003	3.0000e-005	3.7000e-003	9.8000e-004	3.0000e-005	1.0100e-003	0.0000	3.5864	3.5864	2.0000e-004	0.0000	3.5905
Total	**2.7200e-003**	**0.0114**	**0.0386**	**7.0000e-005**	**4.2000e-003**	**1.6000e-004**	**4.3500e-003**	**1.1300e-003**	**1.5000e-004**	**1.2800e-003**	**0.0000**	**5.4480**	**5.4480**	**2.1000e-004**	**0.0000**	**5.4524**

3.5 Paving P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0211	0.1884	0.1284	1.8000e-004		0.0139	0.0139		0.0128	0.0128	0.0000	15.9311	15.9311	4.4700e-003	0.0000	16.0250
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0325**	**0.1884**	**0.1284**	**1.8000e-004**		**0.0139**	**0.0139**		**0.0128**	**0.0128**	**0.0000**	**15.9311**	**15.9311**	**4.4700e-003**	**0.0000**	**16.0250**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	1.4100e-003	0.0134	3.0000e-005	2.2900e-003	2.0000e-005	2.3000e-003	6.1000e-004	2.0000e-005	6.3000e-004	0.0000	2.0622	2.0622	1.1000e-004	0.0000	2.0645
Total	**9.0000e-004**	**1.4100e-003**	**0.0134**	**3.0000e-005**	**2.2900e-003**	**2.0000e-005**	**2.3000e-003**	**6.1000e-004**	**2.0000e-005**	**6.3000e-004**	**0.0000**	**2.0622**	**2.0622**	**1.1000e-004**	**0.0000**	**2.0645**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8700e-003	0.0983	0.1258	1.8000e-004		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003	0.0000	15.9311	15.9311	4.4700e-003	0.0000	16.0250
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0173**	**0.0983**	**0.1258**	**1.8000e-004**		**1.4400e-003**	**1.4400e-003**		**1.4400e-003**	**1.4400e-003**	**0.0000**	**15.9311**	**15.9311**	**4.4700e-003**	**0.0000**	**16.0250**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-004	1.4100e-003	0.0134	3.0000e-005	2.1100e-003	2.0000e-005	2.1300e-003	5.6000e-004	2.0000e-005	5.8000e-004	0.0000	2.0622	2.0622	1.1000e-004	0.0000	2.0645
Total	**9.0000e-004**	**1.4100e-003**	**0.0134**	**3.0000e-005**	**2.1100e-003**	**2.0000e-005**	**2.1300e-003**	**5.6000e-004**	**2.0000e-005**	**5.8000e-004**	**0.0000**	**2.0622**	**2.0622**	**1.1000e-004**	**0.0000**	**2.0645**

3.6 Architectural Coating P1 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0119	9.4200e-003	1.0000e-005		9.8000e-004	9.8000e-004		9.8000e-004	9.8000e-004	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	**0.0468**	**0.0119**	**9.4200e-003**	**1.0000e-005**		**9.8000e-004**	**9.8000e-004**		**9.8000e-004**	**9.8000e-004**	**0.0000**	**1.2766**	**1.2766**	**1.5000e-004**	**0.0000**	**1.2798**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.8000e-004	2.6500e-003	1.0000e-005	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4075	0.4075	2.0000e-005	0.0000	0.4080
Total	**1.8000e-004**	**2.8000e-004**	**2.6500e-003**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**4.6000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.4075**	**0.4075**	**2.0000e-005**	**0.0000**	**0.4080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	6.7800e-003	9.1600e-003	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	1.2766	1.2766	1.5000e-004	0.0000	1.2798
Total	**0.0453**	**6.7800e-003**	**9.1600e-003**	**1.0000e-005**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**	**0.0000**	**1.2766**	**1.2766**	**1.5000e-004**	**0.0000**	**1.2798**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	2.8000e-004	2.6500e-003	1.0000e-005	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4075	0.4075	2.0000e-005	0.0000	0.4080
Total	**1.8000e-004**	**2.8000e-004**	**2.6500e-003**	**1.0000e-005**	**4.2000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.4075**	**0.4075**	**2.0000e-005**	**0.0000**	**0.4080**

3.7 Demolition P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0122	0.0000	0.0122	1.8500e-003	0.0000	1.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0316	0.3332	0.2501	2.5000e-004		0.0192	0.0192		0.0176	0.0176	0.0000	23.6898	23.6898	7.1500e-003	0.0000	23.8398
Total	**0.0316**	**0.3332**	**0.2501**	**2.5000e-004**	**0.0122**	**0.0192**	**0.0314**	**1.8500e-003**	**0.0176**	**0.0195**	**0.0000**	**23.6898**	**23.6898**	**7.1500e-003**	**0.0000**	**23.8398**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0170	0.0202	4.0000e-005	9.4000e-004	2.1000e-004	1.1500e-003	2.6000e-004	1.9000e-004	4.5000e-004	0.0000	3.7458	3.7458	3.0000e-005	0.0000	3.7464
Vendor	5.8000e-004	4.4600e-003	7.6300e-003	1.0000e-005	2.8000e-004	6.0000e-005	3.4000e-004	8.0000e-005	6.0000e-005	1.4000e-004	0.0000	0.9308	0.9308	1.0000e-005	0.0000	0.9310
Worker	5.1000e-004	8.0000e-004	7.5700e-003	2.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.1656	1.1656	6.0000e-005	0.0000	1.1669
Total	**2.5300e-003**	**0.0223**	**0.0354**	**7.0000e-005**	**2.5100e-003**	**2.8000e-004**	**2.7900e-003**	**6.8000e-004**	**2.6000e-004**	**9.4000e-004**	**0.0000**	**5.8422**	**5.8422**	**1.0000e-004**	**0.0000**	**5.8443**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2300e-003	0.0000	5.2300e-003	7.9000e-004	0.0000	7.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.2027	0.2028	2.5000e-004		5.8200e-003	5.8200e-003		5.4200e-003	5.4200e-003	0.0000	23.6897	23.6897	7.1500e-003	0.0000	23.8398
Total	**0.0140**	**0.2027**	**0.2028**	**2.5000e-004**	**5.2300e-003**	**5.8200e-003**	**0.0111**	**7.9000e-004**	**5.4200e-003**	**6.2100e-003**	**0.0000**	**23.6897**	**23.6897**	**7.1500e-003**	**0.0000**	**23.8398**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4400e-003	0.0170	0.0202	4.0000e-005	8.8000e-004	2.1000e-004	1.0900e-003	2.4000e-004	1.9000e-004	4.3000e-004	0.0000	3.7458	3.7458	3.0000e-005	0.0000	3.7464
Vendor	5.8000e-004	4.4600e-003	7.6300e-003	1.0000e-005	2.6000e-004	6.0000e-005	3.3000e-004	8.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.9308	0.9308	1.0000e-005	0.0000	0.9310
Worker	5.1000e-004	8.0000e-004	7.5700e-003	2.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.1656	1.1656	6.0000e-005	0.0000	1.1669
Total	**2.5300e-003**	**0.0223**	**0.0354**	**7.0000e-005**	**2.3300e-003**	**2.8000e-004**	**2.6200e-003**	**6.4000e-004**	**2.6000e-004**	**8.9000e-004**	**0.0000**	**5.8422**	**5.8422**	**1.0000e-004**	**0.0000**	**5.8443**

3.8 Mass Grading P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2862	0.0000	0.2862	0.1187	0.0000	0.1187	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2275	2.6213	1.7388	2.1200e-003		0.1253	0.1253		0.1153	0.1153	0.0000	200.3048	200.3048	0.0604	0.0000	201.5736
Total	**0.2275**	**2.6213**	**1.7388**	**2.1200e-003**	**0.2862**	**0.1253**	**0.4115**	**0.1187**	**0.1153**	**0.2339**	**0.0000**	**200.3048**	**200.3048**	**0.0604**	**0.0000**	**201.5736**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7300e-003	0.0134	0.0229	3.0000e-005	8.4000e-004	1.9000e-004	1.0300e-003	2.4000e-004	1.8000e-004	4.2000e-004	0.0000	2.7924	2.7924	2.0000e-005	0.0000	2.7929
Worker	2.3600e-003	3.6700e-003	0.0349	7.0000e-005	5.9600e-003	5.0000e-005	6.0100e-003	1.5900e-003	4.0000e-005	1.6300e-003	0.0000	5.3796	5.3796	2.9000e-004	0.0000	5.3858
Total	**4.0900e-003**	**0.0171**	**0.0578**	**1.0000e-004**	**6.8000e-003**	**2.4000e-004**	**7.0400e-003**	**1.8300e-003**	**2.2000e-004**	**2.0500e-003**	**0.0000**	**8.1720**	**8.1720**	**3.1000e-004**	**0.0000**	**8.1786**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1224	0.0000	0.1224	0.0507	0.0000	0.0507	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0757	1.2473	1.4286	2.1200e-003		0.0211	0.0211		0.0199	0.0199	0.0000	200.3046	200.3046	0.0604	0.0000	201.5734
Total	**0.0757**	**1.2473**	**1.4286**	**2.1200e-003**	**0.1224**	**0.0211**	**0.1435**	**0.0507**	**0.0199**	**0.0707**	**0.0000**	**200.3046**	**200.3046**	**0.0604**	**0.0000**	**201.5734**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7300e-003	0.0134	0.0229	3.0000e-005	7.9000e-004	1.9000e-004	9.8000e-004	2.3000e-004	1.8000e-004	4.0000e-004	0.0000	2.7924	2.7924	2.0000e-005	0.0000	2.7929
Worker	2.3600e-003	3.6700e-003	0.0349	7.0000e-005	5.5000e-003	5.0000e-005	5.5500e-003	1.4700e-003	4.0000e-005	1.5200e-003	0.0000	5.3796	5.3796	2.9000e-004	0.0000	5.3858
Total	**4.0900e-003**	**0.0171**	**0.0578**	**1.0000e-004**	**6.2900e-003**	**2.4000e-004**	**6.5300e-003**	**1.7000e-003**	**2.2000e-004**	**1.9200e-003**	**0.0000**	**8.1720**	**8.1720**	**3.1000e-004**	**0.0000**	**8.1786**

3.9 Trenching P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.9700e-003	0.0666	0.0494	6.0000e-005		5.1300e-003	5.1300e-003		4.7200e-003	4.7200e-003	0.0000	6.0074	6.0074	1.8100e-003	0.0000	6.0455
Total	**6.9700e-003**	**0.0666**	**0.0494**	**6.0000e-005**		**5.1300e-003**	**5.1300e-003**		**4.7200e-003**	**4.7200e-003**	**0.0000**	**6.0074**	**6.0074**	**1.8100e-003**	**0.0000**	**6.0455**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	4.2600e-003	7.2900e-003	1.0000e-005	2.7000e-004	6.0000e-005	3.3000e-004	8.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.8885	0.8885	1.0000e-005	0.0000	0.8886
Worker	1.9000e-004	2.9000e-004	2.7800e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4279	0.4279	2.0000e-005	0.0000	0.4284
Total	**7.4000e-004**	**4.5500e-003**	**0.0101**	**2.0000e-005**	**7.4000e-004**	**6.0000e-005**	**8.1000e-004**	**2.1000e-004**	**6.0000e-005**	**2.6000e-004**	**0.0000**	**1.3164**	**1.3164**	**3.0000e-005**	**0.0000**	**1.3171**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5500e-003	0.0355	0.0479	6.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	6.0074	6.0074	1.8100e-003	0.0000	6.0455
Total	**1.5500e-003**	**0.0355**	**0.0479**	**6.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**6.0074**	**6.0074**	**1.8100e-003**	**0.0000**	**6.0455**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	4.2600e-003	7.2900e-003	1.0000e-005	2.5000e-004	6.0000e-005	3.1000e-004	7.0000e-005	6.0000e-005	1.3000e-004	0.0000	0.8885	0.8885	1.0000e-005	0.0000	0.8886
Worker	1.9000e-004	2.9000e-004	2.7800e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4279	0.4279	2.0000e-005	0.0000	0.4284
Total	**7.4000e-004**	**4.5500e-003**	**0.0101**	**2.0000e-005**	**6.9000e-004**	**6.0000e-005**	**7.5000e-004**	**1.9000e-004**	**6.0000e-005**	**2.5000e-004**	**0.0000**	**1.3164**	**1.3164**	**3.0000e-005**	**0.0000**	**1.3171**

3.10 Grading Pile Driver P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0168	0.2229	0.1245	2.7000e-004		8.2100e-003	8.2100e-003		7.5500e-003	7.5500e-003	0.0000	25.2011	25.2011	7.6000e-003	0.0000	25.3607
Total	**0.0168**	**0.2229**	**0.1245**	**2.7000e-004**	**0.0000**	**8.2100e-003**	**8.2100e-003**	**0.0000**	**7.5500e-003**	**7.5500e-003**	**0.0000**	**25.2011**	**25.2011**	**7.6000e-003**	**0.0000**	**25.3607**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	3.8000e-004	3.5700e-003	1.0000e-005	6.1000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5502	0.5502	3.0000e-005	0.0000	0.5508
Total	**2.4000e-004**	**3.8000e-004**	**3.5700e-003**	**1.0000e-005**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.7000e-004**	**0.0000**	**0.5502**	**0.5502**	**3.0000e-005**	**0.0000**	**0.5508**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.5400e-003	0.1264	0.1417	2.7000e-004		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	25.2011	25.2011	7.6000e-003	0.0000	25.3607
Total	**6.5400e-003**	**0.1264**	**0.1417**	**2.7000e-004**	**0.0000**	**7.2000e-004**	**7.2000e-004**	**0.0000**	**7.2000e-004**	**7.2000e-004**	**0.0000**	**25.2011**	**25.2011**	**7.6000e-003**	**0.0000**	**25.3607**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	3.8000e-004	3.5700e-003	1.0000e-005	5.6000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.6000e-004	0.0000	0.5502	0.5502	3.0000e-005	0.0000	0.5508
Total	**2.4000e-004**	**3.8000e-004**	**3.5700e-003**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**5.7000e-004**	**1.5000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5502**	**0.5502**	**3.0000e-005**	**0.0000**	**0.5508**

3.11 Building Construction P2 - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0792	0.4312	0.3618	4.8000e-004		0.0304	0.0304		0.0290	0.0290	0.0000	40.0282	40.0282	0.0110	0.0000	40.2596
Total	**0.0792**	**0.4312**	**0.3618**	**4.8000e-004**		**0.0304**	**0.0304**		**0.0290**	**0.0290**	**0.0000**	**40.0282**	**40.0282**	**0.0110**	**0.0000**	**40.2596**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0625	0.4841	0.8288	1.1200e-003	0.0305	6.9100e-003	0.0374	8.7400e-003	6.3500e-003	0.0151	0.0000	101.0664	101.0664	8.0000e-004	0.0000	101.0833
Worker	0.0599	0.0932	0.8858	1.7700e-003	0.1513	1.2200e-003	0.1525	0.0403	1.1200e-003	0.0414	0.0000	136.4254	136.4254	7.4600e-003	0.0000	136.5821
Total	**0.1224**	**0.5773**	**1.7146**	**2.8900e-003**	**0.1818**	**8.1300e-003**	**0.1899**	**0.0490**	**7.4700e-003**	**0.0565**	**0.0000**	**237.4918**	**237.4918**	**8.2600e-003**	**0.0000**	**237.6654**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0594	0.2925	0.3649	4.8000e-004		0.0146	0.0146		0.0146	0.0146	0.0000	40.0282	40.0282	0.0110	0.0000	40.2596
Total	**0.0594**	**0.2925**	**0.3649**	**4.8000e-004**		**0.0146**	**0.0146**		**0.0146**	**0.0146**	**0.0000**	**40.0282**	**40.0282**	**0.0110**	**0.0000**	**40.2596**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0625	0.4841	0.8288	1.1200e-003	0.0285	6.9100e-003	0.0354	8.2600e-003	6.3500e-003	0.0146	0.0000	101.0664	101.0664	8.0000e-004	0.0000	101.0833
Worker	0.0599	0.0932	0.8858	1.7700e-003	0.1395	1.2200e-003	0.1407	0.0374	1.1200e-003	0.0385	0.0000	136.4254	136.4254	7.4600e-003	0.0000	136.5821
Total	**0.1224**	**0.5773**	**1.7146**	**2.8900e-003**	**0.1680**	**8.1300e-003**	**0.1762**	**0.0456**	**7.4700e-003**	**0.0531**	**0.0000**	**237.4918**	**237.4918**	**8.2600e-003**	**0.0000**	**237.6654**

3.11 Building Construction P2 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2876	1.6395	1.4205	1.9100e-003		0.1112	0.1112		0.1062	0.1062	0.0000	158.6903	158.6903	0.0422	0.0000	159.5757
Total	**0.2876**	**1.6395**	**1.4205**	**1.9100e-003**		**0.1112**	**0.1112**		**0.1062**	**0.1062**	**0.0000**	**158.6903**	**158.6903**	**0.0422**	**0.0000**	**159.5757**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2342	1.7410	3.1648	4.4700e-003	0.1221	0.0240	0.1460	0.0350	0.0220	0.0570	0.0000	398.0818	398.0818	3.0600e-003	0.0000	398.1461
Worker	0.2125	0.3348	3.1611	7.0800e-003	0.6051	4.6500e-003	0.6097	0.1610	4.2800e-003	0.1653	0.0000	525.4818	525.4818	0.0273	0.0000	526.0560
Total	**0.4467**	**2.0757**	**6.3259**	**0.0116**	**0.7271**	**0.0286**	**0.7557**	**0.1960**	**0.0263**	**0.2223**	**0.0000**	**923.5636**	**923.5636**	**0.0304**	**0.0000**	**924.2021**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2141	1.1466	1.4378	1.9100e-003		0.0531	0.0531		0.0531	0.0531	0.0000	158.6901	158.6901	0.0422	0.0000	159.5755
Total	**0.2141**	**1.1466**	**1.4378**	**1.9100e-003**		**0.0531**	**0.0531**		**0.0531**	**0.0531**	**0.0000**	**158.6901**	**158.6901**	**0.0422**	**0.0000**	**159.5755**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2342	1.7410	3.1648	4.4700e-003	0.1142	0.0240	0.1381	0.0331	0.0220	0.0551	0.0000	398.0818	398.0818	3.0600e-003	0.0000	398.1461
Worker	0.2125	0.3348	3.1611	7.0800e-003	0.5580	4.6500e-003	0.5627	0.1495	4.2800e-003	0.1537	0.0000	525.4818	525.4818	0.0273	0.0000	526.0560
Total	**0.4467**	**2.0757**	**6.3259**	**0.0116**	**0.6722**	**0.0286**	**0.7008**	**0.1825**	**0.0263**	**0.2088**	**0.0000**	**923.5636**	**923.5636**	**0.0304**	**0.0000**	**924.2021**

3.11 Building Construction P2 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2305	1.3515	1.2741	1.7600e-003		0.0871	0.0871		0.0833	0.0833	0.0000	145.1609	145.1609	0.0373	0.0000	145.9435
Total	**0.2305**	**1.3515**	**1.2741**	**1.7600e-003**		**0.0871**	**0.0871**		**0.0833**	**0.0833**	**0.0000**	**145.1609**	**145.1609**	**0.0373**	**0.0000**	**145.9435**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2014	1.4595	2.7789	4.1200e-003	0.1127	0.0205	0.1332	0.0323	0.0189	0.0511	0.0000	361.3084	361.3084	2.7800e-003	0.0000	361.3667
Worker	0.1750	0.2791	2.6167	6.5300e-003	0.5585	4.1400e-003	0.5626	0.1486	3.8300e-003	0.1524	0.0000	467.4466	467.4466	0.0233	0.0000	467.9354
Total	**0.3764**	**1.7386**	**5.3956**	**0.0107**	**0.6712**	**0.0246**	**0.6958**	**0.1809**	**0.0227**	**0.2036**	**0.0000**	**828.7549**	**828.7549**	**0.0261**	**0.0000**	**829.3021**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1768	1.0377	1.3083	1.7600e-003		0.0440	0.0440		0.0440	0.0440	0.0000	145.1607	145.1607	0.0373	0.0000	145.9433
Total	**0.1768**	**1.0377**	**1.3083**	**1.7600e-003**		**0.0440**	**0.0440**		**0.0440**	**0.0440**	**0.0000**	**145.1607**	**145.1607**	**0.0373**	**0.0000**	**145.9433**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.2014	1.4595	2.7789	4.1200e-003	0.1054	0.0205	0.1259	0.0305	0.0189	0.0494	0.0000	361.3084	361.3084	2.7800e-003	0.0000	361.3667
Worker	0.1750	0.2791	2.6167	6.5300e-003	0.5151	4.1400e-003	0.5192	0.1380	3.8300e-003	0.1418	0.0000	467.4466	467.4466	0.0233	0.0000	467.9354
Total	**0.3764**	**1.7386**	**5.3956**	**0.0107**	**0.6205**	**0.0246**	**0.6451**	**0.1685**	**0.0227**	**0.1911**	**0.0000**	**828.7549**	**828.7549**	**0.0261**	**0.0000**	**829.3021**

3.12 Building Construction Crane P2 - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0408	0.5205	0.3529	4.8000e-004		0.0211	0.0211		0.0194	0.0194	0.0000	44.9860	44.9860	0.0138	0.0000	45.2755
Total	**0.0408**	**0.5205**	**0.3529**	**4.8000e-004**		**0.0211**	**0.0211**		**0.0194**	**0.0194**	**0.0000**	**44.9860**	**44.9860**	**0.0138**	**0.0000**	**45.2755**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0119	0.2308	0.2587	4.8000e-004		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003	0.0000	44.9860	44.9860	0.0138	0.0000	45.2754
Total	**0.0119**	**0.2308**	**0.2587**	**4.8000e-004**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**	**0.0000**	**44.9860**	**44.9860**	**0.0138**	**0.0000**	**45.2754**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.13 Architectural Coating P2 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.7200e-003	0.0451	0.0417	7.0000e-005		3.3900e-003	3.3900e-003		3.3900e-003	3.3900e-003	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563
Total	**2.6262**	**0.0451**	**0.0417**	**7.0000e-005**		**3.3900e-003**	**3.3900e-003**		**3.3900e-003**	**3.3900e-003**	**0.0000**	**5.7448**	**5.7448**	**5.5000e-004**	**0.0000**	**5.7563**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5600e-003	0.0105	0.0981	2.5000e-004	0.0209	1.6000e-004	0.0211	5.5700e-003	1.4000e-004	5.7200e-003	0.0000	17.5293	17.5293	8.7000e-004	0.0000	17.5476
Total	**6.5600e-003**	**0.0105**	**0.0981**	**2.5000e-004**	**0.0209**	**1.6000e-004**	**0.0211**	**5.5700e-003**	**1.4000e-004**	**5.7200e-003**	**0.0000**	**17.5293**	**17.5293**	**8.7000e-004**	**0.0000**	**17.5476**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.6195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3400e-003	0.0305	0.0412	7.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	5.7448	5.7448	5.5000e-004	0.0000	5.7563
Total	**2.6208**	**0.0305**	**0.0412**	**7.0000e-005**		**3.2000e-004**	**3.2000e-004**		**3.2000e-004**	**3.2000e-004**	**0.0000**	**5.7448**	**5.7448**	**5.5000e-004**	**0.0000**	**5.7563**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5600e-003	0.0105	0.0981	2.5000e-004	0.0193	1.6000e-004	0.0195	5.1700e-003	1.4000e-004	5.3200e-003	0.0000	17.5293	17.5293	8.7000e-004	0.0000	17.5476
Total	**6.5600e-003**	**0.0105**	**0.0981**	**2.5000e-004**	**0.0193**	**1.6000e-004**	**0.0195**	**5.1700e-003**	**1.4000e-004**	**5.3200e-003**	**0.0000**	**17.5293**	**17.5293**	**8.7000e-004**	**0.0000**	**17.5476**

3.14 Asphalt Paving P2 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.3300e-003	0.0763	0.0619	9.0000e-005		5.2300e-003	5.2300e-003		4.8300e-003	4.8300e-003	0.0000	7.7396	7.7396	2.2400e-003	0.0000	7.7866
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0197**	**0.0763**	**0.0619**	**9.0000e-005**		**5.2300e-003**	**5.2300e-003**		**4.8300e-003**	**4.8300e-003**	**0.0000**	**7.7396**	**7.7396**	**2.2400e-003**	**0.0000**	**7.7866**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	5.7000e-004	5.3600e-003	1.0000e-005	1.1400e-003	1.0000e-005	1.1500e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	0.9568	0.9568	5.0000e-005	0.0000	0.9578
Total	**3.6000e-004**	**5.7000e-004**	**5.3600e-003**	**1.0000e-005**	**1.1400e-003**	**1.0000e-005**	**1.1500e-003**	**3.0000e-004**	**1.0000e-005**	**3.1000e-004**	**0.0000**	**0.9568**	**0.9568**	**5.0000e-005**	**0.0000**	**0.9578**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.9300e-003	0.0491	0.0629	9.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	7.7396	7.7396	2.2400e-003	0.0000	7.7866
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0143**	**0.0491**	**0.0629**	**9.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**7.7396**	**7.7396**	**2.2400e-003**	**0.0000**	**7.7866**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	5.7000e-004	5.3600e-003	1.0000e-005	1.0500e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9568	0.9568	5.0000e-005	0.0000	0.9578
Total	**3.6000e-004**	**5.7000e-004**	**5.3600e-003**	**1.0000e-005**	**1.0500e-003**	**1.0000e-005**	**1.0600e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.9568**	**0.9568**	**5.0000e-005**	**0.0000**	**0.9578**

3.15 Trenching P3 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.4400e-003	0.0538	0.0478	6.0000e-005		3.8100e-003	3.8100e-003		3.5100e-003	3.5100e-003	0.0000	5.8051	5.8051	1.8100e-003	0.0000	5.8430
Total	**5.4400e-003**	**0.0538**	**0.0478**	**6.0000e-005**		**3.8100e-003**	**3.8100e-003**		**3.5100e-003**	**3.5100e-003**	**0.0000**	**5.8051**	**5.8051**	**1.8100e-003**	**0.0000**	**5.8430**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	3.4800e-003	6.6200e-003	1.0000e-005	2.7000e-004	5.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.8603	0.8603	1.0000e-005	0.0000	0.8604
Worker	1.5000e-004	2.4000e-004	2.2200e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3971	0.3971	2.0000e-005	0.0000	0.3975
Total	**6.3000e-004**	**3.7200e-003**	**8.8400e-003**	**2.0000e-005**	**7.4000e-004**	**5.0000e-005**	**8.0000e-004**	**2.1000e-004**	**4.0000e-005**	**2.5000e-004**	**0.0000**	**1.2574**	**1.2574**	**3.0000e-005**	**0.0000**	**1.2579**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5500e-003	0.0355	0.0479	6.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.8051	5.8051	1.8100e-003	0.0000	5.8430
Total	**1.5500e-003**	**0.0355**	**0.0479**	**6.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**5.8051**	**5.8051**	**1.8100e-003**	**0.0000**	**5.8430**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8000e-004	3.4800e-003	6.6200e-003	1.0000e-005	2.5000e-004	5.0000e-005	3.0000e-004	7.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.8603	0.8603	1.0000e-005	0.0000	0.8604
Worker	1.5000e-004	2.4000e-004	2.2200e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3971	0.3971	2.0000e-005	0.0000	0.3975
Total	**6.3000e-004**	**3.7200e-003**	**8.8400e-003**	**2.0000e-005**	**6.9000e-004**	**5.0000e-005**	**7.4000e-004**	**1.9000e-004**	**4.0000e-005**	**2.4000e-004**	**0.0000**	**1.2574**	**1.2574**	**3.0000e-005**	**0.0000**	**1.2579**

3.16 Building Construction P3 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0202	0.1183	0.1115	1.5000e-004		7.6200e-003	7.6200e-003		7.2900e-003	7.2900e-003	0.0000	12.7016	12.7016	3.2600e-003	0.0000	12.7701
Total	**0.0202**	**0.1183**	**0.1115**	**1.5000e-004**		**7.6200e-003**	**7.6200e-003**		**7.2900e-003**	**7.2900e-003**	**0.0000**	**12.7016**	**12.7016**	**3.2600e-003**	**0.0000**	**12.7701**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6800e-003	0.0122	0.0232	3.0000e-005	9.4000e-004	1.7000e-004	1.1100e-003	2.7000e-004	1.6000e-004	4.3000e-004	0.0000	3.0109	3.0109	2.0000e-005	0.0000	3.0114
Worker	1.0400e-003	1.6600e-003	0.0156	4.0000e-005	3.3200e-003	2.0000e-005	3.3500e-003	8.8000e-004	2.0000e-005	9.1000e-004	0.0000	2.7797	2.7797	1.4000e-004	0.0000	2.7826
Total	**2.7200e-003**	**0.0138**	**0.0387**	**7.0000e-005**	**4.2600e-003**	**1.9000e-004**	**4.4600e-003**	**1.1500e-003**	**1.8000e-004**	**1.3400e-003**	**0.0000**	**5.7906**	**5.7906**	**1.6000e-004**	**0.0000**	**5.7940**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0155	0.0908	0.1145	1.5000e-004		3.8500e-003	3.8500e-003		3.8500e-003	3.8500e-003	0.0000	12.7016	12.7016	3.2600e-003	0.0000	12.7700
Total	**0.0155**	**0.0908**	**0.1145**	**1.5000e-004**		**3.8500e-003**	**3.8500e-003**		**3.8500e-003**	**3.8500e-003**	**0.0000**	**12.7016**	**12.7016**	**3.2600e-003**	**0.0000**	**12.7700**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6800e-003	0.0122	0.0232	3.0000e-005	8.8000e-004	1.7000e-004	1.0500e-003	2.5000e-004	1.6000e-004	4.1000e-004	0.0000	3.0109	3.0109	2.0000e-005	0.0000	3.0114
Worker	1.0400e-003	1.6600e-003	0.0156	4.0000e-005	3.0600e-003	2.0000e-005	3.0900e-003	8.2000e-004	2.0000e-005	8.4000e-004	0.0000	2.7797	2.7797	1.4000e-004	0.0000	2.7826
Total	**2.7200e-003**	**0.0138**	**0.0387**	**7.0000e-005**	**3.9400e-003**	**1.9000e-004**	**4.1400e-003**	**1.0700e-003**	**1.8000e-004**	**1.2500e-003**	**0.0000**	**5.7906**	**5.7906**	**1.6000e-004**	**0.0000**	**5.7940**

3.16 Building Construction P3 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2196	1.3486	1.3559	1.9200e-003		0.0819	0.0819		0.0784	0.0784	0.0000	156.4578	156.4578	0.0387	0.0000	157.2715
Total	**0.2196**	**1.3486**	**1.3559**	**1.9200e-003**		**0.0819**	**0.0819**		**0.0784**	**0.0784**	**0.0000**	**156.4578**	**156.4578**	**0.0387**	**0.0000**	**157.2715**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0191	0.1381	0.2698	4.3000e-004	0.0117	1.9700e-003	0.0136	3.3400e-003	1.8100e-003	5.1500e-003	0.0000	36.7637	36.7637	2.8000e-004	0.0000	36.7696
Worker	0.0119	0.0189	0.1767	4.8000e-004	0.0413	3.0000e-004	0.0416	0.0110	2.8000e-004	0.0113	0.0000	33.3225	33.3225	1.6100e-003	0.0000	33.3563
Total	**0.0309**	**0.1569**	**0.4465**	**9.1000e-004**	**0.0530**	**2.2700e-003**	**0.0552**	**0.0143**	**2.0900e-003**	**0.0164**	**0.0000**	**70.0862**	**70.0862**	**1.8900e-003**	**0.0000**	**70.1259**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1706	1.1064	1.4029	1.9200e-003		0.0425	0.0425		0.0425	0.0425	0.0000	156.4577	156.4577	0.0387	0.0000	157.2713
Total	**0.1706**	**1.1064**	**1.4029**	**1.9200e-003**		**0.0425**	**0.0425**		**0.0425**	**0.0425**	**0.0000**	**156.4577**	**156.4577**	**0.0387**	**0.0000**	**157.2713**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0191	0.1381	0.2698	4.3000e-004	0.0109	1.9700e-003	0.0129	3.1600e-003	1.8100e-003	4.9700e-003	0.0000	36.7637	36.7637	2.8000e-004	0.0000	36.7696
Worker	0.0119	0.0189	0.1767	4.8000e-004	0.0381	3.0000e-004	0.0384	0.0102	2.8000e-004	0.0105	0.0000	33.3225	33.3225	1.6100e-003	0.0000	33.3563
Total	**0.0309**	**0.1569**	**0.4465**	**9.1000e-004**	**0.0490**	**2.2700e-003**	**0.0513**	**0.0134**	**2.0900e-003**	**0.0154**	**0.0000**	**70.0862**	**70.0862**	**1.8900e-003**	**0.0000**	**70.1259**

3.16 Building Construction P3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1145	0.7269	0.7816	1.1200e-003		0.0414	0.0414		0.0396	0.0396	0.0000	90.6347	90.6347	0.0219	0.0000	91.0944
Total	**0.1145**	**0.7269**	**0.7816**	**1.1200e-003**		**0.0414**	**0.0414**		**0.0396**	**0.0396**	**0.0000**	**90.6347**	**90.6347**	**0.0219**	**0.0000**	**91.0944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9700e-003	0.0694	0.1478	2.5000e-004	6.8400e-003	1.0300e-003	7.8700e-003	1.9600e-003	9.5000e-004	2.9100e-003	0.0000	21.0528	21.0528	1.6000e-004	0.0000	21.0562
Worker	6.4700e-003	0.0102	0.0956	2.8000e-004	0.0242	1.7000e-004	0.0244	6.4400e-003	1.6000e-004	6.6000e-003	0.0000	18.7501	18.7501	8.9000e-004	0.0000	18.7688
Total	**0.0164**	**0.0796**	**0.2434**	**5.3000e-004**	**0.0310**	**1.2000e-003**	**0.0322**	**8.4000e-003**	**1.1100e-003**	**9.5100e-003**	**0.0000**	**39.8029**	**39.8029**	**1.0500e-003**	**0.0000**	**39.8249**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0903	0.6367	0.8134	1.1200e-003		0.0221	0.0221		0.0221	0.0221	0.0000	90.6346	90.6346	0.0219	0.0000	91.0943
Total	**0.0903**	**0.6367**	**0.8134**	**1.1200e-003**		**0.0221**	**0.0221**		**0.0221**	**0.0221**	**0.0000**	**90.6346**	**90.6346**	**0.0219**	**0.0000**	**91.0943**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.9700e-003	0.0694	0.1478	2.5000e-004	6.4000e-003	1.0300e-003	7.4300e-003	1.8500e-003	9.5000e-004	2.8000e-003	0.0000	21.0528	21.0528	1.6000e-004	0.0000	21.0562
Worker	6.4700e-003	0.0102	0.0956	2.8000e-004	0.0223	1.7000e-004	0.0225	5.9800e-003	1.6000e-004	6.1400e-003	0.0000	18.7501	18.7501	8.9000e-004	0.0000	18.7688
Total	**0.0164**	**0.0796**	**0.2434**	**5.3000e-004**	**0.0287**	**1.2000e-003**	**0.0299**	**7.8300e-003**	**1.1100e-003**	**8.9400e-003**	**0.0000**	**39.8029**	**39.8029**	**1.0500e-003**	**0.0000**	**39.8249**

3.17 Building Construction Crane P3 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9400e-003	0.0745	0.0512	8.0000e-005		3.0100e-003	3.0100e-003		2.7600e-003	2.7600e-003	0.0000	7.1569	7.1569	2.2300e-003	0.0000	7.2037
Total	**5.9400e-003**	**0.0745**	**0.0512**	**8.0000e-005**		**3.0100e-003**	**3.0100e-003**		**2.7600e-003**	**2.7600e-003**	**0.0000**	**7.1569**	**7.1569**	**2.2300e-003**	**0.0000**	**7.2037**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0373	0.0418	8.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	7.1569	7.1569	2.2300e-003	0.0000	7.2037
Total	**1.9300e-003**	**0.0373**	**0.0418**	**8.0000e-005**		**2.1000e-004**	**2.1000e-004**		**2.1000e-004**	**2.1000e-004**	**0.0000**	**7.1569**	**7.1569**	**2.2300e-003**	**0.0000**	**7.2037**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.17 Building Construction Crane P3 - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0115	0.1414	0.0977	1.6000e-004		5.6900e-003	5.6900e-003		5.2400e-003	5.2400e-003	0.0000	14.4233	14.4233	4.5600e-003	0.0000	14.5192
Total	**0.0115**	**0.1414**	**0.0977**	**1.6000e-004**		**5.6900e-003**	**5.6900e-003**		**5.2400e-003**	**5.2400e-003**	**0.0000**	**14.4233**	**14.4233**	**4.5600e-003**	**0.0000**	**14.5192**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9500e-003	0.0764	0.0856	1.6000e-004		4.3000e-004	4.3000e-004		4.3000e-004	4.3000e-004	0.0000	14.4233	14.4233	4.5600e-003	0.0000	14.5191
Total	**3.9500e-003**	**0.0764**	**0.0856**	**1.6000e-004**		**4.3000e-004**	**4.3000e-004**		**4.3000e-004**	**4.3000e-004**	**0.0000**	**14.4233**	**14.4233**	**4.5600e-003**	**0.0000**	**14.5191**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.18 Demolition P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0235	0.2442	0.2153	2.6000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	23.0866	23.0866	7.4700e-003	0.0000	23.2434
Total	**0.0235**	**0.2442**	**0.2153**	**2.6000e-004**	**9.3000e-004**	**0.0126**	**0.0136**	**1.4000e-004**	**0.0116**	**0.0118**	**0.0000**	**23.0866**	**23.0866**	**7.4700e-003**	**0.0000**	**23.2434**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	8.9000e-004	1.3200e-003	0.0000	8.0000e-005	1.0000e-005	9.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2777	0.2777	0.0000	0.0000	0.2777
Vendor	4.3000e-004	2.9800e-003	6.3500e-003	1.0000e-005	2.9000e-004	4.0000e-005	3.4000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.9042	0.9042	1.0000e-005	0.0000	0.9044
Worker	3.6000e-004	5.7000e-004	5.3400e-003	2.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0469	1.0469	5.0000e-005	0.0000	1.0480
Total	**8.8000e-004**	**4.4400e-003**	**0.0130**	**3.0000e-005**	**1.7200e-003**	**6.0000e-005**	**1.7900e-003**	**4.6000e-004**	**6.0000e-005**	**5.2000e-004**	**0.0000**	**2.2288**	**2.2288**	**6.0000e-005**	**0.0000**	**2.2300**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1819	0.1915	2.6000e-004		4.6400e-003	4.6400e-003		4.3400e-003	4.3400e-003	0.0000	23.0866	23.0866	7.4700e-003	0.0000	23.2434
Total	**0.0124**	**0.1819**	**0.1915**	**2.6000e-004**	**4.0000e-004**	**4.6400e-003**	**5.0400e-003**	**6.0000e-005**	**4.3400e-003**	**4.4000e-003**	**0.0000**	**23.0866**	**23.0866**	**7.4700e-003**	**0.0000**	**23.2434**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.0000e-005	8.9000e-004	1.3200e-003	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2777	0.2777	0.0000	0.0000	0.2777
Vendor	4.3000e-004	2.9800e-003	6.3500e-003	1.0000e-005	2.7000e-004	4.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.9042	0.9042	1.0000e-005	0.0000	0.9044
Worker	3.6000e-004	5.7000e-004	5.3400e-003	2.0000e-005	1.2500e-003	1.0000e-005	1.2600e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0469	1.0469	5.0000e-005	0.0000	1.0480
Total	**8.8000e-004**	**4.4400e-003**	**0.0130**	**3.0000e-005**	**1.5900e-003**	**6.0000e-005**	**1.6600e-003**	**4.3000e-004**	**6.0000e-005**	**4.9000e-004**	**0.0000**	**2.2288**	**2.2288**	**6.0000e-005**	**0.0000**	**2.2300**

3.19 Architectural Coating P3 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3200					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7900e-003	0.0194	0.0211	3.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	2.9362	2.9362	2.3000e-004	0.0000	2.9410
Total	**0.3228**	**0.0194**	**0.0211**	**3.0000e-005**		**1.2800e-003**	**1.2800e-003**		**1.2800e-003**	**1.2800e-003**	**0.0000**	**2.9362**	**2.9362**	**2.3000e-004**	**0.0000**	**2.9410**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	3.1000e-004	2.8700e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5637	0.5637	3.0000e-005	0.0000	0.5643
Total	**1.9000e-004**	**3.1000e-004**	**2.8700e-003**	**1.0000e-005**	**7.3000e-004**	**1.0000e-005**	**7.3000e-004**	**1.9000e-004**	**0.0000**	**2.0000e-004**	**0.0000**	**0.5637**	**0.5637**	**3.0000e-005**	**0.0000**	**0.5643**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3200					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8000e-004	0.0156	0.0211	3.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.9362	2.9362	2.3000e-004	0.0000	2.9410
Total	**0.3207**	**0.0156**	**0.0211**	**3.0000e-005**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**2.9362**	**2.9362**	**2.3000e-004**	**0.0000**	**2.9410**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	3.1000e-004	2.8700e-003	1.0000e-005	6.7000e-004	1.0000e-005	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5637	0.5637	3.0000e-005	0.0000	0.5643
Total	**1.9000e-004**	**3.1000e-004**	**2.8700e-003**	**1.0000e-005**	**6.7000e-004**	**1.0000e-005**	**6.8000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.5637**	**0.5637**	**3.0000e-005**	**0.0000**	**0.5643**

3.20 Trenching P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.2900e-003	0.0431	0.0466	6.0000e-005		2.7200e-003	2.7200e-003		2.5100e-003	2.5100e-003	0.0000	5.5822	5.5822	1.8100e-003	0.0000	5.6201
Total	**4.2900e-003**	**0.0431**	**0.0466**	**6.0000e-005**		**2.7200e-003**	**2.7200e-003**		**2.5100e-003**	**2.5100e-003**	**0.0000**	**5.5822**	**5.5822**	**1.8100e-003**	**0.0000**	**5.6201**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	2.7200e-003	5.8000e-003	1.0000e-005	2.7000e-004	4.0000e-005	3.1000e-004	8.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.8256	0.8256	1.0000e-005	0.0000	0.8257
Worker	1.3000e-004	2.0000e-004	1.8700e-003	1.0000e-005	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3677	0.3677	2.0000e-005	0.0000	0.3680
Total	**5.2000e-004**	**2.9200e-003**	**7.6700e-003**	**2.0000e-005**	**7.4000e-004**	**4.0000e-005**	**7.9000e-004**	**2.1000e-004**	**4.0000e-005**	**2.4000e-004**	**0.0000**	**1.1933**	**1.1933**	**3.0000e-005**	**0.0000**	**1.1937**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5500e-003	0.0355	0.0479	6.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	5.5822	5.5822	1.8100e-003	0.0000	5.6201
Total	**1.5500e-003**	**0.0355**	**0.0479**	**6.0000e-005**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**5.5822**	**5.5822**	**1.8100e-003**	**0.0000**	**5.6201**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9000e-004	2.7200e-003	5.8000e-003	1.0000e-005	2.5000e-004	4.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.8256	0.8256	1.0000e-005	0.0000	0.8257
Worker	1.3000e-004	2.0000e-004	1.8700e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3677	0.3677	2.0000e-005	0.0000	0.3680
Total	**5.2000e-004**	**2.9200e-003**	**7.6700e-003**	**2.0000e-005**	**6.9000e-004**	**4.0000e-005**	**7.3000e-004**	**1.9000e-004**	**4.0000e-005**	**2.3000e-004**	**0.0000**	**1.1933**	**1.1933**	**3.0000e-005**	**0.0000**	**1.1937**

3.21 Fine Grading P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0954	0.0000	0.0954	0.0396	0.0000	0.0396	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0537	0.5815	0.4518	7.1000e-004		0.0266	0.0266		0.0245	0.0245	0.0000	62.2273	62.2273	0.0201	0.0000	62.6500
Total	**0.0537**	**0.5815**	**0.4518**	**7.1000e-004**	**0.0954**	**0.0266**	**0.1221**	**0.0396**	**0.0245**	**0.0641**	**0.0000**	**62.2273**	**62.2273**	**0.0201**	**0.0000**	**62.6500**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	2.8500e-003	6.0700e-003	1.0000e-005	2.8000e-004	4.0000e-005	3.2000e-004	8.0000e-005	4.0000e-005	1.2000e-004	0.0000	0.8649	0.8649	1.0000e-005	0.0000	0.8651
Worker	5.3000e-004	8.4000e-004	7.8600e-003	2.0000e-005	1.9900e-003	1.0000e-005	2.0000e-003	5.3000e-004	1.0000e-005	5.4000e-004	0.0000	1.5406	1.5406	7.0000e-005	0.0000	1.5422
Total	**9.4000e-004**	**3.6900e-003**	**0.0139**	**3.0000e-005**	**2.2700e-003**	**5.0000e-005**	**2.3200e-003**	**6.1000e-004**	**5.0000e-005**	**6.6000e-004**	**0.0000**	**2.4056**	**2.4056**	**8.0000e-005**	**0.0000**	**2.4072**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0408	0.0000	0.0408	0.0169	0.0000	0.0169	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0231	0.3871	0.4566	7.1000e-004		5.6600e-003	5.6600e-003		5.3700e-003	5.3700e-003	0.0000	62.2272	62.2272	0.0201	0.0000	62.6499
Total	**0.0231**	**0.3871**	**0.4566**	**7.1000e-004**	**0.0408**	**5.6600e-003**	**0.0465**	**0.0169**	**5.3700e-003**	**0.0223**	**0.0000**	**62.2272**	**62.2272**	**0.0201**	**0.0000**	**62.6499**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-004	2.8500e-003	6.0700e-003	1.0000e-005	2.6000e-004	4.0000e-005	3.1000e-004	8.0000e-005	4.0000e-005	1.1000e-004	0.0000	0.8649	0.8649	1.0000e-005	0.0000	0.8651
Worker	5.3000e-004	8.4000e-004	7.8600e-003	2.0000e-005	1.8300e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5406	1.5406	7.0000e-005	0.0000	1.5422
Total	**9.4000e-004**	**3.6900e-003**	**0.0139**	**3.0000e-005**	**2.0900e-003**	**5.0000e-005**	**2.1600e-003**	**5.7000e-004**	**5.0000e-005**	**6.1000e-004**	**0.0000**	**2.4056**	**2.4056**	**8.0000e-005**	**0.0000**	**2.4072**

3.22 Asphalt Paving P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0289	0.2652	0.2442	3.5000e-004		0.0171	0.0171		0.0159	0.0159	0.0000	29.9127	29.9127	8.9400e-003	0.0000	30.1004
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0403**	**0.2652**	**0.2442**	**3.5000e-004**		**0.0171**	**0.0171**		**0.0159**	**0.0159**	**0.0000**	**29.9127**	**29.9127**	**8.9400e-003**	**0.0000**	**30.1004**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	1.9300e-003	0.0181	5.0000e-005	4.5700e-003	3.0000e-005	4.6100e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.5434	3.5434	1.7000e-004	0.0000	3.5470
Total	**1.2200e-003**	**1.9300e-003**	**0.0181**	**5.0000e-005**	**4.5700e-003**	**3.0000e-005**	**4.6100e-003**	**1.2200e-003**	**3.0000e-005**	**1.2500e-003**	**0.0000**	**3.5434**	**3.5434**	**1.7000e-004**	**0.0000**	**3.5470**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0117	0.1965	0.2516	3.5000e-004		2.8300e-003	2.8300e-003		2.8300e-003	2.8300e-003	0.0000	29.9127	29.9127	8.9400e-003	0.0000	30.1003
Paving	0.0114					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0231**	**0.1965**	**0.2516**	**3.5000e-004**		**2.8300e-003**	**2.8300e-003**		**2.8300e-003**	**2.8300e-003**	**0.0000**	**29.9127**	**29.9127**	**8.9400e-003**	**0.0000**	**30.1003**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	1.9300e-003	0.0181	5.0000e-005	4.2200e-003	3.0000e-005	4.2500e-003	1.1300e-003	3.0000e-005	1.1600e-003	0.0000	3.5434	3.5434	1.7000e-004	0.0000	3.5470
Total	**1.2200e-003**	**1.9300e-003**	**0.0181**	**5.0000e-005**	**4.2200e-003**	**3.0000e-005**	**4.2500e-003**	**1.1300e-003**	**3.0000e-005**	**1.1600e-003**	**0.0000**	**3.5434**	**3.5434**	**1.7000e-004**	**0.0000**	**3.5470**

3.23 Architectural Coating P4 - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0134					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0101	0.0110	2.0000e-005		6.7000e-004	6.7000e-004		6.7000e-004	6.7000e-004	0.0000	1.5320	1.5320	1.2000e-004	0.0000	1.5344
Total	**0.0148**	**0.0101**	**0.0110**	**2.0000e-005**		**6.7000e-004**	**6.7000e-004**		**6.7000e-004**	**6.7000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.2000e-004**	**0.0000**	**1.5344**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.5000e-004	2.3600e-003	1.0000e-005	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4622	0.4622	2.0000e-005	0.0000	0.4627
Total	**1.6000e-004**	**2.5000e-004**	**2.3600e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.0000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.4622**	**0.4622**	**2.0000e-005**	**0.0000**	**0.4627**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0134					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	8.1400e-003	0.0110	2.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.5320	1.5320	1.2000e-004	0.0000	1.5344
Total	**0.0137**	**8.1400e-003**	**0.0110**	**2.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**1.5320**	**1.5320**	**1.2000e-004**	**0.0000**	**1.5344**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.5000e-004	2.3600e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4622	0.4622	2.0000e-005	0.0000	0.4627
Total	**1.6000e-004**	**2.5000e-004**	**2.3600e-003**	**1.0000e-005**	**5.5000e-004**	**0.0000**	**5.5000e-004**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**0.4622**	**0.4622**	**2.0000e-005**	**0.0000**	**0.4627**

Millbrae TOD 2 Construction_Mitigated

San Mateo County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating P1	0.03	0.42	0.02	0.00	0.93	0.93	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P2	0.00	0.21	0.00	0.00	0.85	0.85	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P3	0.01	0.04	-0.01	0.00	0.82	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P4	0.06	0.04	-0.01	0.00	0.82	0.82	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving P2	0.25	0.30	-0.02	0.00	0.85	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving P4	0.33	0.11	-0.05	0.00	0.77	0.75	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P2	0.66	0.46	0.12	0.00	0.92	0.92	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P3	0.59	0.33	-0.06	0.00	0.90	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction P2	0.09	0.11	-0.00	0.00	0.40	0.38	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction P3	0.18	0.09	-0.03	0.00	0.45	0.43	0.00	0.00	0.00	0.00	0.00	0.00
Demolition P1	0.49	0.35	0.15	0.00	0.68	0.67	0.00	0.00	0.00	0.00	0.00	0.00
Demolition P2	0.52	0.37	0.17	0.00	0.69	0.68	0.00	0.00	0.00	0.00	0.00	0.00
Demolition P4	0.43	0.21	0.08	0.00	0.61	0.60	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading P1	0.66	0.52	0.17	0.00	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Fine Grading P4	0.49	0.18	-0.09	0.00	0.75	0.74	0.00	0.00	0.00	0.00	0.00	0.00
Grading Pile Driver P2	0.60	0.42	-0.15	0.00	0.91	0.90	0.00	0.00	0.00	0.00	0.00	0.00
Mass Grading P2	0.66	0.52	0.17	0.00	0.83	0.83	0.00	0.00	0.00	0.00	0.00	0.00
Paving P1	0.46	0.47	0.02	0.00	0.89	0.89	0.00	0.00	0.00	0.00	0.00	0.00

Trenching P1	0.70	0.44	0.02	0.00	0.91	0.91	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P2	0.70	0.44	0.02	0.00	0.92	0.91	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P3	0.60	0.24	-0.01	0.00	0.87	0.86	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P4	0.47	-0.03	-0.04	0.00	0.78	0.77	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 3	4	4	Level 3	0.00
Cement and Mortar Mixers	Diesel	No Change	0	12	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	3	No Change	0.00
Cranes	Diesel	Tier 3	2	2	Level 3	0.00
Excavators	Diesel	Tier 3	6	6	Level 3	0.00
Forklifts	Diesel	Tier 3	4	4	Level 3	0.00
Generator Sets	Diesel	No Change	0	0	No Change	0.00
Graders	Diesel	Tier 3	3	3	Level 3	0.00
Other Construction Equipment	Diesel	Tier 3	1	1	Level 3	0.00
Pavers	Diesel	Tier 3	3	3	Level 3	0.00
Paving Equipment	Diesel	Tier 3	6	6	Level 3	0.00
Rollers	Diesel	Tier 3	3	3	Level 3	0.00
Rubber Tired Dozers	Diesel	Tier 3	3	6	Level 3	0.00
Scrapers	Diesel	Tier 3	6	6	Level 3	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 3	28	28	Level 3	0.00
Welders	Diesel	No Change	0	6	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.14200E-002	7.78600E-002	8.25900E-002	1.30000E-004	5.32000E-003	5.32000E-003	0.00000E+000	1.14896E+001	1.14896E+001	9.30000E-004	0.00000E+000	1.15091E+001
Cement and Mortar Mixers	7.54000E-003	4.72900E-002	3.95800E-002	9.00000E-005	1.86000E-003	1.86000E-003	0.00000E+000	5.88122E+000	5.88122E+000	6.10000E-004	0.00000E+000	5.89404E+000

Cranes	4.92000E-002	5.96060E-001	4.15290E-001	7.20000E-004	2.40000E-002	2.20800E-002	0.00000E+000	6.45979E+001	6.45979E+001	2.05900E-002	0.00000E+000	6.50302E+001
Excavators	4.58100E-002	5.11190E-001	4.36650E-001	6.80000E-004	2.51200E-002	2.31100E-002	0.00000E+000	6.30990E+001	6.30990E+001	1.92500E-002	0.00000E+000	6.35032E+001
Forklifts	1.53850E-001	1.56527E+000	1.27417E+000	1.87000E-003	8.51900E-002	7.83800E-002	0.00000E+000	1.68440E+002	1.68440E+002	5.31400E-002	0.00000E+000	1.69555E+002
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	6.21200E-002	6.27990E-001	3.19360E-001	4.10000E-004	3.52500E-002	3.24300E-002	0.00000E+000	3.84111E+001	3.84111E+001	1.17200E-002	0.00000E+000	3.86571E+001
Other Construction Equipment	1.65500E-002	2.19110E-001	1.22540E-001	2.70000E-004	8.06000E-003	7.42000E-003	0.00000E+000	2.51069E+001	2.51069E+001	7.60000E-003	0.00000E+000	2.52665E+001
Pavers	1.17200E-002	1.10800E-001	9.00500E-002	1.20000E-004	8.02000E-003	7.38000E-003	0.00000E+000	1.08939E+001	1.08939E+001	3.44000E-003	0.00000E+000	1.09662E+001
Paving Equipment	1.55500E-002	1.49850E-001	1.37250E-001	1.90000E-004	1.00300E-002	9.23000E-003	0.00000E+000	1.67734E+001	1.67734E+001	5.30000E-003	0.00000E+000	1.68847E+001
Rollers	8.95000E-003	8.78400E-002	7.64400E-002	1.00000E-004	5.74000E-003	5.28000E-003	0.00000E+000	9.44111E+000	9.44111E+000	2.98000E-003	0.00000E+000	9.50374E+000
Rubber Tired Dozers	1.60030E-001	1.76591E+000	1.34788E+000	1.23000E-003	8.19400E-002	7.53800E-002	0.00000E+000	1.14352E+002	1.14352E+002	3.50300E-002	0.00000E+000	1.15088E+002
Scrapers	1.67450E-001	2.09958E+000	1.33163E+000	1.94000E-003	8.43800E-002	7.76300E-002	0.00000E+000	1.80749E+002	1.80749E+002	5.51400E-002	0.00000E+000	1.81907E+002
Tractors/Loaders/Backhoes	2.40190E-001	2.35239E+000	2.13412E+000	2.84000E-003	1.65380E-001	1.52150E-001	0.00000E+000	2.58309E+002	2.58309E+002	8.07800E-002	0.00000E+000	2.60006E+002
Welders	5.91810E-001	2.39861E+000	2.67252E+000	3.75000E-003	1.50480E-001	1.50480E-001	0.00000E+000	2.76193E+002	2.76193E+002	4.81800E-002	0.00000E+000	2.77205E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	2.67000E-003	6.10600E-002	8.24600E-002	1.30000E-004	6.40000E-004	6.40000E-004	0.00000E+000	1.14896E+001	1.14896E+001	9.30000E-004	0.00000E+000	1.15091E+001
Cement and Mortar Mixers	7.54000E-003	4.72900E-002	3.95800E-002	9.00000E-005	1.86000E-003	1.86000E-003	0.00000E+000	5.88121E+000	5.88121E+000	6.10000E-004	0.00000E+000	5.89403E+000
Cranes	1.78200E-002	3.44440E-001	3.86010E-001	7.20000E-004	1.96000E-003	1.96000E-003	0.00000E+000	6.45978E+001	6.45978E+001	2.05900E-002	0.00000E+000	6.50301E+001
Excavators	1.66700E-002	3.22230E-001	5.13900E-001	6.80000E-004	2.33000E-003	2.33000E-003	0.00000E+000	6.30989E+001	6.30989E+001	1.92500E-002	0.00000E+000	6.35031E+001
Forklifts	4.60300E-002	8.89960E-001	1.41933E+000	1.87000E-003	6.44000E-003	6.44000E-003	0.00000E+000	1.68439E+002	1.68439E+002	5.31400E-002	0.00000E+000	1.69555E+002
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	9.97000E-003	1.92660E-001	3.07260E-001	4.10000E-004	1.40000E-003	1.40000E-003	0.00000E+000	3.84110E+001	3.84110E+001	1.17200E-002	0.00000E+000	3.86571E+001
Other Construction Equipment	6.54000E-003	1.26440E-001	1.41700E-001	2.70000E-004	7.20000E-004	7.20000E-004	0.00000E+000	2.51068E+001	2.51068E+001	7.60000E-003	0.00000E+000	2.52664E+001
Pavers	2.99000E-003	6.83700E-002	9.23300E-002	1.20000E-004	7.20000E-004	7.20000E-004	0.00000E+000	1.08939E+001	1.08939E+001	3.44000E-003	0.00000E+000	1.09662E+001
Paving Equipment	4.58000E-003	1.04490E-001	1.41100E-001	1.90000E-004	1.10000E-003	1.10000E-003	0.00000E+000	1.67734E+001	1.67734E+001	5.30000E-003	0.00000E+000	1.68847E+001
Rollers	2.57000E-003	5.87700E-002	7.93600E-002	1.00000E-004	6.20000E-004	6.20000E-004	0.00000E+000	9.44110E+000	9.44110E+000	2.98000E-003	0.00000E+000	9.50373E+000
Rubber Tired Dozers	9.49700E-002	1.17218E+000	9.98080E-001	1.23000E-003	4.26100E-002	3.93400E-002	0.00000E+000	1.14352E+002	1.14352E+002	3.50300E-002	0.00000E+000	1.15088E+002

Scrapers	4.77400E-002	9.22950E-001	1.03434E+000	1.94000E-003	5.25000E-003	5.25000E-003	0.00000E+000	1.80749E+002	1.80749E+002	5.51400E-002	0.00000E+000	1.81907E+002
Tractors/Loaders/Backhoes	6.94200E-002	1.58505E+000	2.14040E+000	2.84000E-003	1.66600E-002	1.66600E-002	0.00000E+000	2.58309E+002	2.58309E+002	8.07800E-002	0.00000E+000	2.60005E+002
Welders	5.91810E-001	2.39861E+000	2.67252E+000	3.75000E-003	1.50480E-001	1.50480E-001	0.00000E+000	2.76193E+002	2.76193E+002	4.81800E-002	0.00000E+000	2.77205E+002

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	7.66200E-001	2.15772E-001	1.57404E-003	0.00000E+000	8.79699E-001	8.79699E-001	0.00000E+000	8.70349E-007	8.70349E-007	0.00000E+000	0.00000E+000	8.68877E-007
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.70033E-006	1.70033E-006	0.00000E+000	0.00000E+000	1.69663E-006
Cranes	6.37805E-001	4.22139E-001	7.05049E-002	0.00000E+000	9.18333E-001	9.11232E-001	0.00000E+000	1.23843E-006	1.23843E-006	0.00000E+000	0.00000E+000	1.23020E-006
Excavators	6.36106E-001	3.69647E-001	-1.76915E-001	0.00000E+000	9.07245E-001	8.99178E-001	0.00000E+000	1.10937E-006	1.10937E-006	0.00000E+000	0.00000E+000	1.25978E-006
Forklifts	7.00812E-001	4.31434E-001	-1.13925E-001	0.00000E+000	9.24404E-001	9.17836E-001	0.00000E+000	1.18737E-006	1.18737E-006	0.00000E+000	0.00000E+000	1.17956E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Graders	8.39504E-001	6.93212E-001	3.78883E-002	0.00000E+000	9.60284E-001	9.56830E-001	0.00000E+000	1.30171E-006	1.30171E-006	0.00000E+000	0.00000E+000	1.03474E-006
Other Construction Equipment	6.04834E-001	4.22938E-001	-1.56357E-001	0.00000E+000	9.10670E-001	9.02965E-001	0.00000E+000	1.19489E-006	1.19489E-006	0.00000E+000	0.00000E+000	1.18735E-006
Pavers	7.44881E-001	3.82942E-001	-2.53193E-002	0.00000E+000	9.10224E-001	9.02439E-001	0.00000E+000	9.17946E-007	9.17946E-007	0.00000E+000	0.00000E+000	9.11896E-007
Paving Equipment	7.05466E-001	3.02703E-001	-2.80510E-002	0.00000E+000	8.90329E-001	8.80823E-001	0.00000E+000	1.19236E-006	1.19236E-006	0.00000E+000	0.00000E+000	1.18451E-006
Rollers	7.12849E-001	3.30943E-001	-3.81999E-002	0.00000E+000	8.91986E-001	8.82576E-001	0.00000E+000	1.05920E-006	1.05920E-006	0.00000E+000	0.00000E+000	1.05222E-006
Rubber Tired Dozers	4.06549E-001	3.36218E-001	2.59519E-001	0.00000E+000	4.79985E-001	4.78111E-001	0.00000E+000	1.13684E-006	1.13684E-006	0.00000E+000	0.00000E+000	1.21646E-006
Scrapers	7.14900E-001	5.60412E-001	2.23253E-001	0.00000E+000	9.37781E-001	9.32372E-001	0.00000E+000	1.21716E-006	1.21716E-006	0.00000E+000	0.00000E+000	1.20941E-006
Tractors/Loaders/Backhoes	7.10979E-001	3.26196E-001	-2.94266E-003	0.00000E+000	8.99262E-001	8.90503E-001	0.00000E+000	1.20011E-006	1.20011E-006	0.00000E+000	0.00000E+000	1.19228E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15861E-006	1.15861E-006	0.00000E+000	0.00000E+000	1.19045E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	9.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating P1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P1	Roads	0.00	0.00	0.00	0.00	0.07	0.08
Architectural Coating P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P2	Roads	0.02	0.01	0.02	0.01	0.08	0.07
Architectural Coating P3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P3	Roads	0.00	0.00	0.00	0.00	0.08	0.05
Architectural Coating P4	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating P4	Roads	0.00	0.00	0.00	0.00	0.08	0.06
Asphalt Paving P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving P2	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Asphalt Paving P4	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Paving P4	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Building Construction Crane P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P2	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction Crane P3	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Building Construction P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction P2	Roads	1.58	0.43	1.46	0.40	0.08	0.07
Building Construction P3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction P3	Roads	0.09	0.02	0.08	0.02	0.07	0.07
Demolition P1	Fugitive Dust	0.02	0.00	0.01	0.00	0.57	0.57
Demolition P1	Roads	0.00	0.00	0.00	0.00	0.07	0.08
Demolition P2	Fugitive Dust	0.01	0.00	0.01	0.00	0.57	0.57
Demolition P2	Roads	0.00	0.00	0.00	0.00	0.07	0.06
Demolition P4	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.57
Demolition P4	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Fine Grading P1	Fugitive Dust	0.19	0.08	0.08	0.03	0.57	0.57
Fine Grading P1	Roads	0.00	0.00	0.00	0.00	0.07	0.07
Fine Grading P4	Fugitive Dust	0.10	0.04	0.04	0.02	0.57	0.57
Fine Grading P4	Roads	0.00	0.00	0.00	0.00	0.08	0.07
Grading Pile Driver P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading Pile Driver P2	Roads	0.00	0.00	0.00	0.00	0.08	0.06
Mass Grading P2	Fugitive Dust	0.29	0.12	0.12	0.05	0.57	0.57
Mass Grading P2	Roads	0.01	0.00	0.01	0.00	0.08	0.07
Paving P1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving P1	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Trenching P1	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P1	Roads	0.00	0.00	0.00	0.00	0.07	0.05
Trenching P2	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P2	Roads	0.00	0.00	0.00	0.00	0.07	0.10
Trenching P3	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P3	Roads	0.00	0.00	0.00	0.00	0.07	0.10
Trenching P4	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching P4	Roads	0.00	0.00	0.00	0.00	0.07	0.10

TOD #2 CalEEMod Operation

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Millbrae TOD 2 Operation

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	164.54	1000sqft	0.00	164,535.00	0
Enclosed Parking with Elevator	351.25	1000sqft	2.06	351,251.00	0
Other Asphalt Surfaces	3.04	Acre	3.04	0.00	0
Other Non-Asphalt Surfaces	0.64	Acre	0.64	0.00	0
Parking Lot	5.65	Acre	5.65	246,000.00	0
Hotel	116.00	Room	0.47	55,440.00	0
Apartments Mid Rise	321.00	Dwelling Unit	2.08	321,293.00	0
Strip Mall	46.94	1000sqft	2.20	46,935.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided by the Applicant.

Vehicle Trips - Based on F&P's traffic data and ITE Trip General Manual.

Woodstoves - 100% gas fireplace.

Area Coating - Based on information provided by the Applicant.

Water And Wastewater - Based on WSA by GHD April 2015

Solid Waste - Waste generation rates provided in Section 5.15.4 of Chapter 5.15, Utilities and Service Systmes, of the DEIR.

Energy Mitigation -

Water Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	29.93
tblAreaCoating	Area_Nonresidential_Interior	938312	419204
tblAreaCoating	Area_Residential_Exterior	216873	108436
tblAreaCoating	Area_Residential_Interior	650618	618087
tblFireplaces	NumberGas	176.55	321.00
tblFireplaces	NumberNoFireplace	99.51	0.00
tblFireplaces	NumberWood	44.94	0.00
tblLandUse	LandUseSquareFeet	164,540.00	164,535.00
tblLandUse	LandUseSquareFeet	351,250.00	351,251.00
tblLandUse	LandUseSquareFeet	132,422.40	0.00
tblLandUse	LandUseSquareFeet	27,878.40	0.00
tblLandUse	LandUseSquareFeet	246,114.00	246,000.00
tblLandUse	LandUseSquareFeet	168,432.00	55,440.00

tblLandUse	LandUseSquareFeet	321,000.00	321,293.00
tblLandUse	LandUseSquareFeet	46,940.00	46,935.00
tblLandUse	LotAcreage	3.78	0.00
tblLandUse	LotAcreage	8.06	2.06
tblLandUse	LotAcreage	3.87	0.47
tblLandUse	LotAcreage	8.45	2.08
tblLandUse	LotAcreage	1.08	2.20
tblLandUse	Population	918.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2020
tblSolidWaste	SolidWasteGenerationRate	147.66	543.00
tblSolidWaste	SolidWasteGenerationRate	153.02	861.00
tblSolidWaste	SolidWasteGenerationRate	63.51	861.00
tblSolidWaste	SolidWasteGenerationRate	49.29	861.00
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CC_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	10.09
tblVehicleTrips	CNW_TL	7.30	10.09

tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	CW_TL	9.50	10.09
tblVehicleTrips	HO_TL	5.40	10.09
tblVehicleTrips	HS_TL	4.30	10.09
tblVehicleTrips	HW_TL	12.40	10.09
tblVehicleTrips	ST_TR	7.16	4.71
tblVehicleTrips	ST_TR	2.37	1.80
tblVehicleTrips	ST_TR	8.19	5.42
tblVehicleTrips	ST_TR	42.04	86.57
tblVehicleTrips	SU_TR	6.07	4.32
tblVehicleTrips	SU_TR	0.98	0.77
tblVehicleTrips	SU_TR	5.95	3.94
tblVehicleTrips	SU_TR	20.43	42.07
tblVehicleTrips	WD_TR	6.59	4.90
tblVehicleTrips	WD_TR	11.01	8.07
tblVehicleTrips	WD_TR	8.17	5.41
tblVehicleTrips	WD_TR	44.32	91.27
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00

tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	20,914,442.22	21,792,690.00
tblWater	IndoorWaterUseRate	29,244,310.89	6,005,345.00
tblWater	IndoorWaterUseRate	2,942,545.32	8,468,000.00
tblWater	IndoorWaterUseRate	3,476,964.16	20,062,590.00
tblWater	OutdoorWaterUseRate	13,185,191.84	0.00
tblWater	OutdoorWaterUseRate	17,923,932.48	901,185.00
tblWater	OutdoorWaterUseRate	326,949.48	1,270,200.00
tblWater	OutdoorWaterUseRate	2,131,042.55	3,009,790.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.0149	0.0293	2.4921	4.3000e-004		0.0296	0.0296		0.0296	0.0296	2.0584	19.3379	21.3962	0.0138	2.8000e-004	21.7726
Energy	0.0459	0.4091	0.2893	2.5000e-003		0.0317	0.0317		0.0317	0.0317	0.0000	2,513.3610	2,513.3610	0.1018	0.0276	2,524.0528
Mobile	3.1554	5.9976	31.6736	0.0854	6.4598	0.0907	6.5505	1.7326	0.0837	1.8164	0.0000	5,891.932	5,891.9321	0.2321	0.0000	5,896.806
Waste						0.0000	0.0000		0.0000	0.0000	634.5498	0.0000	634.5498	37.5008	0.0000	1,422.066
Water						0.0000	0.0000		0.0000	0.0000	19.9292	93.9436	113.8727	0.0728	0.0442	129.1101
Total	**8.2163**	**6.4359**	**34.4550**	**0.0883**	**6.4598**	**0.1520**	**6.6119**	**1.7326**	**0.1451**	**1.8777**	**656.5373**	**8,518.5745**	**9,175.1117**	**37.9213**	**0.0721**	**9,993.8085**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.0149	0.0293	2.4921	4.3000e-004		0.0296	0.0296		0.0296	0.0296	2.0584	19.3379	21.3962	0.0138	2.8000e-004	21.7726
Energy	0.0360	0.3202	0.2257	1.9600e-003		0.0248	0.0248		0.0248	0.0248	0.0000	2,227.3122	2,227.3122	0.0914	0.0240	2,236.6824
Mobile	3.1554	5.9976	31.6736	0.0854	6.4598	0.0907	6.5505	1.7326	0.0837	1.8164	0.0000	5,891.932	5,891.9321	0.2321	0.0000	5,896.806
Waste						0.0000	0.0000		0.0000	0.0000	634.5498	0.0000	634.5498	37.5008	0.0000	1,422.066
Water						0.0000	0.0000		0.0000	0.0000	15.9433	75.8881	91.8315	0.0580	0.0353	103.9987
Total	**8.2063**	**6.3470**	**34.3914**	**0.0878**	**6.4598**	**0.1451**	**6.6050**	**1.7326**	**0.1382**	**1.8708**	**652.5514**	**8,214.4703**	**8,867.0217**	**37.8961**	**0.0596**	**9,681.3268**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.12**	**1.38**	**0.18**	**0.61**	**0.00**	**4.53**	**0.10**	**0.00**	**4.74**	**0.37**	**0.61**	**3.57**	**3.36**	**0.07**	**17.28**	**3.13**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated	3.1554	5.9976	31.6736	0.0854	6.4598	0.0907	6.5505	1.7326	0.0837	1.8164	0.0000	5,891.9321	5,891.9321	0.2321	0.0000	5,896.8062
Mitigated	3.1554	5.9976	31.6736	0.0854	6.4598	0.0907	6.5505	1.7326	0.0837	1.8164	0.0000	5,891.932	5,891.9321	0.2321	0.0000	5,896.806

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,572.90	1,511.91	1386.72	5,013,568	5,013,568
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	1,327.84	296.17	126.70	3,030,568	3,030,568
Hotel	627.56	628.72	457.04	1,496,690	1,496,690
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	4,284.21	4,063.60	1974.77	7,945,496	7,945,496
Total	7,812.51	6,500.40	3,945.22	17,486,323	17,486,323

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.09	10.09	10.09	26.10	29.10	44.80	86	11	3
Enclosed Parking with Elevator	10.09	10.09	10.09	0.00	0.00	0.00	0	0	0
General Office Building	10.09	10.09	10.09	33.00	48.00	19.00	77	19	4
Hotel	10.09	10.09	10.09	19.40	61.60	19.00	58	38	4
Other Asphalt Surfaces	10.09	10.09	10.09	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	10.09	10.09	10.09	0.00	0.00	0.00	0	0	0
Parking Lot	10.09	10.09	10.09	0.00	0.00	0.00	0	0	0
Strip Mall	10.09	10.09	10.09	16.60	64.40	19.00	45	40	15

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.579675	0.062580	0.176542	0.113454	0.029522	0.004156	0.015653	0.004235	0.002668	0.003663	0.006650	0.000222	0.000982

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
NaturalGas Mitigated	0.0360	0.3202	0.2257	1.9600e-003		0.0248	0.0248		0.0248	0.0248	0.0000	355.8498	355.8498	6.8200e-003	6.5200e-003	358.0154
NaturalGas Unmitigated	0.0459	0.4091	0.2893	2.5000e-003		0.0317	0.0317		0.0317	0.0317	0.0000	454.4047	454.4047	8.7100e-003	8.3300e-003	457.1702
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,871.4624	1,871.4624	0.0846	0.0175	1,878.6670
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,058.9562	2,058.9562	0.0931	0.0193	2,066.8826

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.84203e+006	0.0153	0.1310	0.0557	8.4000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	151.6614	151.6614	2.9100e-003	2.7800e-003	152.5844
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	3.33842e+006	0.0180	0.1637	0.1375	9.8000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	178.1506	178.1506	3.4100e-003	3.2700e-003	179.2347
Hotel	2.10949e+006	0.0114	0.1034	0.0869	6.2000e-004		7.8600e-003	7.8600e-003		7.8600e-003	7.8600e-003	0.0000	112.5705	112.5705	2.1600e-003	2.0600e-003	113.2556
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	225288	1.2100e-003	0.0110	9.2800e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004	0.0000	12.0222	12.0222	2.3000e-004	2.2000e-004	12.0954
Total		**0.0459**	**0.4091**	**0.2893**	**2.5100e-003**		**0.0317**	**0.0317**		**0.0317**	**0.0317**	**0.0000**	**454.4048**	**454.4048**	**8.7100e-003**	**8.3300e-003**	**457.1702**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	2.54536e+006	0.0137	0.1248	0.1048	7.5000e-004		9.4800e-003	9.4800e-003		9.4800e-003	9.4800e-003	0.0000	135.8299	135.8299	2.6000e-003	2.4900e-003	136.6566
Hotel	1.68094e+006	9.0600e-003	0.0824	0.0692	4.9000e-004		6.2600e-003	6.2600e-003		6.2600e-003	6.2600e-003	0.0000	89.7014	89.7014	1.7200e-003	1.6400e-003	90.2473
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	177180	9.6000e-004	8.6900e-003	7.3000e-003	5.0000e-005		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.4550	9.4550	1.8000e-004	1.7000e-004	9.5125
Apartments Mid Rise	2.2649e+006	0.0122	0.1044	0.0444	6.7000e-004		8.4400e-003	8.4400e-003		8.4400e-003	8.4400e-003	0.0000	120.8635	120.8635	2.3200e-003	2.2200e-003	121.5991
Total		**0.0360**	**0.3202**	**0.2257**	**1.9600e-003**		**0.0248**	**0.0248**		**0.0248**	**0.0248**	**0.0000**	**355.8498**	**355.8498**	**6.8200e-003**	**6.5200e-003**	**358.0154**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.16053e+006	337.6107	0.0153	3.1600e-003	338.9104
Enclosed Parking with Elevator	2.36743e+006	688.7130	0.0311	6.4400e-003	691.3644
General Office Building	2.28375e+006	664.3678	0.0300	6.2200e-003	666.9255
Hotel	504504	146.7660	6.6400e-003	1.3700e-003	147.3310
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	216480	62.9765	2.8500e-003	5.9000e-004	63.2190
Strip Mall	544915	158.5221	7.1700e-003	1.4800e-003	159.1324
Total		**2,058.9562**	**0.0931**	**0.0193**	**2,066.8826**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.13549e+006	330.3257	0.0149	3.0900e-003	331.5974
Enclosed Parking with Elevator	2.02321e+006	588.5738	0.0266	5.5100e-003	590.8396
General Office Building	2.07767e+006	604.4168	0.0273	5.6500e-003	606.7436
Hotel	467498	136.0005	6.1500e-003	1.2700e-003	136.5240
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	216480	62.9765	2.8500e-003	5.9000e-004	63.2190
Strip Mall	512765	149.1692	6.7500e-003	1.4000e-003	149.7434
Total		**1,871.4624**	**0.0846**	**0.0175**	**1,878.6670**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Unmitigated	5.0149	0.0293	2.4921	4.3000e-004		0.0296	0.0296		0.0296	0.0296	2.0584	19.3379	21.3962	0.0138	2.8000e-004	21.7726
Mitigated	5.0149	0.0293	2.4921	4.3000e-004		0.0296	0.0296		0.0296	0.0296	2.0584	19.3379	21.3962	0.0138	2.8000e-004	21.7726

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0119	1.5400e-003	0.0943	3.1000e-004		0.0165	0.0165		0.0164	0.0164	2.0584	15.4322	17.4906	9.9200e-003	2.8000e-004	17.7866
Landscaping	0.0734	0.0277	2.3978	1.3000e-004		0.0132	0.0132		0.0132	0.0132	0.0000	3.9056	3.9056	3.8300e-003	0.0000	3.9861
Total	**5.0149**	**0.0293**	**2.4921**	**4.4000e-004**		**0.0296**	**0.0296**		**0.0296**	**0.0296**	**2.0584**	**19.3379**	**21.3962**	**0.0138**	**2.8000e-004**	**21.7726**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0119	1.5400e-003	0.0943	3.1000e-004		0.0165	0.0165		0.0164	0.0164	2.0584	15.4322	17.4906	9.9200e-003	2.8000e-004	17.7866
Landscaping	0.0734	0.0277	2.3978	1.3000e-004		0.0132	0.0132		0.0132	0.0132	0.0000	3.9056	3.9056	3.8300e-003	0.0000	3.9861
Total	**5.0149**	**0.0293**	**2.4921**	**4.4000e-004**		**0.0296**	**0.0296**		**0.0296**	**0.0296**	**2.0584**	**19.3379**	**21.3962**	**0.0138**	**2.8000e-004**	**21.7726**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Unmitigated	113.8727	0.0728	0.0442	129.1101
Mitigated	91.8315	0.0580	0.0353	103.9987

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	21.7927 / 0	42.0146	0.0281	0.0171	47.9019
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	6.00535 / 0.901185	12.4954	7.7800e-003	4.7200e-003	14.1213
Hotel	8.468 / 1.2702	17.6190	0.0110	6.6500e-003	19.9116
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	20.0626 / 3.00979	41.7437	0.0260	0.0158	47.1753
Total		**113.8727**	**0.0728**	**0.0442**	**129.1100**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	17.4342 / 0	33.6117	0.0224	0.0137	38.3117
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	4.80428 / 0.846213	10.1239	6.2000e-003	3.7700e-003	11.4224
Hotel	6.7744 / 1.19272	14.2749	8.7400e-003	5.3100e-003	16.1059
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	16.0501 / 2.82619	33.8209	0.0207	0.0126	38.1588
Total		**91.8314**	**0.0580**	**0.0353**	**103.9987**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	634.5498	37.5008	0.0000	1,422.0669
Unmitigated	634.5498	37.5008	0.0000	1,422.0669

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	543	110.2241	6.5141	0.0000	247.0193
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	861	174.7752	10.3289	0.0000	391.6825
Hotel	861	174.7752	10.3289	0.0000	391.6825
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	861	174.7752	10.3289	0.0000	391.6825
Total		**634.5498**	**37.5008**	**0.0000**	**1,422.0669**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	543	110.2241	6.5141	0.0000	247.0193
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	861	174.7752	10.3289	0.0000	391.6825
Hotel	861	174.7752	10.3289	0.0000	391.6825
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	861	174.7752	10.3289	0.0000	391.6825
Total		**634.5498**	**37.5008**	**0.0000**	**1,422.0669**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Vegetation

Millbrae TOD 2 Operation

San Mateo County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.11	9.11	9.11	9.09	9.11
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	21.68	21.72	21.98	21.91	21.71	21.71	0.00	21.69	21.69	21.70	21.73	21.69
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	19.22	19.36	20.36	20.13	19.45
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation Selected	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.23	0.53		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			
No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.00			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"				
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program				
	Commute	Commute Subtotal	0.00			
No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.00			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
Yes	Use Low VOC Paint (Non-residential Exterior)	29.93
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	25.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

TOD 2: CalEEMod Land Use Inputs - Buildout

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Multifam	321	DU	2.08	321,293
Recreational	Hotel	116	DU	0.47	55,440
Retail	Strip Mall	46.935	1000bsf	2.20	46,935
Commercial	General Office	164.54	1000bsf	0.00	164,535
Parking	Parking Lot	5.6474	acre	5.65	246,000
Parking	Parking Structure - Elevator	351.251	1000BSF	2.06	351,251
Parking	Other Asphalt Surfaces	3.0441	Acre	3.04	0.0000
Parking	other non-asphalt surfaces	0.6403	acre	0.64	0.0000
				16.14	1,185,454

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	2020
Land Use Setting	Urban
Utility Company	PG&E

Land Uses	Office SF	Retail SF	Residential	Hotel Rooms	Population	Population w/Temp. Res.	Employees
TOD #2	164,535	46,935	321	116	851	1,083	868
Persons/Unit	2.65	Persons/Room	2.00				

U.S. Census Bureau's 2005-2009 American Community Survey 5 year estimates. Temporary residents associated with the hotel are estimated at an average of 2 persons per room.

Employment Factors

Office	250 SQFT/Employee		Industrial	1,000 SQFT/Employee
Retail	400 SQFT/Employee		Hotel	1.25 Room/Employee

Trip Generation:

Residential

321.00	dwelling units (DU)
4.90	trips/DU
1,574	Average Daily Trips (ADT)*

Retail

46.94	1000bsf
91.27	trips/1000bsf
4,284	Average Daily Trips (ADT)*

Hotel

116.00	DU
5.41	trips/room
628	Average Daily Trips (ADT)*

Office

164.54	1000bsf
8.07	trips/1000bsf
1,328	Average Daily Trips (ADT)*

Total Average Daily Trips: 7,813

Land Use	Calculated Weekday Trip Rate	ITE Trip Rate*	Adjusted Saturday and Sunday Trip Rate	ITE Saturday Trip Rate*	ITE Sunday Trip Rate*	Adjusted Saturday Trip Rate	Adjusted Sunday Trip Rate
Residential	4.90	6.65	*73.72%*	6.39	5.86	4.71	4.32
Hotel	5.41	8.17	*66.22%*	8.19	5.95	5.42	3.94
Retail	91.27	44.32	*205.93%*	42.04	20.43	86.57	42.07
Office	8.07	11.03	*73.17%*	2.46	1.05	1.80	0.77

**Source: ITE Trip Generation Manual, 9th Edition.*

Average Trip Length: **10.09** miles per trip

Water Use

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

Total Water Demand*

Land Use Type	Water Demand (gpd)	Water Demand (gpy)
Office	18,922	6,906,530
Retail	3,239	1,182,235
Restaurants	59,973	21,890,145
Hotel	26,680	9,738,200
Residential Units	59,706	21,792,690
TOTAL	**168,520**	**61,509,800**

Wastewater

Land Use	Wastewater (gpd)	Wastewater (gpy)
Office	16,453	6,005,345
Retail	2,816	1,027,840
Restaurants	52,150	19,034,750
Hotel	23,200	8,468,000
Residential Units	59,706	21,792,690
TOTAL	**154,325**	**56,328,625**

**WSA by GHD April 2015*

CalEEMod Inputs

Land Use	Indoor Water Use (gpy)	Outdoor Water Use (gpy)
General Office	6,005,345	901,185
Strip Mall*	20,062,590	3,009,790
Hotel	8,468,000	1,270,200
Multifam	21,792,690	0
TOTAL	**56,328,625**	**5,181,175**

**Includes restaurant wastewater generation of 19,034,750 gpy*

Solid Waste*

Res. Solid Waste Rate	3.5	lbs per day per resident
Non-Res. Average Waste Rate	16.3	lbs per day per employee

Land Uses	**Population**	**Solid Waste (lbs/day)**	**Solid Waste (tons/day)**	**Solid Waste (tons/yr)**
Residents	851	2,977	1	543
Employees	868	14,153	7	2,583
TOTALs		**17,130**	**9**	**3,126**

*Waste generation rates provided in Section 5.15.4 of Chapter 5.15, Utilities and Service Systmes, of the DEIR.

CalEEMod Inputs

Land Uses		**Solid Waste (tons/yr)**
Multifam		*543*
	subtotal	543
Hotel		*861*
Strip Mall		*861*
General Office		*861*
	subtotal	2,583
	TOTALs	**3,126**

Energy Use

All new buildings would be built to meet the 2013 Building Energy Efficiency Standards which are 25% and 30% more energy efficient for residential and non-residential buildings, respectively, compared to the 2008 Building Energy Efficiency Standards. For purposes of modeling, it is assumed all buildings would be 25% more energy efficient.

Area - Hearths

0%	Woodstoves
0%	Wood Fireplace
100%	Gas Fireplace

Since the residences are apartments, they are unlikely to install wood fireplaces.

Water Mitigation

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

	Paintable Interior Area	Paintable Exterior Area
Residential	618,087	108,436
Non-Residential	419,204	62,402

TOD #2 CalEEMod Construction Run Land Use Inputs

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet	Phase
Residential	Apartments - Mid-rise	321	DU	2.08	321,293	P2
Retail	Strip Mall	41.685	1000BSF	2.08	41,685	P2
Commercial	General Office	164.535	1000BSF	0.00	164,535	P2
Recreational	Hotel	116	Room	0.47	55,440	P3
Recreational	Sit Down High Quality Restaurant	5.25	1000bsf	0.12	5,250	P3
Parking	Parking Lot	5.6474	acre	5.65	246,000	P1, P2, P3, P4
Parking	Parking Structure - Elevator	351.251	1000BSF	2.06	351,251	P2
Parking	Other Asphalt Surfaces	3.04	Acre	3.04	0	P2, P4
Parking	other non-asphalt surfaces	0.64	acre	0.64	0	P4
				16.14	1,185,454	

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	2020
Land Use Setting	Urban
Utility Company	PG&E

TOD #2 Construction Phasing - All

5-Day Work Week

Schedule as provide and verified by Applicant.

Phase Name*	Start Date	End Date	CalEEMod Days
Demolition P1	1/1/2016	1/31/2016	21
Trenching/Utilities P1	2/1/2016	2/28/2016	20
Fine Grading P1	3/1/2016	4/30/2016	44
Architectural Coating P1	5/1/2016	5/15/2016	10
Paving P1	5/1/2016	5/31/2016	22
Demolition P2	6/1/2016	6/30/2016	22
Mass Grading P2	7/1/2016	9/30/2016	66
Trenching/Utilities P2	7/1/2016	7/31/2016	21
Mass Grading - Pile Driver	8/1/2016	9/30/2016	45
Building Construction P2	10/1/2016	11/30/2018	565
Building Construction Crane Placeholder P2	1/1/2017	6/30/2017	130
Architectural Coating P2	10/1/2018	11/30/2018	45
Asphalt Paving P2	11/1/2018	11/15/2018	11
Utilties/Trenching P3	12/1/2018	12/31/2018	21
Building Construction P3	12/1/2018	7/31/2020	435
Building Construction (Crane Placeholder) P3	12/1/2018	2/28/2019	64
Architectural Coating P3	7/1/2020	7/31/2020	23
Demolition P4	7/1/2020	7/31/2020	23
Trenching/Utilities P4	8/1/2020	8/31/2020	21
Fine Grading P4	9/1/2020	9/30/2020	22
Paving P4	9/1/2020	10/31/2020	44
Painting P4	10/15/2020	10/31/2020	12

TOD #2 CalEEMod Construction Run Land Use Inputs - Buildout*

**Based on information provided by the Applicant unless otherwise noted*

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Parking	Parking Lot	2.81	acre	2.81	122,500
				2.81	acres

Project Location:	San Mateo County
Climate Zone:	5
Operation Year:	
Land Use Setting:	Urban
Utility Company:	PG&E

Land Uses

Surface Parking Lots	122,500	SF
Internal Circulation (Asphalt)	0	SF

Demolition

Asphalt Square Footage Demolished	2,227	tons
Total Haul Trips	220	trip ends (CalEEMod Default)
1-way haul distance	20	miles (CalEEMod Default)
Haul truck capacity	20	tons (CalEEMod default)

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Parking Lot	122,500	0.06	7,350	5,513	1,838
Parking Structure*	165,084	0.06	9,905	7,429	2,476
			TOTAL	**12,941**	**4,314**

[1] Applied CalEEMod Methodology in calculating total

[2] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

Construction Worker and Vendor Trips - Architectural Coating Subphases

CalEEMod Generation Rates		
*Worker Trips:**	0.084	trip/1000BSF/day
Vendor Trips:	n/a	

Subphase	Worker Trips Per Day
Architectural Coating	10

** Per CalEEMod methodology, worker trips for architectural coating is 20% of 0.42 worker trip/1,000BSF*

TOD #2 Phase 1 Construction Equipment Mix*

*Information verified by the Applicant

Type of Equipment	Pieces of Equipment	Hrs Op	HP	LF	Worker Trips/ Day	CalEEMod Vendor Trips	Total Haul Trips	1-way Haul Trip
Demolition					**Default**	**Default+4**	**Default**	**Default**
Concrete/Industrial Saws	**1**	8	**10**	**0.38**				
Rubber Tired Dozers	**1**	8	**357**	**0.40**				
Tractors/Loaders/Backhoes	**3**	8	**108**	**0.37**				
Water Truck*	**1**					**4**		
Trenching/Utilities					**Default**	**Default+4**	**Default**	**Default**
Tractors/Loaders/Backhoes	**2**	7	**108**	**0.37**				
Water Truck*	**1**					**4**		
Fine Grading					**Default**	**Default+4**	**Default**	**Default**
Excavators	**2**	8	**157**	**0.38**				
Graders	**1**	8	**174**	**0.41**				
Rubber Tired Dozers	**1**	8	**357**	**0.40**				
Scrapers	**2**	8	**356**	**0.48**				
Tractors/Loaders/Backhoes	**2**	7	**108**	**0.37**				
Water Truck*	**1**					**4**		
Paving					**Default**	**Default**	**Default**	**Default**
Cement and Mortar Mixers	**4**	6	**10**	**0.56**				
Paver	**1**	7	**100**	**0.42**				
Paving Equipment	**2**	6	**104**	**0.36**				
Rollers	**1**	7	**95**	**0.38**				
Tractors/Loaders/Backhoes	**1**	7	**108**	**0.37**				
Architectural Coating					**Default**	**Default**	**Default**	**Default**
Air Compressors	**1**	6	**78**	**0.48**				

*Assumes 4 trip ends per day.

Pavement Volume to Weight Conversion - TOD #2 Phase 1

Location	Total SF of Roadway[1]	Assumed Thickness (Foot)[2]	Parking Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf)[3]	AC Mass (lbs)	AC Mass (tons)
5B Parking Lot	126,010	0.33	42,003	45	1,890,150	945
6A Parking Lot	170,955	0.33	56,985	45	2,564,325	1,282
					Total	**2,227**

[1] As verified by the Applicant.

[2] *Pavements and Surface Materials* . Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Conneticut Cooperative Extension System, 1999.

[3] http://www.reade.com/Particle_Briefings/spec_gra2.html

TOD #2 Phase 2 CalEEMod Construction Run Land Use Inputs - Buildout*

**Based on information provided by the Applicant, unless otherwise noted.*

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Residential	Multifam	321	DU	2.08	321,293
Retail	Strip Mall	41.685	1000BSF	2.08	41,685
Commercial	General Office	164.535	1000BSF	0.00	164,535
Parking	Parking Structure - Elevator	351.25	1000BSF	2.06	351,251
Parking	Parking Lot	0.36	Acre	0.36	15,500
Parking	Other Asphalt Surfaces	2.58	Acre	2.58	0
				9.16	acres

Project Location:	San Mateo County
Climate Zone:	5
Operation Year:	
Land Use Setting:	Urban
Utility Company:	PG&E

Land Uses

	Office SF	Retail SF	Residential
TOD #2	164,535	41,685	321

5A Parking Structure	**Building Square Feet**	**Number of Parking Spaces**			
Level 1		40	Level 1 Footprint:	0.63	acre
Level 2		51			
Level 3		133			
Level 4		139			
Total	165,084	363			

5B Parking Structure	**Building Square Feet**	**Number of Parking Spaces**			
Level 1		101	Level 1 Footprint:	1.425	acre
Level 2		164			
Level 3		164			
Total	186,167	429			

Surface Parking Lots	15,500	SF
Internal Circulation (paved asphalt)	112,500	SF

Demolition

Building Square Footage Demolished	1,144	tons
Total Haul Trips	113	trip ends (CalEEMod Default)
1-way haul distance	20	miles (CalEEMod Default)
Haul truck capacity	20	tons (CalEEMod default)

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

Assumptions*	
Parking Structure Exterior Painted Area:	0%
Parking Structure Interior Painted Area:	0%
Exterior Office/Retail	20%
Interior Office/Retail:	95%
Exterior Residential	50%
Interior Residential:	95%

**Provided by the Applicant.*

Land Uses	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Residential	321,293	2.7	867,491	618,087	108,436
			Subtotal:	618,087	108,436

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Retail	41,685	2.0	83,370	59,401	4,169
Commercial	164,535	2.0	329,070	234,462	16,454
Parking Lot	15,500	0.06	930	698	233
Parking Structure[3]	351,251	0.06	21,075	15,806	5,269
			Subtotal:	310,367	26,123

[1] Applied CalEEMod Methodology in calculating total

[2] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

[3] Applied the CalEEMod methodology in calculating the paintable surface area for parking lots.

Construction Worker and Vendor Trips - Building Construction and Architectural Coating Subphases

CalEEMod Generation Rates

Land Use Type	Worker		Vendor	
Residential - Multifamilty	0.72	trip/DU/day	0.1069	trip/DU/day
Commercial/Retail	0.32	trip/1000BSF/day	0.1639	trip/1000BSF/day
Office/Parking	0.42	trip/1000BSF/day	0.1639	trip/1000BSF/day

Building Construction

Land Uses	Worker Trips Per Day	Vendor Trips/Day
Multifam	231	34
Strip Mall	13	7
General Office	69	27
Parking Structure - Elevator	148	58
Parking Lot	7	3
Other Asphalt Surfaces	47	18
Total	**515**	**147**

Architectural Coating

Land Uses	Worker Trips Per Day*
Multifam	46
Strip Mall	3
General Office	14
Parking Structure - Elevator	30
Parking Lot	1
Other Asphalt Surfaces	9
Total	**103**

** Per CalEEMod methodology, worker trips for architectural coating is 20% of building construction trips.*

TOD #2 Phase Construction Equipment Mix*

*Information verified by the Applicant

Type of Equipment	Pieces of Equipment	Hrs Op	HP*	LF*	Worker Trips/ Day	CalEEMod Vendor Trips	Total Haul Trips	1-way Haul Trip
Demolition	**Default**	**Default**			**Default**	**Default+4**	**Default**	**Default**
Concrete/Industrial Saws	**1**	8	**10**	**0.38**				
Rubber Tired Dozers	**1**	8	**357**	**0.40**				
Tractors/Loaders/Backhoes	**3**	8	**108**	**0.37**				
Water Truck*	**1**					**4**		
Mass Grading	**Default**	**Default**			**Default**	**Default+4**	**Default**	**Default**
Other Construction Equipment	**1**	8	**327**	**0.42**				
Excavators	**2**	8	**157**	**0.38**				
Graders	**1**	8	**174**	**0.41**				
Rubber Tired Dozers	**1**	8	**357**	**0.40**				
Scrapers	**2**	8	**356**	**0.48**				
Tractors/Loaders/Backhoes	**2**	7	**108**	**0.37**				
Water Truck*	**1**					**4**		
Trenching/Utilities	**Default**	**Default**			**Default**	**Default+4**	**Default**	**Default**
Tractors/Loaders/Backhoes	**2**	7	**108**	**0.37**				
Water Truck*	**1**					**4**		
Building Construction	**Default**	**Default**			**Default**	**Default**	**Default**	**Default**
Forklifts	**2**	6	**145**	**0.20**				
Tractors/Loaders/Backhoes	**1**	8	**108**	**0.37**				
Welders	**3**	8	**45**	**0.45**				
Building Construction (Crane)	**Default**	**Default**			**0**	**0**	**Default**	**Default**
Cranes	**1**	6	**399**	**0.29**				
Paving					**Default**	**Default**	**Default**	**Default**
Cement and Mortar Mixers	**4**	6	**10**	**0.56**				
Paver	**1**	7	**100**	**0.42**				
Paving Equipment	**2**	6	**104**	**0.36**				
Rollers	**1**	7	**95**	**0.38**				
Tractors/Loaders/Backhoes	**1**	7	**108**	**0.37**				
Architectural Coating	**Default**	**Default**			**Default**	**Default**	**Default**	**Default**
Air Compressors	**1**	6	**78**	**0.48**				

*Assumes 4 trip ends per day.

Pavement Volume to Weight Conversion - TOD #2 Phase 2

Location	Total SF of Roadway[1]	Assumed Thickness (Foot)[2]	Parking Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf)[3]	AC Mass (lbs)	AC Mass (tons)
Existing 5A Lot	63,125	0.33	21,042	45	946,875	473
Existing 5B Lot	37,125	0.33	12,375	45	556,875	278
Public ROWs	52,272	0.33	17424	45	784,080	392
					Total	**1,144**

[1] As verified by the Applicant.

[2] *Pavements and Surface Materials* . Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Conneticut Cooperative Extension System, 1999.

[3] http://www.reade.com/Particle_Briefings/spec_gra2.html

TOD #2 Phase 3 CalEEMod Construction Run Land Use Inputs - Buildout*

*Based on information provided the Applicant unless otherwise noted.

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Recreational	Hotel	116	DU	0.47	55,440
Recreational	Sit Down High Quality Restaurant	5.250	1000bsf	0.12	5,250
Parking	Parking Lot	0.521	acre	0.52	22,700
				1.11	acres

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	
Land Use Setting	Urban
Utility Company	PG&E

Land Uses

Hotel		
Rooms:	116	rooms
Area:	55,440	building square feet
Restaurant	5,250	BSF

Parking

Surface Parking Lot:	22,700	square feet
Internal Circulation:	0	square feet

Architectural Coating

Modeling also assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to SCAQMD Rule 1113

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Hotel	55,440	2.0	110,880	83,160	27,720
Sit Down High Quality Restaurant	5,250	2.0	10,500	7,875	2,625
Parking Lot	22,700	0.06	1,362	1,022	341
			Subtotal:	92,057	30,686

[1] Applied CalEEMod Methodology in calculating total

[2] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

Construction Worker and Vendor Trips - Building Construction and Architectural Coating Subphases

CalEEMod Generation Rates

Land Use Type	Worker		Vendor	
Restaurant/Hotel/Parking	0.42	trip/1000BSF/day	0.1639	trip/1000BSF/day

Building Construction

Land Uses	Worker Trips Per Day	Vendor Trips/Day
Hotel	23	9
Sit Down High Quality Restaurant	2	1
Parking Lot	10	4
Total	**35**	**14**

Architectural Coating

Land Uses	Worker Trips Per Day*
Hotel	5
Sit Down High Quality Restaurant	0
Parking Lot	2
Total	**7**

** Per CalEEMod methodology, worker trips for architectural coating is 20% of building construction trips.*

TOD #2 Phase 3 Construction Equipment Mix*

*Information provided/verified by the District

Type of Equipment	Pieces of Equipment	Hrs Op	HP*	LF*	Worker Trips/ Day	CalEEMod Vendor Trips	Total Haul Trips	1-way Haul Trip
Trenching/Utilities	**Default**	**Default**			**Default**	**Default+4**	**Default**	**Default**
Tractors/Loaders/Backhoes	**2**	7	**108**	**0.37**				
Water Truck	**1**					**4**		
Building Construction	**Default**	**Default**			**Default**	**Default**	**Default**	**Default**
Forklifts	**2**	6	**145**	**0.20**				
Tractors/Loaders/Backhoes	**1**	8	**108**	**0.37**				
Welders	**3**	8	**45**					
Building Construction	**Default**	**Default**			**Default**	**Default**	**Default**	**Default**
Cranes	**1**	7	**399**	**0.29**				
Architectural Coating	**Default**	**Default**			**Default**	**Default**	**Default**	**Default**
Air Compressors	**1**	6	**78**	**0.48**				

TOD #2 Phase 4 CalEEMod Construction Run Land Use Inputs - Buildout*

**Based on information provided the Applicant unless otherwise noted.*

Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Parking	Parking Lot	1.96	acre	1.96	85,300
Parking	other asphalt surfaces	0.46	acre	0.46	0
Parking	other non-asphalt surfaces	0.64	acre	0.64	0
				3.06	acres

Project Location:	San Mateo County
Climate Zone:	5
Operation Year	
Land Use Setting	Urban
Utility Company	PG&E

Surfaces

Parking Lot:	85,300	square feet
Other Asphalt Surfaces:	20,100	square feet

Demolition

*Building Square Footage Demolished**	1,890	building square feet
Total Haul Trips	9	trip ends (CalEEMod Default)
1-way haul distance	20	miles (CalEEMod Default)
Haul truck capacity	16	cubic yards (CalEEMod default)

**As measured using Google Earth.*

Architectural Coating

Modeling assumes a VOC of 100 g/L for interior paints used for non-residential buildings pursuant to BAAQMD Regulation 8, Rule 3: Architectural Coating

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor	Total Paintable Surface Area[1]	Paintable Interior Area[2]	Paintable Exterior Area[2]
Parking Lot	85,300	0.06	5,118	3,839	1,280
			Subtotal:	3,839	1,280

[1] Applied CalEEMod Methodology in calculating total

[2] CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

Construction Worker and Vendor Trips - Building Construction and Architectural Coating Subphases

CalEEMod Generation Rates

Land Use Type	Worker	
Parking	0.08	trip/1000BSF/day

Architectural Coating

Land Uses	Worker Trips Per Day
Parking Lot	7
other asphalt surfaces	2
other non-asphalt surfaces	2
Total	**11**

** Per CalEEMod methodology, worker trips for architectural coating is 20% of building construction trips. No vendor trips are associated with architectural coating.*

TOD #2 Phase 4 Construction Equipment Mix*

**Information provided/verified by the District*

Type of Equipment	Pieces of Equipment	Hrs Op	HP*	LF*	Worker Trips/ Day	CalEEMod Vendor Trips	Total Haul Trips	1-way Haul Trip
Demolition	**Default**	**Default**			**Default**	**Default+4**	**Default**	**Default**
Concrete/Industrial Saws	**1**	8	**10**	**0.73**				
Rubber Tired Dozers	**1**	8	**357**	**0.40**				
Tractors/Loaders/Backhoes	**3**	8	**108**	**0.37**				
Water Truck*	**1**					**4**		
Trenching/Utilities	**Default**	**Default**			**Default**	**Default+4**	**Default**	**Default**
Tractors/Loaders/Backhoes	**2**	7	**108**	**0.37**				
Water Truck*	**1**					**4**		
Fine Grading	**Default**	**Default**			**Default**	**Default+4**	**Default**	**Default**
Excavators	**2**	8	**157**	**0.38**				
Graders	**1**	8	**174**	**0.41**				
Rubber Tired Dozers	**1**	8	**357**	**0.40**				
Scrapers	**2**	8	**356**	**0.48**				
Tractors/Loaders/Backhoes	**2**	7	**108**	**0.37**				
Water Truck*	**1**					**4**		
Paving	**Default**	**Default**			**Default**	**Default**	**Default**	**Default**
Cement and Mortar Mixers	**4**	6	**10**	**0.56**				
Paver	**1**	7	**100**	**0.42**				
Paving Equipment	**2**	6	**104**	**0.36**				
Rollers	**1**	7	**95**	**0.38**				
Tractors/Loaders/Backhoes	**1**	7	**108**	**0.37**				
Architectural Coating	**Default**	**Default**			**Default**	**Default**	**Default**	**Default**
Air Compressors	**1**	6	**78**	**0.48**				

*Assumes 4 trip ends per day.

Traffic Data and Miscellaneous

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Master Trip Generation

Existing Land Use Trip Generation

Land Use	Daily Vehicle	Daily Transit	Daily Walk/Bike	CalEEMod Trip Rate
Residential	1471	422	54	
Retail	6183	1506	237	
Office	715	291	31	
Other	1694	872	0	
Total	**10,063**	**3,091**	**322**	

2020 Project (Site 1) Trip Generation

Land Use	Daily Vehicle	Daily Transit	Daily Walk/Bike	Trip Rate
Residential	2,415	573	85	4.83
Retail	2,542	502	94	79.42
Office	1,931	670	80	7.23
Other	0	0	0	
Total	**6,888**	**1,745**	**260**	

2020 Project (Sites 5/6) Trip Generation

Land Use	Daily Vehicle	Daily Transit	Daily Walk/Bike	Trip Rate
Residential	1,574	375	56	
Retail	4,284	846	159	
Office	1,328	461	55	
Other	628	282	0	
Total	**7,813**	**1,964**	**270**	

2040 Project (SASP Buildout) Trip Generation

Land Use	Daily Vehicle	Daily Transit	Daily Walk/Bike	Trip Rate
Residential	6,233	1,810	229	
Retail	8,295	2,021	319	
Office	6,415	2,603	279	
Other	118	61	0	
Total	**21,062**	**6,494**	**827**	

Master VMT full trip length

	Existing Land Use VMT			CalEEMod
		Daily		
	Raw	Net	Reduction %	Average Trip Length
Total	139,010	106,218	24%	10.56

	2020 Project (Site 1) VMT			
		Daily		
	Raw	Net	Reduction %	Average Trip Length
Total	87,272	69,924	20%	10.15

	2020 Project (Sites 5/6) VMT			
		Daily		
	Raw	Net	Reduction %	Average Trip Length
Total	102,229	78,847	23%	10.09

	2040 Project (SASP Buildout) VMT			
		Daily		
	Raw	Net	Reduction %	Average Trip Length
Total	295,389	206,783	30%	9.82

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NOTE:
To print data frame (right side), click on right frame before printing.

1981 - 2010

- Daily Temp. & Precip.
- Daily Tabular data (~23 KB)
- Monthly Tabular data (~1 KB)
- NCDC 1981-2010 Normals (~3 KB)

1971 - 2000

- Daily Temp. & Precip.
- Daily Tabular data (~23 KB)
- Monthly Tabular data (~1 KB)
- NCDC 1971-2000 Normals (~3 KB)

1961 - 1990

- Daily Temp. & Precip.
- Daily Tabular data (~23 KB)
- Monthly Tabular data (~1 KB)
- NCDC 1961-1990 Normals (~3 KB)

Period of Record

- Station Metadata

SAN FRANCISCO INTL AP, CALIFORNIA (047769)

Period of Record Monthly Climate Summary

Period of Record : 07/01/1945 to 01/20/2015

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	55.8	59.1	61.2	63.8	66.7	70.0	71.4	72.0	73.4	70.2	62.9	56.4	65.2
Average Min. Temperature (F)	42.6	45.0	46.2	47.7	50.2	52.8	54.1	55.0	54.8	52.1	47.4	43.3	49.3
Average Total Precipitation (in.)	4.31	3.58	2.88	1.38	0.39	0.13	0.02	0.04	0.17	1.00	2.31	3.73	19.94
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.
Max. Temp.: 99.9% Min. Temp.: 99.9% Precipitation: 99.9% Snowfall: 92.3% Snow Depth: 92.3%
Check Station Metadata or Metadata graphics for more detail about data completeness.

Western Regional Climate Center, wrcc@dri.edu

TOD #1 Construction HRA Files

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Construction Emissions - DPM and PM2.5
Input to ISCST3 Model

Onsite Construction Emissions		DPM [1]	$PM_{2.5}$ [2]
2016 Onsite Emissions	Average Daily Emissions (lbs/day)	2.27	3.15
	Average Daily Emissions (lbs/hr)	2.84E-01	3.93E-01
	Emission Rate (g/s)	3.57E-02	4.96E-02
	Modeled Area (acres)	4.35	4.35
	Modeled Area (m^2)	17,602	17,602
	Emission Rate per Area (g/s/m^2)	**2.03E-06**	**2.82E-06**
2017 Onsite Emissions	Average Daily Emissions (lbs/day)	3.30	4.04
	Average Daily Emissions (lbs/hr)	4.13E-01	5.05E-01
	Emission Rate (g/s)	5.20E-02	6.36E-02
	Modeled Area (acres)	4.35	4.35
	Modeled Area (m^2)	17,602	17,602
	Emission Rate per Area (g/s/m^2)	**2.96E-06**	**3.61E-06**
2018 Onsite Emissions	Average Daily Emissions (lbs/day)	1.69	2.07
	Average Daily Emissions (lbs/hr)	2.11E-01	2.59E-01
	Emission Rate (g/s)	2.66E-02	3.27E-02
	Modeled Area (acres)	4.35	4.35
	Modeled Area (m^2)	17,602	17,602
	Emission Rate per Area (g/s/m^2)	**1.51E-06**	**1.86E-06**
2019 Onsite Emissions	Average Daily Emissions (lbs/day)	1.25	1.19
	Average Daily Emissions (lbs/hr)	1.56E-01	1.48E-01
	Emission Rate (g/s)	1.97E-02	1.87E-02
	Modeled Area (acres)	4.35	4.35
	Modeled Area (m^2)	17,602	17,602
	Emission Rate per Area (g/s/m^2)	**1.12E-06**	**1.06E-06**

Note: Emissions assumed to be evenly distributed over entire construction phase area.

Offsite Construction Emissions		DPM [1]	$PM_{2.5}$ [2]
2016 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.08	0.21
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	1.16E-03	3.08E-03
	Emission Rate (lbs/hr)	1.46E-04	3.85E-04
	Emission Rate (g/s)	1.83E-05	4.84E-05
	Number of Sources	12	12
	Emission Rate per Source (g/s/source)	**1.53E-06**	**4.04E-06**
2017 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.11	0.32
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	1.53E-03	4.67E-03
	Emission Rate (lbs/hr)	1.91E-04	5.84E-04
	Emission Rate (g/s)	2.41E-05	7.36E-05
	Number of Sources in ISCST3 Model	12	12
	Emission Rate per Source (g/s/source)	**2.01E-06**	**6.14E-06**
2018 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.01	0.11
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	1.37E-04	1.59E-03
	Emission Rate (lbs/hr)	1.72E-05	0.000198847
	Emission Rate (g/s)	2.17E-06	2.51E-05
	Number of Sources in ISCST3 Model	12	12
	Emission Rate per Source (g/s/source)	**1.80E-07**	**2.09E-06**
2019 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.01	0.12
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	1.25E-04	1.68E-03
	Emission Rate (lbs/hr)	1.57E-05	2.10E-04
	Emission Rate (g/s)	1.97E-06	2.65E-05
	Number of Sources	12	12
	Emission Rate per Source (g/s/source)	**1.64E-07**	**2.21E-06**

Note: Emissions evenly distributed over 12 modeled volume sources.

Construction Emissions - DPM and PM2.5
Input to ISCST3 Model

	2016	2017	2018	2019
Hours per work day (7:00 AM to 4:00 PM, 1-hour lunch break)	8	8	8	8
Total calendar days per year	339	365	365	365
Scalar for HROFDY in ISCST3 model	0.93	1.00	1.00	1.00

	Demolition	Grading
Haul Length (miles)	15	15
Number of Haul Trips	193	16,273

Proportioned Hauling Length (miles)	**15**
Haul Length within 1,000 ft of Site (mile)	**0.22**

[1] DPM emissions taken as PM_{10} exhaust emissions from CalEEMod average daily emissions.

[2] $PM_{2.5}$ emissions taken as total $PM_{2.5}$ (exhaust and fugitive dust) emissions from CalEEMod average daily emissions.

[3] Emissions from CalEEMod offsite average daily emissions, which is based on haul truck trip distance of 15 miles proportioned to evaluate emissions from the **0.22**-mile route within 1,000 of the project site.

Mitigated Construction Emissions - DPM and PM2.5
Diesel Particulate Filters Level 3 (for equipment > 75 HP)
Input to ISCST3 Model

Onsite Construction Emissions - Mitigated		DPM [1]	$PM_{2.5}$ [2]
2016 Onsite Emissions	Average Daily Emissions (lbs/day)	0.23	1.29
	Average Daily Emissions (lbs/hr)	2.88E-02	1.61E-01
	Emission Rate (g/s)	3.64E-03	2.03E-02
	Modeled Area (acres)	4.35	4.35
	Modeled Area (m^2)	17,602	17,602
	Emission Rate per Area ($g/s/m^2$)	**2.07E-07**	**1.15E-06**
2017 Onsite Emissions	Average Daily Emissions (lbs/day)	0.73	1.70
	Average Daily Emissions (lbs/hr)	9.11E-02	2.12E-01
	Emission Rate (g/s)	1.15E-02	2.67E-02
	Modeled Area (acres)	4.35	4.35
	Modeled Area (m^2)	17,602	17,602
	Emission Rate per Area ($g/s/m^2$)	**6.52E-07**	**1.52E-06**
2018 Onsite Emissions	Average Daily Emissions (lbs/day)	0.59	1.08
	Average Daily Emissions (lbs/hr)	7.42E-02	1.35E-01
	Emission Rate (g/s)	9.35E-03	1.70E-02
	Modeled Area (acres)	4.35	4.35
	Modeled Area (m^2)	17,602	17,602
	Emission Rate per Area ($g/s/m^2$)	**5.31E-07**	**9.66E-07**
2019 Onsite Emissions	Average Daily Emissions (lbs/day)	0.48	0.48
	Average Daily Emissions (lbs/hr)	6.02E-02	6.02E-02
	Emission Rate (g/s)	7.58E-03	7.58E-03
	Modeled Area (acres)	4.35	4.35
	Modeled Area (m^2)	17,602	17,602
	Emission Rate per Area ($g/s/m^2$)	**4.31E-07**	**4.31E-07**

Note: Emissions assumed to be evenly distributed over entire construction phase area.

Offsite Construction Emissions - Mitigated		DPM [1]	$PM_{2.5}$ [2]
2016 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.06	0.17
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	9.01E-04	2.40E-03
	Emission Rate (lbs/hr)	1.13E-04	3.00E-04
	Emission Rate (g/s)	1.42E-05	3.78E-05
	Number of Sources	12	12
	Emission Rate per Source (g/s/source)	**1.18E-06**	**3.15E-06**
2017 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.08	0.26
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	1.19E-03	3.70E-03
	Emission Rate (lbs/hr)	1.48E-04	4.63E-04
	Emission Rate (g/s)	1.87E-05	5.83E-05
	Number of Sources in ISCST3 Model	12	12
	Emission Rate per Source (g/s/source)	**1.56E-06**	**4.86E-06**
2018 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.01	0.10
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	1.37E-04	1.49E-03
	Emission Rate (lbs/hr)	1.72E-05	0.000186653
	Emission Rate (g/s)	2.17E-06	2.35E-05
	Number of Sources in ISCST3 Model	12	12
	Emission Rate per Source (g/s/source)	**1.80E-07**	**1.96E-06**
2019 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.01	0.11
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	1.25E-04	1.57E-03
	Emission Rate (lbs/hr)	1.57E-05	1.96E-04
	Emission Rate (g/s)	1.97E-06	2.47E-05
	Number of Sources	12	12
	Emission Rate per Source (g/s/source)	**1.64E-07**	**2.06E-06**

Note: Emissions evenly distributed over 12 modeled volume sources.

Mitigated Construction Emissions - DPM and PM2.5
Diesel Particulate Filters Level 3 (for equipment > 75 HP)
Input to ISCST3 Model

	2016	2017	2018	2019
Hours per work day (7:00 AM to 4:00 PM, 1-hour lunch break)	8	8	8	8
Total calendar days per year	339	365	365	365
Scalar for HROFDY in ISCST3 model	0.93	1.00	1.00	1.00

	Demolition	Grading
Haul Length (miles)	15	15
Number of Haul Trips	193	16273
Proportioned Hauling Length (miles)	**15**	
Haul Length within 1,000 ft of Site (mile)	**0.22**	

[1] DPM emissions taken as PM_{10} exhaust emissions from CalEEMod average daily emissions.

[2] $PM_{2.5}$ emissions taken as total $PM_{2.5}$ (exhaust and fugitive dust) emissions from CalEEMod average daily emissions.

[3] Emissions from CalEEMod offsite average daily emissions, which is based on haul truck trip distance of 15 miles proportioned to evaluate emissions from the **0.22**-mile route within 1,000 of the project site.

Construction Risk Assessment Emissions Worksheet - TOD #1

Total Construction Workdays:

2016	239	days
2017	260	days
2018	261	days
2019	261	days

Onsite Emissions

Tons/Year	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.27123	0.37604
2017	0.42935	0.52469
2018	0.22030	0.27067
2019	0.16294	0.15494

Pounds/Day	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	2.26971	3.14678
2017	3.30269	4.03608
2018	1.68812	2.07410
2019	1.24858	1.18728

Offsite Emissions

Tons/Year	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.00962	0.02541
2017	0.01375	0.04201
2018	0.00124	0.01435
2019	0.00113	0.01517

Pounds/Day	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.08050	0.21264
2017	0.10577	0.32315
2018	0.00950	0.10996
2019	0.00866	0.11625

Maximum Emissions per phase (tons/year)

P1 Demolition

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0006
	Off-Road		0.0346	0.0319
	Total		**0.0346**	**0.0324**
Offsite				
	Hauling		0.00011	0.00024
	Vendor		0.00E+00	0
	Worker		2.00E-05	0.00052
	Total		**1.30E-04**	**0.00076**
TOTAL			***0.0347***	***0.0332***

P1 Demolition - Asphalt Haul

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0003
	Off-Road		0	0
	Total		**0**	**0.00025**
Offsite				
	Hauling		0.00005	0.0001
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**5.00E-05**	**0.0001**
TOTAL			***0.0001***	***0.0004***

P1 Mass Grading

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0628
	Off-Road		0.0681	0.0627
	Total		**0.0681**	**0.1255**
Offsite				
	Hauling		0	0
	Vendor		1.30E-04	0.00028
	Worker		3.00E-05	0.00109
	Total		**1.60E-04**	**0.00137**
TOTAL			***0.0683***	***0.1269***

P1 Trenching

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.00486	0.00447
	Total		**0.00486**	**0.00447**
Offsite				
	Hauling		0	0
	Vendor		2.50E-04	0.00054
	Worker		2.00E-05	0.00053
	Total		**2.70E-04**	**0.00107**
TOTAL			***0.0051***	***0.0055***

P2 Mass Grading				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0616
	Off-Road		0.106	0.0975
	Total		**0.106**	**0.1591**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00043
	Total		**1.00E-05**	**0.00043**
TOTAL			***0.1060***	***0.1595***

P2 Mass Grading Soil Haul				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0001
	Off-Road		0	0
	Total		**0**	**0.00014**
Offsite				
	Hauling		0.00873	0.0188
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**8.73E-03**	**0.0188**
TOTAL			***0.0087***	***0.0189***

P1 Paving				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0141	0.0130
	Paving		0	0
	Total		**0.0141**	**0.013**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		2.00E-05	0.00057
	Total		**2.00E-05**	**0.00057**
TOTAL			***0.0141***	***0.0136***

P2 Trenching			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.00237	0.00218
	Total		**0.00237**	**0.00218**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00026
	Total		**1.00E-05**	**0.00026**
TOTAL			***0.0024***	***0.0024***

P2-P4 Building Construction			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0412	0.039
	Total		**0.0412**	**0.039**
Offsite				
	Hauling		0	0
	Vendor		1.90E-04	0.00042
	Worker		5.00E-05	0.00163
	Total		**2.40E-04**	**0.00205**
TOTAL			***0.0414***	***0.0411***
Onsite		**2017**		
	Off-Road		0.2221	0.2102
	Total		**0.2221**	**0.2102**
Offsite				
	Hauling		0	0
	Vendor		9.80E-04	0.00233
	Worker		2.70E-04	0.00963
	Total		**1.25E-03**	**0.012**
TOTAL			***0.2234***	***0.2222***
Onsite		**2018**		
	Off-Road		0.1899	0.1799
	Total		**0.1899**	**0.1799**
Offsite				
	Hauling		0	0
	Vendor		9.10E-04	0.00227
	Worker		2.60E-04	0.00966
	Total		**1.17E-03**	**0.0119**
TOTAL			***0.1911***	***0.1918***
Onsite		**2019**		
	Off-Road		0.1518	0.1438
	Total		**0.1518**	**0.1438**
Offsite				
	Hauling		0	0
	Vendor		7.70E-04	0.00202
	Worker		2.40E-04	0.00884
	Total		**1.01E-03**	**0.0109**
TOTAL			***0.1528***	***0.1547***

P3 Demolition			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0006
	Off-Road		0.0338	0.0311
	Total		**0.0338**	**0.0317**
Offsite				
	Hauling		0.0001	0.00023
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00027
	Total		**1.10E-04**	**0.0005**
TOTAL			***0.0339***	***0.0322***

P3 Mass Grading			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0609
	Off-Road		0.0975	0.0897
	Total		**0.0975**	**0.1505**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00042
	Total		**1.00E-05**	**0.00042**
TOTAL			***0.0975***	***0.1509***

P3 Mass Grading Soil Haul			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0001
	Off-Road		0	0
	Total		**0**	**0.00009**
Offsite				
	Hauling		0.00512	0.0118
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**5.12E-03**	**0.0118**
TOTAL			***0.0051***	***0.0119***

P3 Trenching			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Off-Road		0.00225	0.00207
	Total		**0.00225**	**0.00207**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00027
	Total		**1.00E-05**	**0.00027**
TOTAL			***0.0023***	***0.0023***

P4 Mass Grading				
			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0623
	Off-Road		0.0737	0.0678
	Total		**0.0737**	**0.13**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00032
	Total		**1.00E-05**	**0.00032**
TOTAL			***0.0737***	***0.1303***
Onsite		**2018**		
	Fugitive Dust		0.0000	0.0623
	Off-Road		0.0221	0.0203
	Total		**0.0221**	**0.0826**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		0.00E+00	0.00011
	Total		**0.00E+00**	**0.00011**
TOTAL			***0.0221***	***0.0827***

P4 Mass Grading Soil Haul				
			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0001
	Off-Road		0	0
	Total		**0**	**0.00013**
Offsite				
	Hauling		0.00724	0.0167
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**7.24E-03**	**0.0167**
TOTAL			***0.0072***	***0.0168***

P4 Trenching				
			Exhaust PM10	PM2.5 Total
Onsite		**2018**		
	Off-Road		0.0016	0.00147
	Total		**0.0016**	**0.00147**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00025
	Total		**1.00E-05**	**0.00025**
TOTAL			***0.0016***	***0.0017***

P2 Architectural Coating				
			Exhaust PM10	PM2.5 Total
Onsite		**2018**		
	Architectural Coating		0.0000	0.0000
	Off-Road		0.0067	0.0067
	Total		**0.0067**	**0.0067**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		6.00E-05	0.0022
	Total		**6.00E-05**	**0.0022**
TOTAL			***0.0068***	***0.0089***

P3 Architectural Coating				
			Exhaust PM10	PM2.5 Total
Onsite		**2019**		
	Architectural Coating		0.0000	0.0000
	Off-Road		0.00554	0.00554
	Total		**0.00554**	**0.00554**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		6.00E-05	0.00212
	Total		**6.00E-05**	**0.00212**
TOTAL			***0.0056***	***0.0077***

P4 Architectural Coating				
			Exhaust PM10	PM2.5 Total
Onsite		**2019**		
	Architectural Coating		0.0000	0.0000
	Off-Road		0.0056	0.0056
	Total		**0.0056**	**0.0056**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		6.00E-05	0.00215
	Total		**6.00E-05**	**0.00215**
TOTAL			***0.0057***	***0.0078***

Construction Risk Assessment Emissions Worksheet - TOD #1 Mitigated

Total Construction Workdays:

2016	239	days
2017	260	days
2018	261	days
2019	261	days

Onsite Emissions

Tons/Year	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.02758	0.15396
2017	0.09471	0.22070
2018	0.07747	0.14082
2019	0.06283	0.06283

Pounds/Day	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.23079	1.28837
2017	0.72854	1.69769
2018	0.59364	1.07908
2019	0.48146	0.48146

Offsite Emissions

Tons/Year	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.00744	0.01981
2017	0.01066	0.03327
2018	0.00124	0.01347
2019	0.00113	0.01417

Pounds/Day	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.06226	0.16577
2017	0.08200	0.25592
2018	0.00950	0.10322
2019	0.00866	0.10858

Maximum Emissions per phase (tons/year)

P1 Demolition

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0006
	Off-Road		0.00191	0.00191
	Total		**0.00191**	**0.00249**
Offsite				
	Hauling		0.00012	0.00024
	Vendor		0.00E+00	0
	Worker		2.00E-05	0.00048
	Total		**1.40E-04**	**0.00072**
TOTAL			***0.0021***	***0.0032***

P1 Demolition - Asphalt Haul

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0003
	Off-Road		0	0
	Total		**0**	**0.00025**
Offsite				
	Hauling		0.00005	0.0001
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**5.00E-05**	**0.0001**
TOTAL			***0.0001***	***0.0004***

P1 Mass Grading

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0628
	Off-Road		0.00311	0.00311
	Total		**0.00311**	**0.0659**
Offsite				
	Hauling		0	0
	Vendor		1.30E-04	0.00027
	Worker		3.00E-05	0.00101
	Total		**1.60E-04**	**0.00128**
TOTAL			***0.0033***	***0.0672***

P1 Trenching

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.00041	0.00041
	Total		**0.00041**	**0.00041**
Offsite				
	Hauling		0	0
	Vendor		2.50E-04	0.00053
	Worker		2.00E-05	0.00049
	Total		**2.70E-04**	**0.00102**
TOTAL			***0.0007***	***0.0014***

P2 Mass Grading				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0626
	Off-Road		0.00548	0.00548
	Total		**0.00548**	**0.0681**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.0004
	Total		**1.00E-05**	**0.0004**
TOTAL			***0.0055***	***0.0685***

P2 Mass Grading Soil Haul				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0001
	Off-Road		0	0
	Total		**0**	**0.00014**
Offsite				
	Hauling		0.00654	0.0136
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**6.54E-03**	**0.0136**
TOTAL			***0.0065***	***0.0137***

P1 Paving				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0011	0.0011
	Paving		0	0
	Total		**0.00107**	**0.00107**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		2.00E-05	0.00053
	Total		**2.00E-05**	**0.00053**
TOTAL			***0.0011***	***0.0016***

P2 Trenching			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0002	0.0002
	Total		**0.0002**	**0.0002**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00024
	Total		**1.00E-05**	**0.00024**
TOTAL			***0.0002***	***0.0004***

P2-P4 Building Construction			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0154	0.0154
	Total		**0.0154**	**0.0154**
Offsite				
	Hauling		0	0
	Vendor		1.90E-04	0.0004
	Worker		5.00E-05	0.00152
	Total		**2.40E-04**	**0.00192**
TOTAL			***0.0156***	***0.0173***
Onsite		**2017**		
	Off-Road		0.083	0.083
	Total		**0.083**	**0.083**
Offsite				
	Hauling		0	0
	Vendor		9.80E-04	0.00225
	Worker		2.70E-04	0.00896
	Total		**1.25E-03**	**0.0112**
TOTAL			***0.0843***	***0.0942***
Onsite		**2018**		
	Off-Road		0.0752	0.0752
	Total		**0.0752**	**0.0752**
Offsite				
	Hauling		0	0
	Vendor		9.10E-04	0.00219
	Worker		2.60E-04	0.00898
	Total		**1.17E-03**	**0.0112**
TOTAL			***0.0764***	***0.0864***
Onsite		**2019**		
	Off-Road		0.0616	0.0616
	Total		**0.0616**	**0.0616**
Offsite				
	Hauling		0	0
	Vendor		7.70E-04	0.00195
	Worker		2.40E-04	0.00822
	Total		**1.01E-03**	**0.0102**
TOTAL			***0.0626***	***0.0718***

P3 Demolition				
			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0006
	Off-Road		0.002	0.002
	Total		**0.002**	**0.00257**
Offsite				
	Hauling		0.0001	0.00023
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00025
	Total		**1.10E-04**	**0.00048**
TOTAL			***0.0021***	***0.0031***

P3 Mass Grading				
			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0619
	Off-Road		0.00541	0.00541
	Total		**0.00541**	**0.0673**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00039
	Total		**1.00E-05**	**0.00039**
TOTAL			***0.0054***	***0.0677***

P3 Mass Grading Soil Haul				
			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0001
	Off-Road		0	0
	Total		**0**	**0.00009**
Offsite				
	Hauling		0.00384	0.00855
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**3.84E-03**	**0.00855**
TOTAL			***0.0038***	***0.0086***

P3 Trenching				
			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Off-Road		0.00021	0.00021
	Total		**0.00021**	**0.00021**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00025
	Total		**1.00E-05**	**0.00025**
TOTAL			***0.0002***	***0.0005***

P4 Mass Grading				
			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0633
	Off-Road		0.00409	0.00409
	Total		**0.00409**	**0.0674**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.0003
	Total		**1.00E-05**	**0.0003**
TOTAL			***0.0041***	***0.0677***
Onsite		**2018**		
	Fugitive Dust		0.0000	0.0633
	Off-Road		0.00145	0.00145
	Total		**0.00145**	**0.0648**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		0.00E+00	0.00011
	Total		**0.00E+00**	**0.00011**
TOTAL			***0.0015***	***0.0649***

P4 Mass Grading Soil Haul				
			Exhaust PM10	PM2.5 Total
Onsite		**2017**		
	Fugitive Dust		0.0000	0.0001
	Off-Road		0	0
	Total		**0**	**0.00013**
Offsite				
	Hauling		0.00543	0.0121
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**5.43E-03**	**0.0121**
TOTAL			***0.0054***	***0.0122***

P4 Trenching				
			Exhaust PM10	PM2.5 Total
Onsite		**2018**		
	Off-Road		0.00019	0.00019
	Total		**0.00019**	**0.00019**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		1.00E-05	0.00023
	Total		**1.00E-05**	**0.00023**
TOTAL			***0.0002***	***0.0004***

P2 Architectural Coating				
			Exhaust PM10	PM2.5 Total
Onsite		**2018**		
	Architectural Coating		0.0000	0.0000
	Off-Road		0.00063	0.00063
	Total		**0.00063**	**0.00063**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		6.00E-05	0.00204
	Total		**6.00E-05**	**0.00204**
TOTAL			***0.0007***	***0.0027***

P3 Architectural Coating				
			Exhaust PM10	PM2.5 Total
Onsite		**2019**		
	Architectural Coating		0.0000	0.0000
	Off-Road		0.00061	0.00061
	Total		**0.00061**	**0.00061**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		6.00E-05	0.00197
	Total		**6.00E-05**	**0.00197**
TOTAL			***0.0007***	***0.0026***

P4 Architectural Coating				
			Exhaust PM10	PM2.5 Total
Onsite		**2019**		
	Architectural Coating		0.0000	0.0000
	Off-Road		0.00062	0.00062
	Total		**0.00062**	**0.00062**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		6.00E-05	0.002
	Total		**6.00E-05**	**0.002**
TOTAL			***0.0007***	***0.0026***

TOD#1 Construction
Unit Emission Rates (1 g/s)

```
*** ISCST3 - VERSION 02035 ***    *** COMI-01 TOD #1                                                    ***        04/20/15
                                   *** Construction HRA                                                  ***        14:03:14
**MODELOPTs:                                                                                                        PAGE   1
CONC                    URBAN ELEV  FLGPOL DFAULT

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses Regulatory DEFAULT Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Use Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           8. "Upper Bound" Values for Supersquat Buildings.
           9. No Exponential Decay for URBAN/Non-SO2

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:    13 Source(s);      3 Source Group(s); and     228 Receptor(s)

**The Model Assumes A Pollutant Type of:  OTHER

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours
```

```
**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.2 MB of RAM.

**Input Runstream File:          COMI01_TOD1.INP
**Output Print File:             COMI01_TOD1.OUT
**Detailed Error/Message File:   CO9F8C~1.ERR
```

CONC URBAN ELEV FLGPOL DFAULT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
L0000025	0	0.83333E-01	553892.0	4161672.8	31.5	4.15	13.02	1.93	SHRDOW
L0000026	0	0.83333E-01	553872.5	4161692.8	30.7	4.15	13.02	1.93	SHRDOW
L0000027	0	0.83333E-01	553853.0	4161712.8	32.0	4.15	13.02	1.93	SHRDOW
L0000028	0	0.83333E-01	553833.4	4161733.0	32.4	4.15	13.02	1.93	SHRDOW
L0000029	0	0.83333E-01	553813.9	4161753.0	32.5	4.15	13.02	1.93	SHRDOW
L0000030	0	0.83333E-01	553794.4	4161773.0	32.8	4.15	13.02	1.93	SHRDOW
L0000031	0	0.83333E-01	553774.9	4161793.0	31.3	4.15	13.02	1.93	SHRDOW
L0000032	0	0.83333E-01	553755.4	4161813.2	32.4	4.15	13.02	1.93	SHRDOW
L0000033	0	0.83333E-01	553735.8	4161833.2	32.9	4.15	13.02	1.93	SHRDOW
L0000034	0	0.83333E-01	553716.3	4161853.2	33.2	4.15	13.02	1.93	SHRDOW
L0000035	0	0.83333E-01	553696.8	4161873.2	32.1	4.15	13.02	1.93	SHRDOW
L0000036	0	0.83333E-01	553677.3	4161893.5	32.4	4.15	13.02	1.93	SHRDOW

**MODELOPTs:
CONC URBAN ELEV FLGPOL DFAULT

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
1	0	0.56810E-04	553884.9	4161694.0	30.4	4.15	13	1.93	SHRDOW

**MODELOPTs:
CONC URBAN ELEV FLGPOL DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
1	1 ,
2	L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,
ALL	1 , L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,

CONC URBAN ELEV FLGPOL DFAULT

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW) *

SOURCE ID = 1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
SEASON = WINTER; DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = FALL ; DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = WINTER; DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = FALL ; DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = WINTER; DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = SUNDAY															

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 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
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CONC URBAN ELEV FLGPOL DFAULT

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW) *

SOURCE ID = L0000025 through L0000036; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
SEASON = WINTER; DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = FALL ; DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.0000E+00	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = WINTER; DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = FALL ; DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = WINTER; DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SPRING; DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
SEASON = SUMMER; DAY OF WEEK = SUNDAY															

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 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
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CONC URBAN ELEV FLGPOL DEFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(554216.7,	4161354.5,	29.4,	1.5);	(554080.4,	4161361.2,	32.0,	1.5);
(554060.8,	4161309.5,	33.1,	1.5);	(554032.4,	4161351.5,	33.1,	1.5);
(553979.4,	4161331.0,	34.0,	1.5);	(553985.3,	4161309.5,	34.1,	1.5);
(553968.7,	4161286.8,	34.4,	1.5);	(553953.9,	4161309.5,	34.4,	1.5);
(553837.3,	4161350.5,	36.5,	1.5);	(553940.2,	4161389.8,	34.9,	1.5);
(553918.7,	4161410.3,	35.1,	1.5);	(553910.8,	4161428.0,	34.0,	1.5);
(553862.8,	4161434.8,	34.6,	1.5);	(553893.2,	4161465.2,	34.1,	1.5);
(553981.4,	4161413.2,	33.9,	1.5);	(553967.7,	4161433.0,	32.5,	1.5);
(553953.9,	4161448.5,	33.0,	1.5);	(553943.2,	4161461.3,	33.6,	1.5);
(553931.4,	4161484.0,	33.7,	1.5);	(553910.8,	4161574.0,	32.3,	1.5);
(553868.4,	4161495.0,	34.4,	1.5);	(553836.6,	4161471.8,	35.5,	1.5);
(553824.5,	4161464.0,	35.6,	1.5);	(553854.2,	4161514.2,	34.1,	1.5);
(553843.7,	4161524.3,	34.3,	1.5);	(553837.2,	4161534.0,	34.4,	1.5);
(553823.1,	4161551.8,	34.5,	1.5);	(553788.4,	4161527.8,	34.6,	1.5);
(553797.6,	4161505.8,	35.9,	1.5);	(553806.1,	4161495.0,	35.8,	1.5);
(553795.5,	4161435.5,	35.6,	1.5);	(553788.4,	4161448.3,	35.7,	1.5);
(553779.9,	4161457.5,	35.9,	1.5);	(553770.7,	4161470.2,	36.2,	1.5);
(553760.1,	4161483.8,	37.1,	1.5);	(553749.4,	4161499.3,	37.4,	1.5);
(553770.0,	4161415.0,	37.3,	1.5);	(553748.8,	4161409.5,	38.4,	1.5);
(553741.7,	4161434.2,	37.6,	1.5);	(553731.1,	4161443.5,	37.8,	1.5);
(553728.9,	4161463.2,	37.8,	1.5);	(553719.7,	4161471.8,	37.8,	1.5);
(553714.1,	4161485.2,	37.9,	1.5);	(553733.9,	4161523.5,	36.8,	1.5);
(553693.5,	4161498.8,	38.0,	1.5);	(553765.0,	4161551.0,	35.8,	1.5);
(553799.8,	4161573.0,	34.7,	1.5);	(553677.5,	4161515.8,	37.3,	1.5);
(553657.6,	4161532.5,	37.8,	1.5);	(553644.4,	4161545.2,	38.0,	1.5);
(553630.5,	4161558.5,	38.2,	1.5);	(553618.5,	4161568.5,	38.3,	1.5);
(553602.8,	4161589.8,	38.5,	1.5);	(553617.9,	4161602.2,	37.0,	1.5);
(553628.1,	4161610.8,	37.0,	1.5);	(553638.4,	4161624.0,	36.9,	1.5);
(553653.4,	4161599.2,	38.1,	1.5);	(553662.4,	4161591.0,	38.0,	1.5);
(553672.7,	4161580.8,	37.8,	1.5);	(553682.9,	4161567.5,	37.1,	1.5);
(553658.8,	4161651.0,	36.5,	1.5);	(553667.9,	4161637.2,	36.1,	1.5);
(553678.1,	4161630.0,	35.7,	1.5);	(553688.9,	4161619.2,	35.1,	1.5);
(553695.6,	4161610.2,	35.0,	1.5);	(553704.0,	4161600.0,	35.0,	1.5);
(553718.4,	4161586.8,	36.8,	1.5);	(553725.6,	4161578.2,	36.7,	1.5);
(553573.9,	4161620.5,	38.8,	1.5);	(553584.8,	4161635.5,	38.5,	1.5);
(553597.4,	4161644.5,	37.5,	1.5);	(553606.4,	4161650.0,	37.3,	1.5);
(553584.8,	4161672.2,	38.6,	1.5);	(553558.2,	4161699.2,	38.0,	1.5);
(553758.4,	4161607.8,	34.6,	1.5);	(553832.5,	4161657.8,	33.3,	1.5);
(553819.2,	4161680.0,	33.3,	1.5);	(553811.4,	4161690.3,	32.5,	1.5);
(553803.6,	4161698.0,	32.5,	1.5);	(553797.6,	4161707.2,	32.5,	1.5);
(553759.2,	4161743.2,	33.9,	1.5);	(553735.8,	4161769.5,	34.5,	1.5);

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( 553723.1, 4161782.2,      33.1,       1.5);          ( 553703.2, 4161804.3,      33.0,       1.5);
( 553680.6, 4161829.8,      33.5,       1.5);          ( 553914.1, 4161744.0,      30.1,       1.5);
( 553904.2, 4161753.8,      30.3,       1.5);          ( 553892.1, 4161766.0,      30.5,       1.5);
( 553881.5, 4161778.0,      30.6,       1.5);          ( 553872.2, 4161788.5,      29.6,       1.5);
( 553856.0, 4161802.8,      30.6,       1.5);          ( 553848.2, 4161819.0,      30.8,       1.5);
( 553837.6, 4161826.8,      30.9,       1.5);          ( 553827.7, 4161843.0,      31.0,       1.5);
( 553809.2, 4161857.2,      31.1,       1.5);          ( 553800.0, 4161867.2,      31.2,       1.5);
( 553787.2, 4161879.2,      30.1,       1.5);          ( 553776.7, 4161893.5,      30.2,       1.5);
( 553768.2, 4161904.8,      30.9,       1.5);          ( 553763.9, 4161909.8,      31.1,       1.5);
( 553732.8, 4161936.5,      31.9,       1.5);          ( 553726.4, 4161950.0,      32.0,       1.5);
( 553716.4, 4161961.5,      31.1,       1.5);          ( 553705.8, 4161970.5,      31.0,       1.5);
( 553741.9, 4162002.5,      30.7,       1.5);          ( 553749.0, 4161990.5,      30.5,       1.5);
( 553756.8, 4161977.8,      30.3,       1.5);          ( 553763.2, 4161967.0,      30.1,       1.5);
( 553797.9, 4161930.2,      30.1,       1.5);          ( 553808.5, 4161921.0,      30.0,       1.5);
( 553818.4, 4161907.5,      30.0,       1.5);          ( 553829.1, 4161894.8,      30.0,       1.5);
( 553843.2, 4161884.2,      29.9,       1.5);          ( 553851.8, 4161875.0,      29.7,       1.5);
( 553859.5, 4161864.2,      30.6,       1.5);          ( 553868.8, 4161851.0,      29.7,       1.5);
( 553879.4, 4161841.0,      29.5,       1.5);          ( 553891.4, 4161830.3,      29.3,       1.5);
( 553904.2, 4161819.0,      29.1,       1.5);          ( 553911.9, 4161805.5,      29.0,       1.5);
( 553919.8, 4161792.0,      29.0,       1.5);          ( 553931.8, 4161778.0,      30.1,       1.5);
( 553946.7, 4161766.0,      30.0,       1.5);          ( 553839.5, 4162041.8,      28.8,       1.5);
( 553867.9, 4162002.5,      27.7,       1.5);          ( 553880.7, 4161991.8,      27.4,       1.5);
( 553888.5, 4161982.0,      27.2,       1.5);          ( 553896.4, 4161968.2,      27.1,       1.5);
( 553912.1, 4161955.5,      28.0,       1.5);          ( 553916.9, 4161941.8,      27.9,       1.5);
( 553926.8, 4161935.0,      27.8,       1.5);          ( 553939.5, 4161916.2,      27.7,       1.5);
( 553955.2, 4161901.8,      26.9,       1.5);          ( 553965.0, 4161887.0,      26.4,       1.5);
( 553976.8, 4161875.2,      26.2,       1.5);          ( 553996.4, 4161860.5,      27.8,       1.5);
( 554018.9, 4161857.5,      27.5,       1.5);          ( 554039.5, 4161856.5,      27.2,       1.5);
( 554058.1, 4161850.8,      26.2,       1.5);          ( 554074.8, 4161850.8,      26.0,       1.5);
( 554089.5, 4161854.5,      25.7,       1.5);          ( 554103.2, 4161854.5,      25.4,       1.5);
( 554119.9, 4161857.5,      25.0,       1.5);          ( 554135.6, 4161856.5,      23.6,       1.5);
( 554149.3, 4161854.5,      23.3,       1.5);          ( 554167.9, 4161860.5,      23.0,       1.5);
( 554183.6, 4161866.2,      22.9,       1.5);          ( 554196.4, 4161876.2,      21.6,       1.5);
( 554207.1, 4161889.0,      21.5,       1.5);          ( 554221.9, 4161892.8,      20.8,       1.5);
( 554235.6, 4161904.5,      20.4,       1.5);          ( 554247.3, 4161919.3,      20.2,       1.5);
( 554226.1, 4161951.0,      20.5,       1.5);          ( 554215.2, 4161943.8,      21.4,       1.5);
( 554200.8, 4161934.2,      21.5,       1.5);          ( 554186.3, 4161925.0,      21.6,       1.5);
( 554168.2, 4161934.2,      21.7,       1.5);          ( 554158.6, 4161948.5,      21.9,       1.5);
( 554150.2, 4161960.0,      20.9,       1.5);          ( 554135.1, 4161974.0,      21.3,       1.5);
( 554153.2, 4161986.0,      20.7,       1.5);          ( 554179.7, 4161996.8,      20.5,       1.5);
( 554173.7, 4162012.5,      20.7,       1.5);          ( 554150.8, 4162026.8,      21.1,       1.5);
( 554133.3, 4162024.5,      21.5,       1.5);          ( 554113.5, 4162005.2,      23.0,       1.5);
( 554101.4, 4162014.8,      23.4,       1.5);          ( 554094.2, 4162028.0,      23.6,       1.5);
( 554083.4, 4162042.0,      23.7,       1.5);          ( 554071.9, 4162056.2,      22.1,       1.5);
( 554052.7, 4162078.0,      22.1,       1.5);          ( 554152.0, 4161901.0,      21.7,       1.5);
( 554126.8, 4161928.2,      23.2,       1.5);          ( 554117.7, 4161941.2,      23.5,       1.5);
( 554105.1, 4161953.5,      23.8,       1.5);          ( 554088.8, 4161969.8,      23.9,       1.5);
( 554079.8, 4161980.5,      24.0,       1.5);          ( 554075.6, 4161989.5,      24.0,       1.5);
( 554065.3, 4162001.5,      24.0,       1.5);          ( 554054.5, 4162013.5,      24.1,       1.5);
```

**MODELOPTs:
CONC URBAN ELEV FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(554038.2,	4162030.0,	25.1,	1.5);	(554124.3,	4161901.0,	23.1,	1.5);
(554108.6,	4161900.5,	23.7,	1.5);	(554090.0,	4161911.8,	24.0,	1.5);
(554080.9,	4161924.0,	24.1,	1.5);	(554073.1,	4161933.5,	24.2,	1.5);
(554065.9,	4161948.0,	24.3,	1.5);	(554053.2,	4161959.5,	24.4,	1.5);
(554044.8,	4161967.2,	24.2,	1.5);	(554021.9,	4161992.5,	25.4,	1.5);
(554010.5,	4162007.0,	25.7,	1.5);	(554048.4,	4161899.8,	24.2,	1.5);
(554032.8,	4161922.8,	25.3,	1.5);	(554015.9,	4161940.2,	25.8,	1.5);
(554006.3,	4161954.5,	26.0,	1.5);	(553992.4,	4161968.5,	26.0,	1.5);
(553981.6,	4161981.0,	26.0,	1.5);	(553962.9,	4162005.2,	26.1,	1.5);
(553954.5,	4162019.0,	26.2,	1.5);	(553943.7,	4162026.8,	26.9,	1.5);
(553932.2,	4162040.0,	27.0,	1.5);	(554026.2,	4161893.8,	25.4,	1.5);
(554008.1,	4161896.2,	26.0,	1.5);	(553990.1,	4161905.8,	26.0,	1.5);
(553981.6,	4161924.0,	26.2,	1.5);	(553967.2,	4161937.8,	26.5,	1.5);
(553957.5,	4161943.2,	26.7,	1.5);	(553951.5,	4161956.5,	26.7,	1.5);
(553932.2,	4161979.2,	27.0,	1.5);	(553922.0,	4161993.2,	27.0,	1.5);
(553913.0,	4162006.5,	27.0,	1.5);	(553899.1,	4162019.8,	27.2,	1.5);
(553888.9,	4162028.8,	27.3,	1.5);	(553881.1,	4162038.2,	27.5,	1.5);
(553869.0,	4162050.2,	26.6,	1.5);	(553861.8,	4162062.5,	26.8,	1.5);
(553922.6,	4162054.0,	26.0,	1.5);	(553916.0,	4162064.8,	26.0,	1.5);
(553995.4,	4162030.0,	25.8,	1.5);	(553984.0,	4162041.2,	25.9,	1.5);
(553972.0,	4162052.8,	24.4,	1.5);	(553964.1,	4162063.0,	24.5,	1.5);
(553954.5,	4162075.0,	24.9,	1.5);	(553942.5,	4162087.8,	25.6,	1.5);
(554026.2,	4162052.8,	23.6,	1.5);	(554014.1,	4162070.3,	23.8,	1.5);
(554003.9,	4162078.0,	24.0,	1.5);	(553906.9,	4162074.5,	26.0,	1.5);

CONC URBAN ELEV FLGPOL DFAULT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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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 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 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 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 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   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
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
B	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
C	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00
D	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00
E	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00
F	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

**MODELOPTs:
CONC URBAN ELEV FLGPOL DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: ..\D-METD~1\Combined.asc
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 6801 UPPER AIR STATION NO.: 6801
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 2003 YEAR: 2003

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
03	01	01	01	38.4	1.16	280.7	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	02	8.6	1.00	280.6	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	03	356.1	1.00	280.3	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	04	20.5	1.34	279.6	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	05	69.9	1.00	279.5	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	06	20.9	1.00	279.1	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	07	17.1	1.25	278.8	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	08	352.7	1.00	279.1	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	09	20.1	1.00	279.7	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	10	303.4	1.00	282.4	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	11	250.0	1.34	284.0	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	12	203.8	2.01	283.5	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	13	181.6	1.25	284.0	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	14	171.6	1.74	284.7	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	15	175.3	1.88	285.1	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	16	172.3	1.61	285.4	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	17	205.5	1.03	285.2	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	18	230.4	1.00	285.0	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	19	147.7	1.00	284.7	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	20	159.7	1.03	284.1	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	21	283.2	1.34	284.2	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	22	339.5	1.00	283.6	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	23	343.2	1.79	283.2	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	24	20.4	1.52	283.1	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): 1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554216.69	4161354.50	0.87588	554080.44	4161361.25	1.55457
554060.81	4161309.50	1.18959	554032.38	4161351.50	1.58678
553979.44	4161331.00	1.32914	553985.31	4161309.50	1.20465
553968.69	4161286.75	1.04657	553953.94	4161309.50	1.11968
553837.31	4161350.50	0.73566	553940.25	4161389.75	1.55122
553918.69	4161410.25	1.52679	553910.81	4161428.00	1.58384
553862.81	4161434.75	1.15723	553893.19	4161465.25	1.67584
553981.44	4161413.25	2.12731	553967.69	4161433.00	2.25022
553953.94	4161448.50	2.29066	553943.19	4161461.25	2.31604
553931.44	4161484.00	2.45688	553910.81	4161574.00	3.94901
553868.44	4161495.00	1.54167	553836.56	4161471.75	1.03014
553824.50	4161464.00	0.89680	553854.25	4161514.25	1.42395
553843.69	4161524.25	1.29519	553837.25	4161534.00	1.22679
553823.12	4161551.75	1.06412	553788.44	4161527.75	0.69876
553797.62	4161505.75	0.74132	553806.12	4161495.00	0.79403
553795.50	4161435.50	0.64888	553788.44	4161448.25	0.62327
553779.94	4161457.50	0.58674	553770.69	4161470.25	0.55116
553760.06	4161483.75	0.51301	553749.44	4161499.25	0.48035
553770.00	4161415.00	0.50976	553748.75	4161409.50	0.43135
553741.69	4161434.25	0.42146	553731.06	4161443.50	0.39457
553728.94	4161463.25	0.39680	553719.69	4161471.75	0.37579
553714.06	4161485.25	0.36718	553733.88	4161523.50	0.43977
553693.50	4161498.75	0.32669	553765.00	4161551.00	0.58140
553799.75	4161573.00	0.83649	553677.50	4161515.75	0.30146
553657.62	4161532.50	0.27125	553644.38	4161545.25	0.25224
553630.50	4161558.50	0.23340	553618.50	4161568.50	0.21860
553602.81	4161589.75	0.20244	553617.88	4161602.25	0.22015
553628.12	4161610.75	0.23371	553638.38	4161624.00	0.24943
553653.38	4161599.25	0.26813	553662.44	4161591.00	0.28259
553672.69	4161580.75	0.30097	553682.94	4161567.50	0.32104
553658.81	4161651.00	0.28546	553667.88	4161637.25	0.29946
553678.06	4161630.00	0.31775	553688.94	4161619.25	0.33888
553695.56	4161610.25	0.35302	553704.00	4161600.00	0.37355
553718.44	4161586.75	0.41410	553725.63	4161578.25	0.43561
553573.94	4161620.50	0.17901	553584.75	4161635.50	0.18975
553597.44	4161644.50	0.20268	553606.44	4161650.00	0.21257
553584.75	4161672.25	0.19086	553558.25	4161699.25	0.16910

553758.44	4161607.75	0.58143	553832.50	4161657.75	1.46075
553819.25	4161680.00	1.22890	553811.38	4161690.25	1.11986
553803.56	4161698.00	1.02575	553797.56	4161707.25	0.97176
553759.19	4161743.25	0.70521	553735.81	4161769.50	0.61737
553723.06	4161782.25	0.57505	553703.25	4161804.25	0.52348
553680.56	4161829.75	0.47418	553914.06	4161744.00	9.06062
553904.19	4161753.75	6.85422	553892.12	4161766.00	5.16311
553881.50	4161778.00	4.13751	553872.25	4161788.50	3.48165
553856.00	4161802.75	2.71634	553848.19	4161819.00	2.33421
553837.56	4161826.75	2.05214	553827.69	4161843.00	1.76738
553809.25	4161857.25	1.45435	553800.00	4161867.25	1.31479
553787.25	4161879.25	1.15970	553776.69	4161893.50	1.03794
553768.19	4161904.75	0.95373	553763.94	4161909.75	0.91710
553732.75	4161936.50	0.72311	553726.38	4161950.00	0.67651
553716.44	4161961.50	0.62760	553705.81	4161970.50	0.58620
553741.94	4162002.50	0.61490	553749.00	4161990.50	0.65571
553756.81	4161977.75	0.70492	553763.19	4161967.00	0.75046
553797.94	4161930.25	1.00439	553808.50	4161921.00	1.09739
553818.44	4161907.50	1.22517	553829.06	4161894.75	1.37649
553843.25	4161884.25	1.56600	553851.75	4161875.00	1.72957
553859.50	4161864.25	1.93220	553868.75	4161851.00	2.23270
553879.38	4161841.00	2.56730	553891.44	4161830.25	3.03023
553904.19	4161819.00	3.66510	553911.94	4161805.50	4.47191
553919.75	4161792.00	5.58920	553931.75	4161778.00	7.60921
553946.69	4161766.00	11.02136	553839.50	4162041.75	0.66129
553867.94	4162002.50	0.81279	553880.69	4161991.75	0.85781
553888.50	4161982.00	0.90660	553896.38	4161968.25	0.98845
553912.06	4161955.50	1.05992	553916.94	4161941.75	1.17331
553926.75	4161935.00	1.22098	553939.50	4161916.25	1.41446
553955.19	4161901.75	1.60309	553965.00	4161887.00	1.86062
553976.75	4161875.25	2.12158	553996.38	4161860.50	2.55109
554018.94	4161857.50	2.66270	554039.50	4161856.50	2.62587
554058.12	4161850.75	2.66269	554074.81	4161850.75	2.50755
554089.50	4161854.50	2.28659	554103.25	4161854.50	2.15159
554119.88	4161857.50	1.95234	554135.56	4161856.50	1.81934
554149.31	4161854.50	1.71051	554167.94	4161860.50	1.50079
554183.63	4161866.25	1.34238	554196.38	4161876.25	1.20507
554207.12	4161889.00	1.08823	554221.88	4161892.75	0.99637
554235.56	4161904.50	0.89790	554247.31	4161919.25	0.81379
554226.06	4161951.00	0.80375	554215.25	4161943.75	0.86037
554200.75	4161934.25	0.94431	554186.31	4161925.00	1.03796
554168.25	4161934.25	1.05960	554158.63	4161948.50	1.01516
554150.19	4161960.00	0.97655	554135.12	4161974.00	0.93225

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): 1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554153.19	4161986.00	0.85094	554179.69	4161996.75	0.76882
554173.69	4162012.50	0.72506	554150.81	4162026.75	0.70174
554133.31	4162024.50	0.72185	554113.50	4162005.25	0.80824
554101.44	4162014.75	0.77425	554094.19	4162028.00	0.72346
554083.38	4162042.00	0.67072	554071.94	4162056.25	0.61676
554052.69	4162078.00	0.53569	554152.00	4161901.00	1.32693
554126.75	4161928.25	1.22729	554117.69	4161941.25	1.15649
554105.06	4161953.50	1.09368	554088.81	4161969.75	1.00568
554079.75	4161980.50	0.94639	554075.56	4161989.50	0.89711
554065.31	4162001.50	0.83267	554054.50	4162013.50	0.76786
554038.19	4162030.00	0.68014	554124.31	4161901.00	1.45790
554108.62	4161900.50	1.53104	554090.00	4161911.75	1.47690
554080.94	4161924.00	1.37098	554073.12	4161933.50	1.29173
554065.94	4161948.00	1.17267	554053.25	4161959.50	1.08408
554044.81	4161967.25	1.02267	554021.94	4161992.50	0.83564
554010.50	4162007.00	0.74677	554048.44	4161899.75	1.71522
554032.81	4161922.75	1.41690	554015.94	4161940.25	1.20770
554006.31	4161954.50	1.06560	553992.44	4161968.50	0.94207
553981.62	4161981.00	0.85301	553962.94	4162005.25	0.72152
553954.50	4162019.00	0.66391	553943.69	4162026.75	0.63638
553932.25	4162040.00	0.59408	554026.19	4161893.75	1.82375
554008.12	4161896.25	1.75696	553990.06	4161905.75	1.56979
553981.62	4161924.00	1.31985	553967.19	4161937.75	1.16418
553957.50	4161943.25	1.11179	553951.50	4161956.50	1.00481
553932.25	4161979.25	0.86433	553922.00	4161993.25	0.79533
553913.00	4162006.50	0.73829	553899.12	4162019.75	0.69312
553888.88	4162028.75	0.66653	553881.06	4162038.25	0.63753
553869.00	4162050.25	0.60602	553861.81	4162062.50	0.57185
553922.63	4162054.00	0.55427	553916.00	4162064.75	0.52652
553995.44	4162030.00	0.63631	553984.00	4162041.25	0.59054
553972.00	4162052.75	0.55124	553964.13	4162063.00	0.52162
553954.50	4162075.00	0.49109	553942.50	4162087.75	0.46290
554026.19	4162052.75	0.58532	554014.12	4162070.25	0.52261
554003.88	4162078.00	0.49548	553906.94	4162074.50	0.50473

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554216.69	4161354.50	0.27379	554080.44	4161361.25	0.46641
554060.81	4161309.50	0.42852	554032.38	4161351.50	0.53082
553979.44	4161331.00	0.57186	553985.31	4161309.50	0.51999
553968.69	4161286.75	0.49895	553953.94	4161309.50	0.56227
553837.31	4161350.50	0.83126	553940.25	4161389.75	0.82072
553918.69	4161410.25	0.96970	553910.81	4161428.00	1.09249
553862.81	4161434.75	1.26568	553893.19	4161465.25	1.44468
553981.44	4161413.25	0.79742	553967.69	4161433.00	0.91821
553953.94	4161448.50	1.04944	553943.19	4161461.25	1.17747
553931.44	4161484.00	1.42284	553910.81	4161574.00	3.40368
553868.44	4161495.00	1.88760	553836.56	4161471.75	1.62381
553824.50	4161464.00	1.53296	553854.25	4161514.25	2.22155
553843.69	4161524.25	2.39946	553837.25	4161534.00	2.57714
553823.12	4161551.75	2.87367	553788.44	4161527.75	2.10541
553797.62	4161505.75	1.89191	553806.12	4161495.00	1.80918
553795.50	4161435.50	1.25174	553788.44	4161448.25	1.32149
553779.94	4161457.50	1.35990	553770.69	4161470.25	1.41566
553760.06	4161483.75	1.46390	553749.44	4161499.25	1.51901
553770.00	4161415.00	1.07412	553748.75	4161409.50	0.99331
553741.69	4161434.25	1.08364	553731.06	4161443.50	1.08726
553728.94	4161463.25	1.17556	553719.69	4161471.75	1.17383
553714.06	4161485.25	1.21355	553733.88	4161523.50	1.59757
553693.50	4161498.75	1.16123	553765.00	4161551.00	2.18378
553799.75	4161573.00	3.05861	553677.50	4161515.75	1.14009
553657.62	4161532.50	1.07950	553644.38	4161545.25	1.03730
553630.50	4161558.50	0.98565	553618.50	4161568.50	0.93189
553602.81	4161589.75	0.87713	553617.88	4161602.25	1.02924
553628.12	4161610.75	1.15282	553638.38	4161624.00	1.31966
553653.38	4161599.25	1.35453	553662.44	4161591.00	1.40281
553672.69	4161580.75	1.44630	553682.94	4161567.50	1.46367
553658.81	4161651.00	1.77413	553667.88	4161637.25	1.80149
553678.06	4161630.00	1.89363	553688.94	4161619.25	1.95476
553695.56	4161610.25	1.96202	553704.00	4161600.00	1.97704
553718.44	4161586.75	2.03485	553725.63	4161578.25	2.03494
553573.94	4161620.50	0.73984	553584.75	4161635.50	0.84205
553597.44	4161644.50	0.96941	553606.44	4161650.00	1.07324

553584.75	4161672.25	0.91407	553558.25	4161699.25	0.73072
553758.44	4161607.75	3.03325	553832.50	4161657.75	9.55028
553819.25	4161680.00	11.06565	553811.38	4161690.25	11.23354
553803.56	4161698.00	11.28435	553797.56	4161707.25	11.84683
553759.19	4161743.25	11.73425	553735.81	4161769.50	11.98408
553723.06	4161782.25	11.35542	553703.25	4161804.25	10.95996
553680.56	4161829.75	10.08659	553914.06	4161744.00	5.89284
553904.19	4161753.75	6.21915	553892.12	4161766.00	6.50351
553881.50	4161778.00	6.61664	553872.25	4161788.50	6.33597
553856.00	4161802.75	6.92631	553848.19	4161819.00	6.43864
553837.56	4161826.75	6.72068	553827.69	4161843.00	6.32211
553809.25	4161857.25	6.61287	553800.00	4161867.25	6.51053
553787.25	4161879.25	6.12161	553776.69	4161893.50	5.74154
553768.19	4161904.75	5.56260	553763.94	4161909.75	5.46661
553732.75	4161936.50	4.98318	553726.38	4161950.00	4.22063
553716.44	4161961.50	3.55674	553705.81	4161970.50	3.14422
553741.94	4162002.50	2.04340	553749.00	4161990.50	2.28517
553756.81	4161977.75	2.55090	553763.19	4161967.00	2.78087
553797.94	4161930.25	3.32946	553808.50	4161921.00	3.38030
553818.44	4161907.50	3.56211	553829.06	4161894.75	3.68886
553843.25	4161884.25	3.61831	553851.75	4161875.00	3.64713
553859.50	4161864.25	3.82802	553868.75	4161851.00	3.85160
553879.38	4161841.00	3.79434	553891.44	4161830.25	3.69749
553904.19	4161819.00	3.57891	553911.94	4161805.50	3.65892
553919.75	4161792.00	3.71873	553931.75	4161778.00	3.70395
553946.69	4161766.00	3.32819	553839.50	4162041.75	1.20642
553867.94	4162002.50	1.38876	553880.69	4161991.75	1.40411
553888.50	4161982.00	1.43359	553896.38	4161968.25	1.49163
553912.06	4161955.50	1.50946	553916.94	4161941.75	1.57977
553926.75	4161935.00	1.55650	553939.50	4161916.25	1.59227
553955.19	4161901.75	1.53909	553965.00	4161887.00	1.53439
553976.75	4161875.25	1.48636	553996.38	4161860.50	1.40652
554018.94	4161857.50	1.21024	554039.50	4161856.50	1.05248
554058.12	4161850.75	0.93144	554074.81	4161850.75	0.83513
554089.50	4161854.50	0.75658	554103.25	4161854.50	0.69493
554119.88	4161857.50	0.62673	554135.56	4161856.50	0.56765
554149.31	4161854.50	0.52704	554167.94	4161860.50	0.47580
554183.63	4161866.25	0.43823	554196.38	4161876.25	0.40535
554207.12	4161889.00	0.38251	554221.88	4161892.75	0.35572
554235.56	4161904.50	0.33236	554247.31	4161919.25	0.31352
554226.06	4161951.00	0.33547	554215.25	4161943.75	0.35500
554200.75	4161934.25	0.38062	554186.31	4161925.00	0.40876
554168.25	4161934.25	0.43979	554158.63	4161948.50	0.45270
554150.19	4161960.00	0.45925	554135.12	4161974.00	0.48231

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554153.19	4161986.00	0.43776	554179.69	4161996.75	0.38819
554173.69	4162012.50	0.39064	554150.81	4162026.75	0.41954
554133.31	4162024.50	0.45124	554113.50	4162005.25	0.51022
554101.44	4162014.75	0.52845	554094.19	4162028.00	0.53075
554083.38	4162042.00	0.53846	554071.94	4162056.25	0.53684
554052.69	4162078.00	0.54521	554152.00	4161901.00	0.49059
554126.75	4161928.25	0.54423	554117.69	4161941.25	0.55923
554105.06	4161953.50	0.58299	554088.81	4161969.75	0.60970
554079.75	4161980.50	0.62197	554075.56	4161989.50	0.62177
554065.31	4162001.50	0.63307	554054.50	4162013.50	0.64494
554038.19	4162030.00	0.66715	554124.31	4161901.00	0.57105
554108.62	4161900.50	0.62326	554090.00	4161911.75	0.67672
554080.94	4161924.00	0.69374	554073.12	4161933.50	0.70868
554065.94	4161948.00	0.71256	554053.25	4161959.50	0.73890
554044.81	4161967.25	0.75252	554021.94	4161992.50	0.79135
554010.50	4162007.00	0.79896	554048.44	4161899.75	0.86958
554032.81	4161922.75	0.90679	554015.94	4161940.25	0.94938
554006.31	4161954.50	0.95691	553992.44	4161968.50	0.97744
553981.62	4161981.00	0.98341	553962.94	4162005.25	0.97268
553954.50	4162019.00	0.95212	553943.69	4162026.75	0.96364
553932.25	4162040.00	0.94534	554026.19	4161893.75	1.01905
554008.12	4161896.25	1.13430	553990.06	4161905.75	1.22471
553981.62	4161924.00	1.20656	553967.19	4161937.75	1.23959
553957.50	4161943.25	1.27444	553951.50	4161956.50	1.24161
553932.25	4161979.25	1.22639	553922.00	4161993.25	1.19800
553913.00	4162006.50	1.16388	553899.12	4162019.75	1.14385
553888.88	4162028.75	1.12871	553881.06	4162038.25	1.09892
553869.00	4162050.25	1.04772	553861.81	4162062.50	0.99690
553922.63	4162054.00	0.90222	553916.00	4162064.75	0.87418
553995.44	4162030.00	0.78986	553984.00	4162041.25	0.79279
553972.00	4162052.75	0.77820	553964.13	4162063.00	0.76788
553954.50	4162075.00	0.75579	553942.50	4162087.75	0.74532
554026.19	4162052.75	0.64676	554014.12	4162070.25	0.64259
554003.88	4162078.00	0.64870	553906.94	4162074.50	0.85273

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554216.69	4161354.50	1.14966	554080.44	4161361.25	2.02098
554060.81	4161309.50	1.61810	554032.38	4161351.50	2.11759
553979.44	4161331.00	1.90099	553985.31	4161309.50	1.72464
553968.69	4161286.75	1.54551	553953.94	4161309.50	1.68195
553837.31	4161350.50	1.56692	553940.25	4161389.75	2.37194
553918.69	4161410.25	2.49649	553910.81	4161428.00	2.67632
553862.81	4161434.75	2.42290	553893.19	4161465.25	3.12052
553981.44	4161413.25	2.92472	553967.69	4161433.00	3.16842
553953.94	4161448.50	3.34009	553943.19	4161461.25	3.49350
553931.44	4161484.00	3.87971	553910.81	4161574.00	7.35267
553868.44	4161495.00	3.42927	553836.56	4161471.75	2.65395
553824.50	4161464.00	2.42975	553854.25	4161514.25	3.64550
553843.69	4161524.25	3.69464	553837.25	4161534.00	3.80392
553823.12	4161551.75	3.93779	553788.44	4161527.75	2.80416
553797.62	4161505.75	2.63323	553806.12	4161495.00	2.60321
553795.50	4161435.50	1.90062	553788.44	4161448.25	1.94476
553779.94	4161457.50	1.94664	553770.69	4161470.25	1.96681
553760.06	4161483.75	1.97690	553749.44	4161499.25	1.99936
553770.00	4161415.00	1.58388	553748.75	4161409.50	1.42467
553741.69	4161434.25	1.50509	553731.06	4161443.50	1.48183
553728.94	4161463.25	1.57237	553719.69	4161471.75	1.54962
553714.06	4161485.25	1.58073	553733.88	4161523.50	2.03734
553693.50	4161498.75	1.48792	553765.00	4161551.00	2.76518
553799.75	4161573.00	3.89510	553677.50	4161515.75	1.44154
553657.62	4161532.50	1.35076	553644.38	4161545.25	1.28955
553630.50	4161558.50	1.21905	553618.50	4161568.50	1.15050
553602.81	4161589.75	1.07956	553617.88	4161602.25	1.24939
553628.12	4161610.75	1.38653	553638.38	4161624.00	1.56909
553653.38	4161599.25	1.62266	553662.44	4161591.00	1.68540
553672.69	4161580.75	1.74727	553682.94	4161567.50	1.78470
553658.81	4161651.00	2.05960	553667.88	4161637.25	2.10095
553678.06	4161630.00	2.21137	553688.94	4161619.25	2.29364
553695.56	4161610.25	2.31504	553704.00	4161600.00	2.35059
553718.44	4161586.75	2.44896	553725.63	4161578.25	2.47055
553573.94	4161620.50	0.91884	553584.75	4161635.50	1.03179
553597.44	4161644.50	1.17208	553606.44	4161650.00	1.28581

553584.75	4161672.25	1.10493	553558.25	4161699.25	0.89981
553758.44	4161607.75	3.61469	553832.50	4161657.75	11.01103
553819.25	4161680.00	12.29454	553811.38	4161690.25	12.35341
553803.56	4161698.00	12.31009	553797.56	4161707.25	12.81860
553759.19	4161743.25	12.43947	553735.81	4161769.50	12.60146
553723.06	4161782.25	11.93046	553703.25	4161804.25	11.48344
553680.56	4161829.75	10.56076	553914.06	4161744.00	14.95346
553904.19	4161753.75	13.07336	553892.12	4161766.00	11.66662
553881.50	4161778.00	10.75416	553872.25	4161788.50	9.81762
553856.00	4161802.75	9.64265	553848.19	4161819.00	8.77286
553837.56	4161826.75	8.77282	553827.69	4161843.00	8.08949
553809.25	4161857.25	8.06721	553800.00	4161867.25	7.82532
553787.25	4161879.25	7.28131	553776.69	4161893.50	6.77948
553768.19	4161904.75	6.51633	553763.94	4161909.75	6.38372
553732.75	4161936.50	5.70630	553726.38	4161950.00	4.89714
553716.44	4161961.50	4.18434	553705.81	4161970.50	3.73042
553741.94	4162002.50	2.65830	553749.00	4161990.50	2.94088
553756.81	4161977.75	3.25583	553763.19	4161967.00	3.53134
553797.94	4161930.25	4.33385	553808.50	4161921.00	4.47770
553818.44	4161907.50	4.78728	553829.06	4161894.75	5.06534
553843.25	4161884.25	5.18430	553851.75	4161875.00	5.37670
553859.50	4161864.25	5.76022	553868.75	4161851.00	6.08429
553879.38	4161841.00	6.36164	553891.44	4161830.25	6.72771
553904.19	4161819.00	7.24401	553911.94	4161805.50	8.13083
553919.75	4161792.00	9.30792	553931.75	4161778.00	11.31314
553946.69	4161766.00	14.34954	553839.50	4162041.75	1.86771
553867.94	4162002.50	2.20154	553880.69	4161991.75	2.26192
553888.50	4161982.00	2.34018	553896.38	4161968.25	2.48008
553912.06	4161955.50	2.56938	553916.94	4161941.75	2.75309
553926.75	4161935.00	2.77748	553939.50	4161916.25	3.00672
553955.19	4161901.75	3.14218	553965.00	4161887.00	3.39501
553976.75	4161875.25	3.60794	553996.38	4161860.50	3.95760
554018.94	4161857.50	3.87293	554039.50	4161856.50	3.67834
554058.12	4161850.75	3.59411	554074.81	4161850.75	3.34268
554089.50	4161854.50	3.04317	554103.25	4161854.50	2.84652
554119.88	4161857.50	2.57906	554135.56	4161856.50	2.38698
554149.31	4161854.50	2.23754	554167.94	4161860.50	1.97658
554183.63	4161866.25	1.78061	554196.38	4161876.25	1.61041
554207.12	4161889.00	1.47074	554221.88	4161892.75	1.35209
554235.56	4161904.50	1.23026	554247.31	4161919.25	1.12730
554226.06	4161951.00	1.13923	554215.25	4161943.75	1.21537
554200.75	4161934.25	1.32493	554186.31	4161925.00	1.44672
554168.25	4161934.25	1.49939	554158.63	4161948.50	1.46786
554150.19	4161960.00	1.43580	554135.12	4161974.00	1.41456

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554153.19	4161986.00	1.28870	554179.69	4161996.75	1.15701
554173.69	4162012.50	1.11569	554150.81	4162026.75	1.12128
554133.31	4162024.50	1.17309	554113.50	4162005.25	1.31846
554101.44	4162014.75	1.30270	554094.19	4162028.00	1.25421
554083.38	4162042.00	1.20918	554071.94	4162056.25	1.15360
554052.69	4162078.00	1.08091	554152.00	4161901.00	1.81751
554126.75	4161928.25	1.77152	554117.69	4161941.25	1.71572
554105.06	4161953.50	1.67666	554088.81	4161969.75	1.61538
554079.75	4161980.50	1.56835	554075.56	4161989.50	1.51888
554065.31	4162001.50	1.46574	554054.50	4162013.50	1.41280
554038.19	4162030.00	1.34730	554124.31	4161901.00	2.02895
554108.62	4161900.50	2.15429	554090.00	4161911.75	2.15361
554080.94	4161924.00	2.06471	554073.12	4161933.50	2.00040
554065.94	4161948.00	1.88522	554053.25	4161959.50	1.82298
554044.81	4161967.25	1.77519	554021.94	4161992.50	1.62698
554010.50	4162007.00	1.54573	554048.44	4161899.75	2.58480
554032.81	4161922.75	2.32369	554015.94	4161940.25	2.15708
554006.31	4161954.50	2.02250	553992.44	4161968.50	1.91951
553981.62	4161981.00	1.83641	553962.94	4162005.25	1.69420
553954.50	4162019.00	1.61603	553943.69	4162026.75	1.60002
553932.25	4162040.00	1.53942	554026.19	4161893.75	2.84280
554008.12	4161896.25	2.89125	553990.06	4161905.75	2.79449
553981.62	4161924.00	2.52641	553967.19	4161937.75	2.40377
553957.50	4161943.25	2.38624	553951.50	4161956.50	2.24642
553932.25	4161979.25	2.09072	553922.00	4161993.25	1.99333
553913.00	4162006.50	1.90217	553899.12	4162019.75	1.83697
553888.88	4162028.75	1.79524	553881.06	4162038.25	1.73645
553869.00	4162050.25	1.65374	553861.81	4162062.50	1.56875
553922.63	4162054.00	1.45649	553916.00	4162064.75	1.40070
553995.44	4162030.00	1.42616	553984.00	4162041.25	1.38333
553972.00	4162052.75	1.32943	553964.13	4162063.00	1.28949
553954.50	4162075.00	1.24688	553942.50	4162087.75	1.20822
554026.19	4162052.75	1.23207	554014.12	4162070.25	1.16519
554003.88	4162078.00	1.14418	553906.94	4162074.50	1.35746

**MODELOPTs:
CONC URBAN ELEV FLGPOL DEFAULT

*** THE SUMMARY OF MAXIMUM ANNUAL (3 YRS) RESULTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

TOD#1 MER Location

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)				OF TYPE	NETWORK GRID-ID
1	1ST HIGHEST VALUE IS	11.02136 AT (	553946.69,	4161766.00,	29.96,	1.50)	DC	NA
	2ND HIGHEST VALUE IS	9.06062 AT (	553914.06,	4161744.00,	30.14,	1.50)	DC	NA
	3RD HIGHEST VALUE IS	7.60921 AT (	553931.75,	4161778.00,	30.13,	1.50)	DC	NA
	4TH HIGHEST VALUE IS	6.85422 AT (	553904.19,	4161753.75,	30.28,	1.50)	DC	NA
	5TH HIGHEST VALUE IS	5.58920 AT (	553919.75,	4161792.00,	29.00,	1.50)	DC	NA
	6TH HIGHEST VALUE IS	5.16311 AT (	553892.12,	4161766.00,	30.47,	1.50)	DC	NA
	7TH HIGHEST VALUE IS	4.47191 AT (	553911.94,	4161805.50,	29.02,	1.50)	DC	NA
	8TH HIGHEST VALUE IS	4.13751 AT (	553881.50,	4161778.00,	30.63,	1.50)	DC	NA
	9TH HIGHEST VALUE IS	3.94901 AT (	553910.81,	4161574.00,	32.33,	1.50)	DC	NA
	10TH HIGHEST VALUE IS	3.66510 AT (	553904.19,	4161819.00,	29.09,	1.50)	DC	NA
2	1ST HIGHEST VALUE IS	11.98408 AT (	553735.81,	4161769.50,	34.46,	1.50)	DC	NA
	2ND HIGHEST VALUE IS	11.84683 AT (	553797.56,	4161707.25,	32.53,	1.50)	DC	NA
	3RD HIGHEST VALUE IS	11.73425 AT (	553759.19,	4161743.25,	33.93,	1.50)	DC	NA
	4TH HIGHEST VALUE IS	11.35542 AT (	553723.06,	4161782.25,	33.13,	1.50)	DC	NA
	5TH HIGHEST VALUE IS	11.28435 AT (	553803.56,	4161698.00,	32.51,	1.50)	DC	NA
	6TH HIGHEST VALUE IS	11.23354 AT (	553811.38,	4161690.25,	32.52,	1.50)	DC	NA
	7TH HIGHEST VALUE IS	11.06565 AT (	553819.25,	4161680.00,	33.35,	1.50)	DC	NA
	8TH HIGHEST VALUE IS	10.95996 AT (	553703.25,	4161804.25,	33.04,	1.50)	DC	NA
	9TH HIGHEST VALUE IS	10.08659 AT (	553680.56,	4161829.75,	33.46,	1.50)	DC	NA
	10TH HIGHEST VALUE IS	9.55028 AT (	553832.50,	4161657.75,	33.26,	1.50)	DC	NA
ALL	1ST HIGHEST VALUE IS	14.95346 AT (	553914.06,	4161744.00,	30.14,	1.50)	DC	NA
	2ND HIGHEST VALUE IS	14.34954 AT (	553946.69,	4161766.00,	29.96,	1.50)	DC	NA
	3RD HIGHEST VALUE IS	13.07336 AT (	553904.19,	4161753.75,	30.28,	1.50)	DC	NA
	4TH HIGHEST VALUE IS	12.81860 AT (	553797.56,	4161707.25,	32.53,	1.50)	DC	NA
	5TH HIGHEST VALUE IS	12.60146 AT (	553735.81,	4161769.50,	34.46,	1.50)	DC	NA
	6TH HIGHEST VALUE IS	12.43947 AT (	553759.19,	4161743.25,	33.93,	1.50)	DC	NA
	7TH HIGHEST VALUE IS	12.35341 AT (	553811.38,	4161690.25,	32.52,	1.50)	DC	NA
	8TH HIGHEST VALUE IS	12.31009 AT (	553803.56,	4161698.00,	32.51,	1.50)	DC	NA
	9TH HIGHEST VALUE IS	12.29454 AT (	553819.25,	4161680.00,	33.35,	1.50)	DC	NA
	10TH HIGHEST VALUE IS	11.93046 AT (	553723.06,	4161782.25,	33.13,	1.50)	DC	NA

```
 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
                      BD = BOUNDARY


 *** ISCST3 - VERSION 02035 ***    *** COMI-01 TOD #1                                                    ***        04/20/15
                                   *** Construction HRA                                                  ***        14:03:14
**MODELOPTs:                                                                                                        PAGE  33
CONC                    URBAN ELEV  FLGPOL DFAULT


*** Message Summary : ISCST3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            1 Warning Message(s)
A Total of           41 Informational Message(s)

A Total of           41 Calm Hours Identified


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
RE W282   989 CHK_EL:RecElev < SrcBase; See non-DFAULT HE>ZI option in  MCB#9

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
```

TOD#1 Construction - Spatial Averaging
Unit Emission Rates (1 g/s)

```
*** ISCST3 - VERSION 02035 ***    *** COMI-01 TOD #1                                                    ***        04/21/15
                                   *** Construction HRA                                                  ***        15:11:20
**MODELOPTs:                                                                                                        PAGE   1
CONC                    URBAN ELEV  FLGPOL DFAULT

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses Regulatory DEFAULT Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Use Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           8. "Upper Bound" Values for Supersquat Buildings.
           9. No Exponential Decay for URBAN/Non-SO2

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:    13 Source(s);      3 Source Group(s); and      64 Receptor(s)

**The Model Assumes A Pollutant Type of:  OTHER

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours
```

```
**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.2 MB of RAM.

**Input Runstream File:          TOD1avg.INP
**Output Print File:             TOD1avg.OUT
**Detailed Error/Message File:   TOD1avg.err
```

CONC URBAN ELEV FLGPOL DEFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(553914.1,	4161744.0,	30.1,	1.5);	(553914.1,	4161749.0,	30.2,	1.5);
(553914.1,	4161754.0,	30.2,	1.5);	(553914.1,	4161759.0,	30.2,	1.5);
(553916.6,	4161748.2,	30.1,	1.5);	(553919.1,	4161752.8,	30.1,	1.5);
(553921.6,	4161757.0,	30.1,	1.5);	(553918.4,	4161746.5,	30.1,	1.5);
(553922.8,	4161749.0,	30.1,	1.5);	(553927.1,	4161751.5,	30.1,	1.5);
(553909.8,	4161741.5,	30.2,	1.5);	(553905.4,	4161739.0,	30.2,	1.5);
(553901.1,	4161736.5,	30.2,	1.5);	(553909.1,	4161744.0,	30.2,	1.5);
(553904.1,	4161744.0,	30.2,	1.5);	(553899.1,	4161744.0,	30.3,	1.5);
(553909.8,	4161746.5,	30.2,	1.5);	(553905.4,	4161749.0,	30.2,	1.5);
(553901.1,	4161751.5,	30.3,	1.5);	(553911.6,	4161748.2,	30.2,	1.5);
(553909.1,	4161752.8,	30.2,	1.5);	(553906.6,	4161757.0,	30.3,	1.5);
(553946.7,	4161771.0,	30.0,	1.5);	(553946.7,	4161776.0,	30.0,	1.5);
(553946.7,	4161781.0,	28.9,	1.5);	(553949.2,	4161770.2,	30.0,	1.5);
(553951.7,	4161774.8,	29.2,	1.5);	(553954.2,	4161779.0,	29.2,	1.5);
(553951.0,	4161768.5,	29.2,	1.5);	(553955.4,	4161771.0,	29.2,	1.5);
(553959.7,	4161773.5,	29.1,	1.5);	(553942.4,	4161763.5,	30.0,	1.5);
(553938.0,	4161761.0,	30.0,	1.5);	(553933.7,	4161758.5,	30.0,	1.5);
(553941.7,	4161766.0,	30.0,	1.5);	(553936.7,	4161766.0,	30.0,	1.5);
(553931.7,	4161766.0,	30.1,	1.5);	(553942.4,	4161768.5,	30.0,	1.5);
(553938.0,	4161771.0,	30.0,	1.5);	(553933.7,	4161773.5,	30.1,	1.5);
(553944.2,	4161770.2,	30.0,	1.5);	(553941.7,	4161774.8,	30.0,	1.5);
(553939.2,	4161779.0,	30.1,	1.5);	(553739.0,	4161765.8,	34.4,	1.5);
(553742.2,	4161761.8,	34.4,	1.5);	(553745.4,	4161758.0,	34.3,	1.5);
(553736.7,	4161764.5,	34.5,	1.5);	(553737.6,	4161759.8,	34.4,	1.5);
(553738.4,	4161754.8,	34.4,	1.5);	(553734.1,	4161764.8,	34.5,	1.5);
(553732.4,	4161760.0,	34.5,	1.5);	(553730.7,	4161755.5,	34.6,	1.5);
(553732.0,	4161766.3,	34.5,	1.5);	(553728.1,	4161763.0,	34.6,	1.5);
(553724.3,	4161759.8,	34.6,	1.5);	(553730.9,	4161768.8,	34.5,	1.5);
(553725.9,	4161767.8,	34.6,	1.5);	(553721.1,	4161767.0,	34.7,	1.5);
(553731.1,	4161771.2,	34.5,	1.5);	(553726.4,	4161773.0,	34.6,	1.5);
(553721.7,	4161774.8,	34.6,	1.5);	(553732.6,	4161773.2,	34.5,	1.5);
(553729.4,	4161777.2,	34.5,	1.5);	(553726.2,	4161781.0,	33.1,	1.5);

**MODELOPTs:
CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): 1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
553946.69	4161771.00	10.11407	553946.69	4161776.00	9.29387
553946.69	4161781.00	8.54316	553949.19	4161770.25	10.55825
553951.69	4161774.75	10.02526	553954.19	4161779.00	9.50660
553951.00	4161768.50	11.13827	553955.38	4161771.00	11.19397
553959.69	4161773.50	11.15846	553942.38	4161763.50	10.84494
553938.00	4161761.00	10.60795	553933.69	4161758.50	10.33529
553941.69	4161766.00	10.31045	553936.69	4161766.00	9.63357
553931.69	4161766.00	8.98963	553942.38	4161768.50	9.99076
553938.00	4161771.00	9.08537	553933.69	4161773.50	8.29652
553944.19	4161770.25	9.93383	553941.69	4161774.75	8.96540
553939.19	4161779.00	8.15998			

Concentrations averaged around MER location

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034, L0000035, L0000036,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
553946.69	4161771.00	3.24599	553946.69	4161776.00	3.16580
553946.69	4161781.00	3.00880	553949.19	4161770.25	3.16509
553951.69	4161774.75	2.96274	553954.19	4161779.00	2.82506
553951.00	4161768.50	3.07598	553955.38	4161771.00	2.89192
553959.69	4161773.50	2.72547	553942.38	4161763.50	3.55232
553938.00	4161761.00	3.80110	553933.69	4161758.50	4.07392
553941.69	4161766.00	3.53416	553936.69	4161766.00	3.75430
553931.69	4161766.00	3.98873	553942.38	4161768.50	3.45923
553938.00	4161771.00	3.59220	553933.69	4161773.50	3.72246
553944.19	4161770.25	3.35498	553941.69	4161774.75	3.37266
553939.19	4161779.00	3.38826			

Concentrations averaged around MER location

```
**MODELOPTs:
CONC                    URBAN ELEV  FLGPOL DFAULT


*** Message Summary : ISCST3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            1 Warning Message(s)
A Total of           41 Informational Message(s)

A Total of           41 Calm Hours Identified


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
RE W282   826 CHK_EL:RecElev < SrcBase; See non-DFAULT HE>ZI option in  MCB#9

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
```

BAAQMD Meteorological Site

Name: San Mateo STP
Site ID: 6801
Start Date:1/1/1992
End Date: current
Operator: Non-District
Latitude: 37.5702
Longitude: 122.2949
Elevation: 3 m
Wind Height:10 m
UTM - East: 562.266
UTM - North: 4158.362
County: San Mateo
Sensors: ws,wd,temp RH,precip

Files for Downloading

Year	ASCII	ISCST3 300 m mixing height	ISCST3 600 m mixing height
2005	metdata6801-05met.zip	metdata6801-05300.zip	metdata6801-05600.zip
2004	metdata6801-04met.zip	metdata6801-04300.zip	metdata6801-04600.zip
2003	metdata6801-03met.zip	metdata6801-03300.zip	metdata6801-03600.zip
2002	metdata6801-02met.zip	metdata6801-02300.zip	metdata6801-02600.zip
2001	A	A	A
2000	A	A	A
1999	metdata6801-99met.zip	metdata6801-993ra.zip	metdata6801-996ra.zip
1998	metdata6801-98met.zip	metdata6801-98300.zip	metdata6801-98600.zip
1997	metdata6801-97met.zip	A	A
1996	metdata6801-96met.zip	metdata6801-96300.zip	metdata6801-96600.zip
1995	metdata6801-95met.zip	metdata6801-95300.zip	metdata6801-95600.zip
1994	metdata6801-94met.zip	metdata6801-94300.zip	metdata6801-94600.zip
1993	metdata6801-93met.zip	metdata6801-93300.zip	metdata6801-93600.zip
1992	metdata6801-92met.zip	A	A

Note: An “A” instead of a filename for any given year in the ASCII column signifies the data are missing. An “A” in the ISCST3 columns indicates the data are either missing or do not meet the EPA 90% data capture rate required for regulatory modeling applications.

Table C1
MER Spatial Averaging

Model Output Calculations - Spatial Averaging around MER				
Emission Source (a)	ISCST3 Output [1] ($\mu g/m^3$) (b)		Emission Source (c)	ISCST3 Output [1] ($\mu g/m^3$) (d)
	Annual Average			Annual Average
Onsite	10.1		Offsite	3.25
	8.54			3.01
	10.0			2.96
	11.1			3.08
	11.2			2.73
	10.6			3.80
	10.3			3.53
	8.99			3.99
	9.09			3.59
	9.93			3.35
	9.29			3.39
	10.6			3.17
	9.51			3.17
	11.2			2.83
	10.8			2.89
	10.3			3.55
	9.63			4.07
	9.99			3.75
	8.30			3.46
	8.97			3.72
	8.16			3.37
Onsite Average Around MER	9.84		Offsite Average Around MER	3.36

Note: Maximum Exposed Receptor (MER); UTM coordinates: 553946.69, 4161766
MER (resident immediately northwest of TOD1) is within 25 meters of source (construction area). Therefore, a spatially averaged concentration, centered around the MER, was determined using a polar receptor grid with a 15 meter radius and receptor spacing of 5 meters, per OEHHA 2015 guidance.

[1] ISCST3 Output based on unit emission rates for sources (1 g/s).

Table C2
MER Concentrations

Model Output Calculations - Residential Receptors (unmitigated)					
Emission Source (a)	ISCST3 Output [1] ($\mu g/m^3$) (b)	Pollutant (c)	Emission Rates [2] (g/s) (d)	Scalar [3] (e)	MER Concentrations ($\mu g/m^3$) (f)
	Annual Average		Average Daily		Annual Average
2016 Onsite	9.84	DPM	3.57E-02	0.926	**3.26E-01**
		$PM_{2.5}$	4.96E-02	0.926	**4.52E-01**
2016 Offsite	3.36	DPM	1.83E-05	0.926	**5.72E-05**
		$PM_{2.5}$	4.84E-05	0.926	**1.51E-04**
2017 Onsite	9.84	DPM	5.20E-02	1.000	**5.12E-01**
		$PM_{2.5}$	6.36E-02	1.000	**6.26E-01**
2017 Offsite	3.36	DPM	2.41E-05	1.000	**8.11E-05**
		$PM_{2.5}$	7.36E-05	1.000	**2.48E-04**
2018 Onsite	9.84	DPM	2.66E-02	1.000	**2.62E-01**
		$PM_{2.5}$	3.27E-02	1.000	**3.22E-01**
2018 Offsite	3.36	DPM	2.17E-06	1.000	**7.28E-06**
		$PM_{2.5}$	2.51E-05	1.000	**8.43E-05**
2019 Onsite	9.84	DPM	1.97E-02	1.000	**1.94E-01**
		$PM_{2.5}$	1.87E-02	1.000	**1.84E-01**
2019 Offsite	3.36	DPM	1.97E-06	1.000	**6.64E-06**
		$PM_{2.5}$	2.65E-05	1.000	**8.91E-05**
Model Output Calculations - with Mitigation (Tier 3 Engines and Level 3 Diesel Particulate Filters)					
2016 Onsite	9.84	DPM	3.64E-03	0.926	**3.31E-02**
		$PM_{2.5}$	2.03E-02	0.926	**1.85E-01**
2016 Offsite	3.36	DPM	1.42E-05	0.926	**4.42E-05**
		$PM_{2.5}$	3.78E-05	0.926	**1.18E-04**
2017 Onsite	9.84	DPM	1.15E-02	1.000	**1.13E-01**
		$PM_{2.5}$	2.67E-02	1.000	**2.63E-01**
2017 Offsite	3.36	DPM	1.87E-05	1.000	**6.29E-05**
		$PM_{2.5}$	5.83E-05	1.000	**1.96E-04**
2018 Onsite	9.84	DPM	9.35E-03	1.000	**9.20E-02**
		$PM_{2.5}$	1.70E-02	1.000	**1.67E-01**
2018 Offsite	3.36	DPM	2.17E-06	1.000	**7.28E-06**
		$PM_{2.5}$	2.35E-05	1.000	**7.91E-05**
2019 Onsite	9.84	DPM	7.58E-03	1.000	**7.46E-02**
		$PM_{2.5}$	7.58E-03	1.000	**7.46E-02**
2019 Offsite	3.36	DPM	1.97E-06	1.000	**6.64E-06**
		$PM_{2.5}$	2.47E-05	1.000	**8.32E-05**

TOD1 MER UTM coordinates: 553946.69, 4161766

[1] ISCST3 Output based on unit emission rates for sources (1 g/s).

[2] Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions).

[3] Scalar applied to adjust yearly ISCST3 emissions to duration of construction activities

Table C3
Quantification of Carcinogenic Risks

	Source	MER Conc. ($\mu g/m^3$)	Weight Fraction	Contaminant	URF $(\mu g/m^3)^{-1}$	CPF $(mg/kg/day)^{-1}$	Dose (by age bin) 3rd Trimester (mg/kg-day)	0 < 2 years (mg/kg-day)	2 < 16 years (mg/kg-day)	16 < 70 years (mg/kg-day)	Carcinogenic Risks (by age bin) 3rd Trimester per million	0 < 2 years per million	2 < 16 years per million	16 < 70 years per million	**Total Risk** per million
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
Unmitigated															
2016	On-Site Emissions	3.26E-01	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-04	3.4E-04			3.60E+00	3.26E+01			3.62E+01
	Truck Route	5.72E-05	1.00E+00		3.0E-04	1.1E+00	2.0E-08	6.0E-08			6.31E-04	5.71E-03			6.34E-03
2017	On-Site Emissions	5.12E-01	1.00E+00		3.0E-04	1.1E+00		5.4E-04				6.82E+01			6.82E+01
	Truck Route	8.11E-05	1.00E+00		3.0E-04	1.1E+00		8.5E-08				1.08E-02			1.08E-02
2018	On-Site Emissions	2.62E-01	1.00E+00		3.0E-04	1.1E+00		2.7E-04	1.9E-04			8.72E+00	4.54E+00		1.33E+01
	Truck Route	7.28E-06	1.00E+00		3.0E-04	1.1E+00		7.6E-09	5.2E-09			2.43E-04	1.26E-04		3.69E-04
2019	On-Site Emissions	1.94E-01	1.00E+00		3.0E-04	1.1E+00			1.4E-04				4.48E+00		4.48E+00
	Truck Route	6.64E-06	1.00E+00		3.0E-04	1.1E+00			4.7E-09				1.54E-04		1.54E-04
													Total Cancer Risk		**122**
Mitigated Run - Tier 3 Engines and Level 3 Diesel Particulate Filters for equipment 50 HP or greater															
2016	On-Site Emissions	3.31E-02	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-05	3.5E-05			3.66E-01	3.31E+00			3.68E+00
	Truck Route	4.42E-05	1.00E+00		3.0E-04	1.1E+00	1.5E-08	4.6E-08			4.88E-04	4.42E-03			4.91E-03
2017	On-Site Emissions	1.13E-01	1.00E+00		3.0E-04	1.1E+00		1.2E-04				1.50E+01			1.50E+01
	Truck Route	6.29E-05	1.00E+00		3.0E-04	1.1E+00		6.6E-08				8.38E-03			8.38E-03
2018	On-Site Emissions	9.20E-02	1.00E+00		3.0E-04	1.1E+00		9.6E-05	6.6E-05			3.07E+00	1.60E+00		4.66E+00
	Truck Route	7.28E-06	1.00E+00		3.0E-04	1.1E+00		7.6E-09	5.2E-09			2.43E-04	1.26E-04		3.69E-04
2019	On-Site Emissions	7.46E-02	1.00E+00		3.0E-04	1.1E+00			5.3E-05				1.73E+00		1.73E+00
	Truck Route	6.64E-06	1.00E+00		3.0E-04	1.1E+00			4.7E-09				1.54E-04		1.54E-04
													Total Cancer Risk		**25.1**

TOD1 MER UTM coordinates: 553946.69, 4161766

		3rd Trimester	0 < 2 years	2 < 16 years	16 < 70 years
	exposure year(s)	2016	2016-2018	2018-2020	n/a
Dose Exposure Factors:	exposure frequency (days/year)	350	350	350	350
	inhalation rate (L/kg-day) [1]	361	1090	745	290
	inhalation absorption factor	1	1	1	1
Risk Calculation Factors:	age sensitivity factor	10	10	3	1
	exposure duration (year)	0.25	0.75 / 1 / 0.25	0.75 / 1 / 1	n/a
	year	2016	2016/2017/2018	2018/2019/2020	
	averaging time (years)	70	70	70	70
	fraction of time at home	0.85	0.85	0.72	0.73

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

Combining TOD2 Construction Emissions

Unmitigated Cancer Risk at MER from TOD2	6.0
Total Unmitigated Cancer Risk at MER	**128**
Mitigated Cancer Risk at MER from TOD2	1.8
Total Mitigated Cancer Risk at MER	**27.0**

Table C4
Quantification of Non-Carcinogenic Risks
Chronic Hazards

Source		REL Type	MER Conc. ($\mu g/m^3$)	Weight Fraction	Contaminant	Chronic Hazards / Toxicological Endpoints*								
						REL ($\mu g/m^3$)	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)		(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
Unmitigated														
2016	On-Site Emissions	Chronic	3.26E-01	1.00E+00	Diesel Particulate	5.0E+00	6.5E-02							
	Truck Route		5.72E-05	1.00E+00		5.0E+00	1.1E-05							
2017	On-Site Emissions		5.12E-01	1.00E+00		5.0E+00	1.0E-01							
	Truck Route		8.11E-05	1.00E+00		5.0E+00	1.6E-05							
2018	On-Site Emissions		2.62E-01	1.00E+00		5.0E+00	5.2E-02							
	Truck Route		7.28E-06	1.00E+00		5.0E+00	1.5E-06							
2019	On-Site Emissions		1.94E-01	1.00E+00		5.0E+00	3.9E-02							
	Truck Route		6.64E-06	1.00E+00		5.0E+00	1.3E-06							
TOTAL							2.6E-01	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
					Maximum Chronic Hazard		**0.259**							
Mitigated Run - Tier 3 Engines and Level 3 Diesel Particulate Filters for equipment 50 HP or greater														
2016	On-Site Emissions	Chronic	3.31E-02	1.00E+00	Diesel Particulate	5.0E+00	6.6E-03							
	Truck Route		4.42E-05	1.00E+00		5.0E+00	8.8E-06							
2017	On-Site Emissions		1.13E-01	1.00E+00		5.0E+00	2.3E-02							
	Truck Route		6.29E-05	1.00E+00		5.0E+00	1.3E-05							
2018	On-Site Emissions		9.20E-02	1.00E+00		5.0E+00	1.8E-02							
	Truck Route		7.28E-06	1.00E+00		5.0E+00	1.5E-06							
2019	On-Site Emissions		7.46E-02	1.00E+00		5.0E+00	1.5E-02							
	Truck Route		6.64E-06	1.00E+00		5.0E+00	1.3E-06							
TOTAL							6.3E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
					Maximum Chronic Hazard		**0.063**							

* Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
REPRO	Reproductive System
EYES	Eye irritation and/or other effects

Combining TOD2 Construction Emissions

Unmitigated Chronic Hazards at MER from TOD2	0.014
Total Unmitigated Chronic Hazards at MER	0.273
Mitigated Chronic Hazards at MER from TOD2	0.005
Total Mitigated Chronic Hazards at MER	0.068

Table C5
$PM_{2.5}$ Concentrations

Contaminant (a)	Source (b)		MER Conc. ($\mu g/m^3$) (c)	Concentration Annual Average ($\mu g/m^3$) (d)
Unmitigated				
$PM_{2.5}$	2016	On-Site Emissions	4.52E-01	0.45
		Truck Route	1.51E-04	
	2017	On-Site Emissions	6.26E-01	0.63
		Truck Route	2.48E-04	
	2018	On-Site Emissions	3.22E-01	0.32
		Truck Route	8.43E-05	
	2019	On-Site Emissions	1.84E-01	0.18
		Truck Route	8.91E-05	
	Maximum Annual $PM_{2.5}$ Concentration			**0.63**

Mitigated Run - Tier 3 Engines & Level 3 DPFs for equipment 50 HP or greater				
$PM_{2.5}$	2016	On-Site Emissions	1.85E-01	0.19
		Truck Route	1.18E-04	
	2017	On-Site Emissions	2.63E-01	0.26
		Truck Route	1.96E-04	
	2018	On-Site Emissions	1.67E-01	0.17
		Truck Route	7.91E-05	
	2019	On-Site Emissions	7.46E-02	0.07
		Truck Route	8.32E-05	
	Maximum Annual $PM_{2.5}$ Concentration			**0.26**

Combining TOD2 Construction Emissions

Unmitigated $PM_{2.5}$ at MER from TOD2	0.04
Total Unmitigated $PM_{2.5}$ at MER	0.66
Mitigated $PM_{2.5}$ at MER from TOD2	0.02
Total Mitigated $PM_{2.5}$ at MER	0.28

Table C6
Adult Exposure Scenario - 70 Years
OEHHA 2003 Guidance

Source	Mass GLC	Weight Fraction	Contaminant	Carcinogenic Risk		
				CPF	DOSE *	RISK
	($\mu g/m^3$)			$(mg/kg/day)^{-1}$	(mg/kg/day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Unmitigated						
2016 On-Site Emissions	3.26E-01	1.00E+00	Diesel Particulate	1.1E+00	1.3E-06	1.5E-06
2016 Truck Route	5.72E-05	1.00E+00		1.1E+00	2.4E-10	2.6E-10
2017 On-Site Emissions	5.12E-01	1.00E+00		1.1E+00	2.1E-06	2.3E-06
2017 Truck Route	8.11E-05	1.00E+00		1.1E+00	3.4E-10	3.7E-10
2018 On-Site Emissions	2.62E-01	1.00E+00		1.1E+00	1.1E-06	1.2E-06
2018 Truck Route	7.28E-06	1.00E+00		1.1E+00	3.0E-11	3.3E-11
2019 On-Site Emissions	1.94E-01	1.00E+00		1.1E+00	8.0E-07	8.8E-07
2019 Truck Route	6.64E-06	1.00E+00		1.1E+00	2.7E-11	3.0E-11
			TOTAL			5.9E-06
			BAAQMD Cancer Risk Adjustment Factor - 70-year Adult Scenario			1.7
			Adjusted Cancer Risk (per million)			**9.93**
Mitigated Run - Tier 3 Engines and Level 3 Diesel Particulate Filters for equipment 50 HP or greater						
2016 On-Site Emissions	3.31E-02	1.00E+00	Diesel Particulate	1.1E+00	1.4E-07	1.5E-07
2016 Truck Route	4.42E-05	1.00E+00		1.1E+00	1.8E-10	2.0E-10
2017 On-Site Emissions	1.13E-01	1.00E+00		1.1E+00	4.7E-07	5.1E-07
2017 Truck Route	6.29E-05	1.00E+00		1.1E+00	2.6E-10	2.9E-10
2018 On-Site Emissions	9.20E-02	1.00E+00		1.1E+00	3.8E-07	4.2E-07
2018 Truck Route	7.28E-06	1.00E+00		1.1E+00	3.0E-11	3.3E-11
2019 On-Site Emissions	7.46E-02	1.00E+00		1.1E+00	3.1E-07	3.4E-07
2019 Truck Route	6.64E-06	1.00E+00		1.1E+00	2.7E-11	3.0E-11
			TOTAL			1.4E-06
			BAAQMD Cancer Risk Adjustment Factor - 70-year Adult Scenario			1.7
			Adjusted Cancer Risk (per million)			**2.40**

* Exposure factors used to calculate dose

daily breathing rate (L/kg-day) - resident	302
inhalation absorption factor	1.0
exposure frequency (days/year) - residents	350
exposure duration (years)	1.0
averaging time (days) - 70 year duration	25,550
fraction of time at home	1.0

Combining TOD2 Construction Emissions

Unmitigated Cancer Risk at MER from TOD2	0.55
Total Unmitigated Cancer Risk at MER	**10.5**
Mitigated Cancer Risk at MER from TOD2	0.20
Total Mitigated Cancer Risk at MER	**2.60**

Source: Bay Area Air Quality Management District (BAAQMD), 2012. Recommended Methods for Screening and Modeling Local Risks and Hazards. Dated May 2012.

Table C7
Child Exposure Scenario - 9 Years
OEHHA 2003 Guidance

Source	Mass GLC	Weight Fraction	Contaminant	Carcinogenic Risk		
				CPF	DOSE *	RISK
	($\mu g/m^3$)			$(mg/kg/day)^{-1}$	(mg/kg/day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Unmitigated						
2016 On-Site Emissions	3.26E-01	1.00E+00	Diesel Particulate	1.1E+00	2.6E-06	2.9E-06
2016 Truck Route	5.72E-05	1.00E+00		1.1E+00	4.5E-10	5.0E-10
2017 On-Site Emissions	5.12E-01	1.00E+00		1.1E+00	4.1E-06	4.5E-06
2017 Truck Route	8.11E-05	1.00E+00		1.1E+00	6.5E-10	7.1E-10
2018 On-Site Emissions	2.62E-01	1.00E+00		1.1E+00	2.1E-06	2.3E-06
2018 Truck Route	7.28E-06	1.00E+00		1.1E+00	5.8E-11	6.4E-11
2019 On-Site Emissions	1.94E-01	1.00E+00		1.1E+00	1.5E-06	1.7E-06
2019 Truck Route	6.64E-06	1.00E+00		1.1E+00	5.3E-11	5.8E-11
			TOTAL			1.1E-05
			BAAQMD Cancer Risk Adjustment Factor - 9-year Child Scenario			4.7
			Adjusted Cancer Risk (per million)			**53.2**
Mitigated Run - Tier 3 Engines and Level 3 Diesel Particulate Filters for equipment 50 HP or greater						
2016 On-Site Emissions	3.31E-02	1.00E+00	Diesel Particulate	1.1E+00	2.6E-07	2.9E-07
2016 Truck Route	4.42E-05	1.00E+00		1.1E+00	3.5E-10	3.9E-10
2017 On-Site Emissions	1.13E-01	1.00E+00		1.1E+00	9.0E-07	9.9E-07
2017 Truck Route	6.29E-05	1.00E+00		1.1E+00	5.0E-10	5.5E-10
2018 On-Site Emissions	9.20E-02	1.00E+00		1.1E+00	7.3E-07	8.1E-07
2018 Truck Route	7.28E-06	1.00E+00		1.1E+00	5.8E-11	6.4E-11
2019 On-Site Emissions	7.46E-02	1.00E+00		1.1E+00	5.9E-07	6.5E-07
2019 Truck Route	6.64E-06	1.00E+00		1.1E+00	5.3E-11	5.8E-11
			TOTAL			2.7E-06
			BAAQMD Cancer Risk Adjustment Factor - 9-year Child Scenario			4.7
			Adjusted Cancer Risk (per million)			**12.9**

* Exposure factors used to calculate dose

daily breathing rate (L/kg-day) - child	581
inhalation absorption factor	1.0
exposure frequency (days/year) - residents	350
exposure duration (years)	1.0
averaging time (days) - 70 year duration	25,550
fraction of time at home	1.0

Combining TOD2 Construction Emissions

Unmitigated Cancer Risk at MER from TOD2	3.00
Total Unmitigated Cancer Risk at MER	**56.2**
Mitigated Cancer Risk at MER from TOD2	1.00
Total Mitigated Cancer Risk at MER	**13.9**

Source: Bay Area Air Quality Management District (BAAQMD), 2012. Recommended Methods for Screening and Modeling Local Risks and Hazards. Dated May 2012.

TOD #2 Construction HRA Modeling Files

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Construction Emissions - DPM and PM2.5
Input to ISCST3 Model

Onsite Construction Emissions		DPM [1]	$PM_{2.5}$ [2]
2016 Onsite Emissions	Average Daily Emissions (lbs/day)	2.31	2.80
	Average Daily Emissions (lbs/hr)	2.89E-01	3.50E-01
	Emission Rate (g/s)	3.64E-02	4.41E-02
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**5.53E-07**	**6.70E-07**
2017 Onsite Emissions	Average Daily Emissions (lbs/day)	1.02	0.97
	Average Daily Emissions (lbs/hr)	1.27E-01	1.21E-01
	Emission Rate (g/s)	1.60E-02	1.52E-02
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**2.44E-07**	**2.31E-07**
2018 Onsite Emissions	Average Daily Emissions (lbs/day)	0.84	0.81
	Average Daily Emissions (lbs/hr)	1.06E-01	1.01E-01
	Emission Rate (g/s)	1.33E-02	1.27E-02
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**2.02E-07**	**1.93E-07**
2019 Onsite Emissions	Average Daily Emissions (lbs/day)	0.67	0.64
	Average Daily Emissions (lbs/hr)	8.39E-02	8.01E-02
	Emission Rate (g/s)	1.06E-02	1.01E-02
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**1.61E-07**	**1.53E-07**
2020 Onsite Emissions	Average Daily Emissions (lbs/day)	0.94	1.04
	Average Daily Emissions (lbs/hr)	1.17E-01	1.30E-01
	Emission Rate (g/s)	1.48E-02	1.63E-02
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**2.25E-07**	**2.48E-07**

Note: Emissions assumed to be evenly distributed over entire construction phase area.

Offsite Construction Emissions		DPM [1]	$PM_{2.5}$ [2]
2016 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.07	0.46
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	2.13E-03	1.35E-02
	Emission Rate (lbs/hr)	2.66E-04	1.69E-03
	Emission Rate (g/s)	3.36E-05	2.12E-04
	Number of Sources	34	34
	Emission Rate per Source (g/s/source)	**9.87E-07**	**6.25E-06**
2017 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.22	1.61
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	6.49E-03	4.74E-02
	Emission Rate (lbs/hr)	8.11E-04	5.92E-03
	Emission Rate (g/s)	1.02E-04	7.46E-04
	Number of Sources in ISCST3 Model	34	34
	Emission Rate per Source (g/s/source)	**3.01E-06**	**2.19E-05**
2018 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.19	1.52
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	5.65E-03	4.48E-02
	Emission Rate (lbs/hr)	7.07E-04	0.005600479
	Emission Rate (g/s)	8.90E-05	7.06E-04
	Number of Sources in ISCST3 Model	34	34
	Emission Rate per Source (g/s/source)	**2.62E-06**	**2.08E-05**
2019 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.02	0.12
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	5.13E-04	3.48E-03
	Emission Rate (lbs/hr)	6.41E-05	4.35E-04
	Emission Rate (g/s)	8.08E-06	5.48E-05
	Number of Sources	34	34
	Emission Rate per Source (g/s/source)	**2.38E-07**	**1.61E-06**
2020 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.01	0.11
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	3.76E-04	3.18E-03
	Emission Rate (lbs/hr)	4.70E-05	3.98E-04
	Emission Rate (g/s)	5.93E-06	5.01E-05
	Number of Sources in ISCST3 Model	34	34
	Emission Rate per Source (g/s/source)	**1.74E-07**	**1.47E-06**

Note: Emissions evenly distributed over 34 modeled volume sources.

Construction Emissions - DPM and PM2.5
Input to ISCST3 Model

	2016	2017	2018	2019	2020
Hours per work day (7:00 AM to 4:00 PM, 1-hour lunch break)	8	8	8	8	8
Total calendar days per year	366	365	365	365	305
Scalar for HROFDY in ISCST3 model	1.00	1.00	1.00	1.00	0.83

	Demolition	Grading
Haul Length (miles)	20	
Number of Haul Trips	333	
Proportioned Hauling Length (miles)	**20**	
Haul Length within 1,000 ft of Site (mile)	**0.59**	

[1] DPM emissions taken as PM_{10} exhaust emissions from CalEEMod average daily emissions.

[2] $PM_{2.5}$ emissions taken as total $PM_{2.5}$ (exhaust and fugitive dust) emissions from CalEEMod average daily emissions.

[3] Emissions from CalEEMod offsite average daily emissions, which is based on haul truck trip distance of 20 miles proportioned to evaluate emissions from the **0.59-**mile route within 1,000 of the project site.

Mitigated Construction Emissions - DPM and PM2.5
Diesel Particulate Filters Level 3 (for equipment > 75 HP)
Input to ISCST3 Model

Onsite Construction Emissions - Mitigated		DPM [1]	$PM_{2.5}$ [2]
2016 Onsite Emissions	Average Daily Emissions (lbs/day)	0.49	1.13
	Average Daily Emissions (lbs/hr)	6.07E-02	1.41E-01
	Emission Rate (g/s)	7.65E-03	1.78E-02
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**1.16E-07**	**2.71E-07**
2017 Onsite Emissions	Average Daily Emissions (lbs/day)	0.42	0.42
	Average Daily Emissions (lbs/hr)	5.23E-02	5.23E-02
	Emission Rate (g/s)	6.59E-03	6.59E-03
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**1.00E-07**	**1.00E-07**
2018 Onsite Emissions	Average Daily Emissions (lbs/day)	0.38	0.38
	Average Daily Emissions (lbs/hr)	4.74E-02	4.74E-02
	Emission Rate (g/s)	5.97E-03	5.97E-03
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**9.07E-08**	**9.07E-08**
2019 Onsite Emissions	Average Daily Emissions (lbs/day)	0.33	0.33
	Average Daily Emissions (lbs/hr)	4.11E-02	4.11E-02
	Emission Rate (g/s)	5.18E-03	5.18E-03
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**7.87E-08**	**7.87E-08**
2020 Onsite Emissions	Average Daily Emissions (lbs/day)	0.33	0.48
	Average Daily Emissions (lbs/hr)	4.11E-02	5.99E-02
	Emission Rate (g/s)	5.18E-03	7.55E-03
	Modeled Area (acres)	16.26	16.26
	Modeled Area (m^2)	65,818	65,818
	Emission Rate per Area ($g/s/m^2$)	**7.87E-08**	**1.15E-07**

Note: Emissions assumed to be evenly distributed over entire construction phase area.

Offsite Construction Emissions - Mitigated		DPM [1]	$PM_{2.5}$ [2]
2016 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.07	0.46
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	2.13E-03	1.35E-02
	Emission Rate (lbs/hr)	2.66E-04	1.69E-03
	Emission Rate (g/s)	3.36E-05	2.12E-04
	Number of Sources	34	34
	Emission Rate per Source (g/s/source)	**9.87E-07**	**6.25E-06**
2017 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.22	1.61
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	6.49E-03	4.74E-02
	Emission Rate (lbs/hr)	8.11E-04	5.92E-03
	Emission Rate (g/s)	1.02E-04	7.46E-04
	Number of Sources in ISCST3 Model	34	34
	Emission Rate per Source (g/s/source)	**3.01E-06**	**2.19E-05**
2018 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.19	1.52
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	5.65E-03	4.48E-02
	Emission Rate (lbs/hr)	7.07E-04	0.005600479
	Emission Rate (g/s)	8.90E-05	7.06E-04
	Number of Sources in ISCST3 Model	34	34
	Emission Rate per Source (g/s/source)	**2.62E-06**	**2.08E-05**
2019 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.02	0.12
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	5.13E-04	3.48E-03
	Emission Rate (lbs/hr)	6.41E-05	4.35E-04
	Emission Rate (g/s)	8.08E-06	5.48E-05
	Number of Sources	34	34
	Emission Rate per Source (g/s/source)	**2.38E-07**	**1.61E-06**
2020 Offsite Emissions	Haul Length Daily Emissions (lbs/day)	0.01	0.11
	Hauling Emissions w/in 1,000 ft (lbs/day) [3]	3.76E-04	3.18E-03
	Emission Rate (lbs/hr)	4.70E-05	3.98E-04
	Emission Rate (g/s)	5.93E-06	5.01E-05
	Number of Sources in ISCST3 Model	34	34
	Emission Rate per Source (g/s/source)	**1.74E-07**	**1.47E-06**

Note: Emissions evenly distributed over 34 modeled volume sources.

Mitigated Construction Emissions - DPM and PM2.5
Diesel Particulate Filters Level 3 (for equipment > 75 HP)
Input to ISCST3 Model

	2016	2017	2018	2019	2020
Hours per work day (7:00 AM to 4:00 PM, 1-hour lunch break)	8	8	8	8	8
Total calendar days per year	366	365	365	365	305
Scalar for HROFDY in ISCST3 model	1.00	1.00	1.00	1.00	0.83

	Demolition	Grading
Haul Length (miles)	20	
Number of Haul Trips	333	
Proportioned Hauling Length (miles)	**20**	
Haul Length within 1,000 ft of Site (mile)	**0.59**	

[1] DPM emissions taken as PM_{10} exhaust emissions from CalEEMod average daily emissions.

[2] $PM_{2.5}$ emissions taken as total $PM_{2.5}$ (exhaust and fugitive dust) emissions from CalEEMod average daily emissions.

[3] Emissions from CalEEMod offsite average daily emissions, which is based on haul truck trip distance of 20 miles proportioned to evaluate emissions from the **0.59-**mile route within 1,000 of the project site.

Construction Risk Assessment Emissions Worksheet - TOD #2 Unmitigated

Total Construction Workdays:

2016	261	days
2017	260	days
2018	261	days
2019	261	days
2020	218	days

Onsite Emissions

Tons/Year	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.30159	0.36549
2017	0.1323	0.1256
2018	0.11015	0.10508
2019	0.08759	0.08364
2020	0.10237	0.11306

Pounds/Day	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	2.31103	2.80069
2017	1.01769	0.96615
2018	0.84406	0.80521
2019	0.67119	0.64092
2020	0.93917	1.03725

Offsite Emissions

Tons/Year	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.00943	0.05965
2017	0.0286	0.2088
2018	0.02501	0.1982
2019	0.00227	0.0154
2020	0.00139	0.01176

Pounds/Day	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.07226	0.45709
2017	0.22000	1.60615
2018	0.19165	1.51877
2019	0.01739	0.11801
2020	0.01275	0.10789

Maximum Emissions per phase (tons/year)

Demolition P1

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0015
	Off-Road		0.0183	0.0168
	Total		**0.0183**	**0.0184**
Offsite				
	Hauling		0.00041	0.00085
	Vendor		6.00E-05	0.00013
	Worker		1.00E-05	0.00031
	Total		**4.80E-04**	**0.00129**
TOTAL			***0.0188***	***0.0197***

Trenching P1

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.00488	0.00449
	Total		**0.00488**	**0.00449**
Offsite				
	Hauling		0	0
	Vendor		6.00E-05	0.00012
	Worker		0.00E+00	0.00011
	Total		**6.00E-05**	**0.00023**
TOTAL			***0.0049***	***0.0047***

Fine Grading P1

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0338
	Off-Road		0.0835	0.0768
	Total		**0.0835**	**0.1107**
Offsite				
	Hauling		0	0
	Vendor		1.30E-04	0.00027
	Worker		3.00E-05	0.00101
	Total		**1.60E-04**	**0.00128**
TOTAL			***0.0837***	***0.1120***

Paving P1

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0139	0.0128
	Paving		0	0
	Total		**0.0139**	**0.0128**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		2.00E-05	0.00058
	Total		**2.00E-05**	**0.00058**
TOTAL			***0.0139***	***0.0134***

Architectural Coating P1			
		Exhaust PM10	PM2.5 Total
Onsite	**2016**		
	Architectural Coating	0.0000	0.0000
	Off-Road	0.00098	0.00098
	Total	**0.00098**	**0.00098**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	0.00E+00	0.00011
	Total	**0.00E+00**	**0.00011**
TOTAL		***0.0010***	***0.0011***

Demolition P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2016**		
	Fugitive Dust	0.0000	0.0008
	Off-Road	0.0192	0.0176
	Total	**0.0192**	**0.0184**
Offsite			
	Hauling	0.00021	0.00043
	Vendor	6.00E-05	0.00013
	Worker	1.00E-05	0.00033
	Total	**2.80E-04**	**0.00089**
TOTAL		***0.0195***	***0.0193***

Mass Grading P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2016**		
	Fugitive Dust	0.0000	0.0507
	Off-Road	0.1253	0.1153
	Total	**0.1253**	**0.166**
Offsite			
	Hauling	0	0
	Vendor	1.90E-04	0.0004
	Worker	5.00E-05	0.00152
	Total	**2.40E-04**	**0.00192**
TOTAL		***0.1255***	***0.1679***

Trenching P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2016**		
	Off-Road	0.00513	0.00472
	Total	**0.00513**	**0.00472**
Offsite			
	Hauling	0	0
	Vendor	6.00E-05	0.00013
	Worker	0.00E+00	0.00012
	Total	**6.00E-05**	**0.00025**
TOTAL		***0.0052***	***0.0050***

Mass Grading Pile Driver Use P2				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0000
	Off-Road		0.00821	0.00755
	Total		**0.00821**	**0.00755**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		0.00E+00	0.00016
	Total		**0.00E+00**	**0.00016**
TOTAL			***0.0082***	***0.0077***

Building Construction P2				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0304	0.029
	Total		**0.0304**	**0.029**
Offsite				
	Hauling		0	0
	Vendor		6.91E-03	0.0146
	Worker		1.22E-03	0.0385
	Total		**8.13E-03**	**0.0531**
TOTAL			***0.0385***	***0.0821***
Onsite		**2017**		
	Off-Road		0.1112	0.1062
	Total		**0.1112**	**0.1062**
Offsite				
	Hauling		0	0
	Vendor		2.40E-02	0.0551
	Worker		4.65E-03	0.1537
	Total		**2.86E-02**	**0.2088**
TOTAL			***0.1398***	***0.3150***
Onsite		**2018**		
	Off-Road		0.0871	0.0833
	Total		**0.0871**	**0.0833**
Offsite				
	Hauling		0	0
	Vendor		2.05E-02	0.0494
	Worker		4.14E-03	0.1418
	Total		**2.46E-02**	**0.1911**
TOTAL			***0.1117***	***0.2744***

Building Construction Crane Use P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2017**		
	Off-Road	0.0211	0.0194
	Total	**0.0211**	**0.0194**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	0.00E+00	0
	Total	**0.00E+00**	**0**
TOTAL		***0.0211***	***0.0194***

Architectural Coating P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2018**		
	Architectural Coating	0.0000	0.0000
	Off-Road	0.00339	0.00339
	Total	**0.00339**	**0.00339**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	1.60E-04	0.00532
	Total	**1.60E-04**	**0.00532**
TOTAL		***0.0036***	***0.0087***

Asphalt Paving P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2018**		
	Off-Road	0.0052	0.0048
	Paving	0	0
	Total	**0.00523**	**0.00483**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	1.00E-05	0.00029
	Total	**1.00E-05**	**0.00029**
TOTAL		***0.0052***	***0.0051***

Trenching P3			
		Exhaust PM10	PM2.5 Total
Onsite	**2018**		
	Off-Road	0.00381	0.00351
	Total	**0.00381**	**0.00351**
Offsite			
	Hauling	0	0
	Vendor	5.00E-05	0.00012
	Worker	0.00E+00	0.00012
	Total	**5.00E-05**	**0.00024**
TOTAL		***0.0039***	***0.0038***

Building Construction P3				
			Exhaust PM10	PM2.5 Total
Onsite		**2018**		
	Off-Road		0.00762	0.00729
	Total		**0.00762**	**0.00729**
Offsite				
	Hauling		0	0
	Vendor		1.70E-04	0.00041
	Worker		2.00E-05	0.00084
	Total		**1.90E-04**	**0.00125**
TOTAL			***0.0078***	***0.0085***
Onsite		**2019**		
	Off-Road		0.0819	0.0784
	Total		**0.0819**	**0.0784**
Offsite				
	Hauling		0	0
	Vendor		1.97E-03	0.00497
	Worker		3.00E-04	0.0105
	Total		**2.27E-03**	**0.0154**
TOTAL			***0.0842***	***0.0938***
Onsite		**2020**		
	Off-Road		0.0414	0.0396
	Total		**0.0414**	**0.0396**
Offsite				
	Hauling		0	0
	Vendor		1.03E-03	0.0028
	Worker		1.70E-04	0.00614
	Total		**1.20E-03**	**0.00894**
TOTAL			***0.0426***	***0.0485***

Building Construction Crane Use P3				
			Exhaust PM10	PM2.5 Total
Onsite		**2018**		
	Off-Road		0.003	0.00276
	Total		**0.003**	**0.00276**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**0.00E+00**	**0**
TOTAL			***0.0030***	***0.0028***
Onsite		**2019**		
	Off-Road		0.00569	0.00524
	Total		**0.00569**	**0.00524**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**0.00E+00**	**0**
TOTAL			***0.0057***	***0.0052***

Architectural Coating P3			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Architectural Coating	0.0000	0.0000
	Off-Road	0.00128	0.00128
	Total	**0.00128**	**0.00128**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	1.00E-05	0.00018
	Total	**1.00E-05**	**0.00018**
TOTAL		***0.0013***	***0.0015***

Demolition P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Fugitive Dust	0.0000	0.0001
	Off-Road	0.0126	0.0116
	Total	**0.0126**	**0.0117**
Offsite			
	Hauling	0.00001	0.00003
	Vendor	4.00E-05	0.00012
	Worker	1.00E-05	0.00034
	Total	**6.00E-05**	**0.00049**
TOTAL		***0.0127***	***0.0122***

Trenching P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Off-Road	0.00272	0.00251
	Total	**0.00272**	**0.00251**
Offsite			
	Hauling	0	0
	Vendor	4.00E-05	0.00011
	Worker	0.00E+00	0.00012
	Total	**4.00E-05**	**0.00023**
TOTAL		***0.0028***	***0.0027***

Fine Grading P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Fugitive Dust	0.0000	0.0169
	Off-Road	0.0266	0.0245
	Total	**0.0266**	**0.0414**
Offsite			
	Hauling	0	0
	Vendor	4.00E-05	0.00011
	Worker	1.00E-05	0.0005
	Total	**5.00E-05**	**0.00061**
TOTAL		***0.0267***	***0.0420***

Asphalt Paving P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Off-Road	0.0171	0.0159
	Paving	0	0
	Total	**0.0171**	**0.0159**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	3.00E-05	0.00116
	Total	**3.00E-05**	**0.00116**
TOTAL		***0.0171***	***0.0171***

Architectural Coating P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Architectural Coating	0.0000	0.0000
	Off-Road	0.00067	0.00067
	Total	**0.00067**	**0.00067**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	0.00E+00	0.00015
	Total	**0.00E+00**	**0.00015**
TOTAL		***0.0007***	***0.0008***

Construction Risk Assessment Emissions Worksheet - TOD #2 Mitigated

Total Construction Workdays:

2016	261	days
2017	260	days
2018	261	days
2019	261	days
2020	218	days

Onsite Emissions

Tons/Year	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.06342	0.14757
2017	0.05441	0.05441
2018	0.04946	0.04946
2019	0.04293	0.04293
2020	0.03585	0.05225

Pounds/Day	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.48598	1.13080
2017	0.41854	0.41854
2018	0.37900	0.37900
2019	0.32897	0.32897
2020	0.32890	0.47936

Offsite Emissions

Tons/Year	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.00943	0.05965
2017	0.0286	0.2088
2018	0.02501	0.1982
2019	0.00227	0.0154
2020	0.00139	0.01176

Pounds/Day	**DPM**	**PM2.5**
Year	Exhaust PM10	PM2.5 Total
2016	0.07226	0.45709
2017	0.22000	1.60615
2018	0.19165	1.51877
2019	0.01739	0.11801
2020	0.01275	0.10789

Maximum Emissions per phase (tons/year)

Demolition P1

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0015
	Off-Road		0.00556	0.00518
	Total		**0.00556**	**0.00672**
Offsite				
	Hauling		0.00041	0.00085
	Vendor		6.00E-05	0.00013
	Worker		1.00E-05	0.00031
	Total		**4.80E-04**	**0.00129**
TOTAL			***0.0060***	***0.0080***

Trenching P1

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.00036	0.00036
	Total		**0.00036**	**0.00036**
Offsite				
	Hauling		0	0
	Vendor		6.00E-05	0.00012
	Worker		0.00E+00	0.00011
	Total		**6.00E-05**	**0.00023**
TOTAL			***0.0004***	***0.0006***

Fine Grading P1

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0338
	Off-Road		0.0141	0.0133
	Total		**0.0141**	**0.0471**
Offsite				
	Hauling		0	0
	Vendor		1.30E-04	0.00027
	Worker		3.00E-05	0.00101
	Total		**1.60E-04**	**0.00128**
TOTAL			***0.0143***	***0.0484***

Paving P1

			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0014	0.0014
	Paving		0	0
	Total		**0.00144**	**0.00144**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		2.00E-05	0.00058
	Total		**2.00E-05**	**0.00058**
TOTAL			***0.0015***	***0.0020***

Architectural Coating P1			
		Exhaust PM10	PM2.5 Total
Onsite	**2016**		
	Architectural Coating	0.0000	0.0000
	Off-Road	0.00007	0.00007
	Total	**0.00007**	**0.00007**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	0.00E+00	0.00011
	Total	**0.00E+00**	**0.00011**
TOTAL		***0.0001***	***0.0002***

Demolition P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2016**		
	Fugitive Dust	0.0000	0.0008
	Off-Road	0.00582	0.00542
	Total	**0.00582**	**0.00621**
Offsite			
	Hauling	0.00021	0.00043
	Vendor	6.00E-05	0.00013
	Worker	1.00E-05	0.00033
	Total	**2.80E-04**	**0.00089**
TOTAL		***0.0061***	***0.0071***

Mass Grading P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2016**		
	Fugitive Dust	0.0000	0.0507
	Off-Road	0.0211	0.0199
	Total	**0.0211**	**0.0707**
Offsite			
	Hauling	0	0
	Vendor	1.90E-04	0.0004
	Worker	5.00E-05	0.00152
	Total	**2.40E-04**	**0.00192**
TOTAL		***0.0213***	***0.0726***

Trenching P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2016**		
	Off-Road	0.00037	0.00037
	Total	**0.00037**	**0.00037**
Offsite			
	Hauling	0	0
	Vendor	6.00E-05	0.00013
	Worker	0.00E+00	0.00012
	Total	**6.00E-05**	**0.00025**
TOTAL		***0.0004***	***0.0006***

Mass Grading Pile Driver Use P2				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Fugitive Dust		0.0000	0.0000
	Off-Road		0.00072	0.00072
	Total		**0.00072**	**0.00072**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		0.00E+00	0.00016
	Total		**0.00E+00**	**0.00016**
TOTAL			***0.0007***	***0.0009***

Building Construction P2				
			Exhaust PM10	PM2.5 Total
Onsite		**2016**		
	Off-Road		0.0146	0.0146
	Total		**0.0146**	**0.0146**
Offsite				
	Hauling		0	0
	Vendor		6.91E-03	0.0146
	Worker		1.22E-03	0.0385
	Total		**8.13E-03**	**0.0531**
TOTAL			***0.0227***	***0.0677***
Onsite		**2017**		
	Off-Road		0.0531	0.0531
	Total		**0.0531**	**0.0531**
Offsite				
	Hauling		0	0
	Vendor		2.40E-02	0.0551
	Worker		4.65E-03	0.1537
	Total		**2.86E-02**	**0.2088**
TOTAL			***0.0817***	***0.2619***
Onsite		**2018**		
	Off-Road		0.044	0.044
	Total		**0.044**	**0.044**
Offsite				
	Hauling		0	0
	Vendor		2.05E-02	0.0494
	Worker		4.14E-03	0.1418
	Total		**2.46E-02**	**0.1911**
TOTAL			***0.0686***	***0.2351***

Building Construction Crane Use P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2017**		
	Off-Road	0.00131	0.00131
	Total	**0.00131**	**0.00131**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	0.00E+00	0
	Total	**0.00E+00**	**0**
TOTAL		***0.0013***	***0.0013***

Architectural Coating P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2018**		
	Architectural Coating	0.0000	0.0000
	Off-Road	0.00032	0.00032
	Total	**0.00032**	**0.00032**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	1.60E-04	0.00532
	Total	**1.60E-04**	**0.00532**
TOTAL		***0.0005***	***0.0056***

Asphalt Paving P2			
		Exhaust PM10	PM2.5 Total
Onsite	**2018**		
	Off-Road	0.0007	0.0007
	Paving	0	0
	Total	**0.00071**	**0.00071**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	1.00E-05	0.00029
	Total	**1.00E-05**	**0.00029**
TOTAL		***0.0007***	***0.0010***

Trenching P3			
		Exhaust PM10	PM2.5 Total
Onsite	**2018**		
	Off-Road	0.00037	0.00037
	Total	**0.00037**	**0.00037**
Offsite			
	Hauling	0	0
	Vendor	5.00E-05	0.00012
	Worker	0.00E+00	0.00012
	Total	**5.00E-05**	**0.00024**
TOTAL		***0.0004***	***0.0006***

Building Construction P3				
			Exhaust PM10	PM2.5 Total
Onsite		**2018**		
	Off-Road		0.00385	0.00385
	Total		**0.00385**	**0.00385**
Offsite				
	Hauling		0	0
	Vendor		1.70E-04	0.00041
	Worker		2.00E-05	0.00084
	Total		**1.90E-04**	**0.00125**
TOTAL			***0.0040***	***0.0051***
Onsite		**2019**		
	Off-Road		0.0425	0.0425
	Total		**0.0425**	**0.0425**
Offsite				
	Hauling		0	0
	Vendor		1.97E-03	0.00497
	Worker		3.00E-04	0.0105
	Total		**2.27E-03**	**0.0154**
TOTAL			***0.0448***	***0.0579***
Onsite		**2020**		
	Off-Road		0.0221	0.0221
	Total		**0.0221**	**0.0221**
Offsite				
	Hauling		0	0
	Vendor		1.03E-03	0.0028
	Worker		1.70E-04	0.00614
	Total		**1.20E-03**	**0.00894**
TOTAL			***0.0233***	***0.0310***

Building Construction Crane Use P3				
			Exhaust PM10	PM2.5 Total
Onsite		**2018**		
	Off-Road		0.00021	0.00021
	Total		**0.00021**	**0.00021**
Offsite				
	Hauling		0	0
	Vendor		0.00E+00	0
	Worker		0.00E+00	0
	Total		**0.00E+00**	**0**
TOTAL			***0.0002***	***0.0002***
Onsite		**2019**		
	Off-Road		4.30E-04	4.30E-04
	Total		**4.30E-04**	**4.30E-04**
Offsite				
	Hauling		0	0
	Vendor		0	0
	Worker		0	0
	Total		**0**	**0**
TOTAL			***0.0004***	***0.0004***

Architectural Coating P3			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Architectural Coating	0.0000	0.0000
	Off-Road	0.00016	0.00016
	Total	**0.00016**	**0.00016**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	1.00E-05	0.00018
	Total	**1.00E-05**	**0.00018**
TOTAL		***0.0002***	***0.0003***

Demolition P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Fugitive Dust	0.0000	0.0001
	Off-Road	0.00464	0.00434
	Total	**0.00464**	**0.0044**
Offsite			
	Hauling	0.00001	0.00003
	Vendor	4.00E-05	0.00012
	Worker	1.00E-05	0.00034
	Total	**6.00E-05**	**0.00049**
TOTAL		***0.0047***	***0.0049***

Trenching P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Off-Road	0.00037	0.00037
	Total	**0.00037**	**0.00037**
Offsite			
	Hauling	0	0
	Vendor	4.00E-05	0.00011
	Worker	0.00E+00	0.00012
	Total	**4.00E-05**	**0.00023**
TOTAL		***0.0004***	***0.0006***

Fine Grading P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Fugitive Dust	0.0000	0.0169
	Off-Road	0.00566	0.00537
	Total	**0.00566**	**0.0223**
Offsite			
	Hauling	0	0
	Vendor	4.00E-05	0.00011
	Worker	1.00E-05	0.0005
	Total	**5.00E-05**	**0.00061**
TOTAL		***0.0057***	***0.0229***

Asphalt Paving P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Off-Road	0.0028	0.0028
	Paving	0	0
	Total	**0.00283**	**0.00283**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	3.00E-05	0.00116
	Total	**3.00E-05**	**0.00116**
TOTAL		***0.0029***	***0.0040***

Architectural Coating P4			
		Exhaust PM10	PM2.5 Total
Onsite	**2020**		
	Architectural Coating	0.0000	0.0000
	Off-Road	0.00009	0.00009
	Total	**0.00009**	**0.00009**
Offsite			
	Hauling	0	0
	Vendor	0.00E+00	0
	Worker	0.00E+00	0.00015
	Total	**0.00E+00**	**0.00015**
TOTAL		***0.0001***	***0.0002***

TOD#2 Construction
Unit Emission Rates (1 g/s)

```
*** ISCST3 - VERSION 02035 ***    *** Millbrae TOD2                                                    ***        03/18/15
                                   *** Construction HRA                                                 ***         16:04:43
**MODELOPTs:                                                                                                        PAGE   1
CONC                    URBAN ELEV  FLGPOL DFAULT

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses Regulatory DEFAULT Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Use Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           8. "Upper Bound" Values for Supersquat Buildings.
           9. No Exponential Decay for URBAN/Non-SO2

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:    35 Source(s);      3 Source Group(s); and     218 Receptor(s)

**The Model Assumes A Pollutant Type of:  OTHER

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours
```

```
**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.3 MB of RAM.

**Input Runstream File:          COMI-01.INP
**Output Print File:             COMI-01.OUT
**Detailed Error/Message File:   COMI-01.err
```

CONC URBAN ELEV FLGPOL DFAULT

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
L0000001	0	0.29412E-01	554352.3	4161669.2	22.2	4.15	13.02	1.93	SHRDOW
L0000002	0	0.29412E-01	554330.1	4161652.0	22.4	4.15	13.02	1.93	SHRDOW
L0000003	0	0.29412E-01	554307.9	4161635.0	23.0	4.15	13.02	1.93	SHRDOW
L0000004	0	0.29412E-01	554285.8	4161618.0	23.0	4.15	13.02	1.93	SHRDOW
L0000005	0	0.29412E-01	554263.6	4161600.8	23.3	4.15	13.02	1.93	SHRDOW
L0000006	0	0.29412E-01	554241.4	4161583.8	25.4	4.15	13.02	1.93	SHRDOW
L0000007	0	0.29412E-01	554219.1	4161566.8	26.4	4.15	13.02	1.93	SHRDOW
L0000008	0	0.29412E-01	554196.9	4161549.8	26.6	4.15	13.02	1.93	SHRDOW
L0000009	0	0.29412E-01	554174.8	4161532.5	26.5	4.15	13.02	1.93	SHRDOW
L0000010	0	0.29412E-01	554152.6	4161515.5	26.7	4.15	13.02	1.93	SHRDOW
L0000011	0	0.29412E-01	554130.4	4161498.5	28.6	4.15	13.02	1.93	SHRDOW
L0000012	0	0.29412E-01	554108.2	4161481.2	29.9	4.15	13.02	1.93	SHRDOW
L0000013	0	0.29412E-01	554086.0	4161464.2	30.1	4.15	13.02	1.93	SHRDOW
L0000014	0	0.29412E-01	554066.5	4161477.8	30.4	4.15	13.02	1.93	SHRDOW
L0000015	0	0.29412E-01	554047.6	4161498.2	30.6	4.15	13.02	1.93	SHRDOW
L0000016	0	0.29412E-01	554028.8	4161519.0	30.3	4.15	13.02	1.93	SHRDOW
L0000017	0	0.29412E-01	554009.5	4161539.2	30.8	4.15	13.02	1.93	SHRDOW
L0000018	0	0.29412E-01	553990.3	4161559.8	30.9	4.15	13.02	1.93	SHRDOW
L0000019	0	0.29412E-01	553971.1	4161580.0	31.1	4.15	13.02	1.93	SHRDOW
L0000020	0	0.29412E-01	553951.8	4161600.5	30.5	4.15	13.02	1.93	SHRDOW
L0000021	0	0.29412E-01	553932.6	4161620.8	31.0	4.15	13.02	1.93	SHRDOW
L0000022	0	0.29412E-01	553913.4	4161641.0	31.1	4.15	13.02	1.93	SHRDOW
L0000023	0	0.29412E-01	553894.2	4161661.5	31.4	4.15	13.02	1.93	SHRDOW
L0000024	0	0.29412E-01	553875.2	4161682.0	31.7	4.15	13.02	1.93	SHRDOW
L0000025	0	0.29412E-01	553856.1	4161702.5	32.0	4.15	13.02	1.93	SHRDOW
L0000026	0	0.29412E-01	553837.0	4161723.0	32.4	4.15	13.02	1.93	SHRDOW
L0000027	0	0.29412E-01	553817.9	4161743.5	32.5	4.15	13.02	1.93	SHRDOW
L0000028	0	0.29412E-01	553798.9	4161764.0	32.7	4.15	13.02	1.93	SHRDOW
L0000029	0	0.29412E-01	553779.8	4161784.5	31.3	4.15	13.02	1.93	SHRDOW
L0000030	0	0.29412E-01	553760.7	4161805.0	32.2	4.15	13.02	1.93	SHRDOW
L0000031	0	0.29412E-01	553741.6	4161825.5	32.8	4.15	13.02	1.93	SHRDOW
L0000032	0	0.29412E-01	553722.6	4161846.0	33.1	4.15	13.02	1.93	SHRDOW
L0000033	0	0.29412E-01	553703.4	4161866.5	33.3	4.15	13.02	1.93	SHRDOW
L0000034	0	0.29412E-01	553684.4	4161887.0	32.1	4.15	13.02	1.93	SHRDOW

CONC URBAN ELEV FLGPOL DFAULT

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	EMISSION RATE SCALAR VARY BY
1	0	0.15181E-04	554095.8	4161679.0	27.9	4.15	20	1.93	SHRDOW

**MODELOPTs:
CONC URBAN ELEV FLGPOL DFAULT

*** SOURCE IDs DEFINING SOURCE GROUPS ***

GROUP ID	SOURCE IDs
1	1 ,
2	L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034,
ALL	1 , L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007, L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, L0000031, L0000032, L0000033, L0000034,

CONC URBAN ELEV FLGPOL DFAULT

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW) *

SOURCE ID = 1 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
						SEASON = WINTER; DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SPRING; DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SUMMER; DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = FALL ; DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = WINTER; DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SPRING; DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SUMMER; DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = FALL ; DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = WINTER; DAY OF WEEK = SUNDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SPRING; DAY OF WEEK = SUNDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SUMMER; DAY OF WEEK = SUNDAY									

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 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
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CONC URBAN ELEV FLGPOL DFAULT

* SOURCE EMISSION RATE SCALARS WHICH VARY SEASONALLY, DIURNALLY AND BY DAY OF WEEK (SHRDOW) *

SOURCE ID = L0000001 through L0000034; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
						SEASON = WINTER; DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SPRING; DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SUMMER; DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = FALL ; DAY OF WEEK = WEEKDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.0000E+00	14	.1000E+01	15	.1000E+01	16	.1000E+01
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = WINTER; DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SPRING; DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SUMMER; DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = FALL ; DAY OF WEEK = SATURDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = WINTER; DAY OF WEEK = SUNDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SPRING; DAY OF WEEK = SUNDAY									
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
						SEASON = SUMMER; DAY OF WEEK = SUNDAY									

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 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                SEASON =  FALL ;  DAY OF WEEK = SUNDAY
 1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00    6  .0000E+00    7  .0000E+00    8  .0000E+00
 9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00   14  .0000E+00   15  .0000E+00   16  .0000E+00
17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00   22  .0000E+00   23  .0000E+00   24  .0000E+00
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CONC URBAN ELEV FLGPOL DEFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(554350.2,	4161978.2,	17.0,	1.5);	(554339.6,	4161988.8,	17.2,	1.5);
(554332.1,	4162003.8,	17.5,	1.5);	(554321.6,	4162018.2,	17.8,	1.5);
(554280.2,	4162003.0,	19.0,	1.5);	(554296.8,	4161986.5,	19.0,	1.5);
(554269.7,	4161983.5,	19.0,	1.5);	(554299.8,	4161948.2,	19.7,	1.5);
(554247.9,	4161915.8,	20.2,	1.5);	(554231.4,	4161902.2,	20.5,	1.5);
(554214.8,	4161894.8,	21.4,	1.5);	(554202.8,	4161885.8,	21.5,	1.5);
(554193.0,	4161874.5,	21.6,	1.5);	(554180.9,	4161864.0,	22.9,	1.5);
(554165.9,	4161860.2,	23.0,	1.5);	(554150.9,	4161857.2,	23.2,	1.5);
(554134.3,	4161856.5,	23.6,	1.5);	(554118.5,	4161856.5,	25.0,	1.5);
(554102.0,	4161853.5,	25.5,	1.5);	(554088.4,	4161853.5,	25.8,	1.5);
(554071.9,	4161852.0,	26.0,	1.5);	(554056.9,	4161854.2,	26.2,	1.5);
(554041.1,	4161855.0,	26.4,	1.5);	(554022.2,	4161855.0,	27.5,	1.5);
(553995.2,	4161861.0,	27.8,	1.5);	(553974.9,	4161872.2,	26.3,	1.5);
(553965.1,	4161882.8,	26.5,	1.5);	(553953.1,	4161891.8,	27.0,	1.5);
(553941.8,	4161906.8,	27.7,	1.5);	(553931.3,	4161915.8,	27.8,	1.5);
(553923.8,	4161928.5,	27.9,	1.5);	(553913.2,	4161942.2,	27.9,	1.5);
(554226.8,	4161951.2,	20.5,	1.5);	(554213.3,	4161943.8,	21.4,	1.5);
(554199.8,	4161934.8,	21.5,	1.5);	(554187.8,	4161925.5,	21.6,	1.5);
(554146.4,	4161897.8,	21.8,	1.5);	(554123.8,	4161895.5,	23.2,	1.5);
(554108.0,	4161893.3,	23.8,	1.5);	(554088.4,	4161895.5,	24.0,	1.5);
(554052.3,	4161896.2,	24.1,	1.5);	(554026.0,	4161892.5,	25.4,	1.5);
(554004.2,	4161897.0,	26.0,	1.5);	(553989.9,	4161906.0,	26.0,	1.5);
(553978.6,	4161921.0,	26.3,	1.5);	(553969.6,	4161929.5,	26.5,	1.5);
(553955.3,	4161943.8,	26.7,	1.5);	(553944.1,	4161956.5,	27.6,	1.5);
(553983.1,	4161982.8,	26.0,	1.5);	(553995.9,	4161965.5,	25.9,	1.5);
(554008.8,	4161952.0,	25.9,	1.5);	(554017.0,	4161938.5,	25.8,	1.5);
(554028.2,	4161925.5,	25.4,	1.5);	(554012.5,	4162006.8,	25.6,	1.5);
(554026.8,	4161993.2,	25.2,	1.5);	(554038.1,	4161979.0,	24.6,	1.5);
(554044.8,	4161968.5,	24.2,	1.5);	(554055.4,	4161957.3,	24.4,	1.5);
(554065.1,	4161949.0,	24.3,	1.5);	(554071.9,	4161934.8,	24.2,	1.5);
(554084.7,	4161924.8,	24.1,	1.5);	(554091.4,	4161916.5,	24.0,	1.5);
(554123.8,	4161927.8,	23.2,	1.5);	(554114.0,	4161939.2,	23.6,	1.5);
(554103.5,	4161951.2,	23.8,	1.5);	(554091.4,	4161965.5,	23.8,	1.5);
(554080.2,	4161979.0,	24.0,	1.5);	(554068.9,	4161994.0,	24.0,	1.5);
(554053.9,	4162014.3,	24.1,	1.5);	(554041.8,	4162031.0,	24.3,	1.5);
(554071.1,	4162055.8,	22.1,	1.5);	(554086.2,	4162043.0,	23.7,	1.5);
(554096.8,	4162031.0,	23.5,	1.5);	(554104.2,	4162019.0,	23.3,	1.5);
(554115.5,	4162006.0,	22.9,	1.5);	(554124.6,	4161994.8,	22.4,	1.5);
(554137.3,	4161972.2,	21.2,	1.5);	(554147.1,	4161960.2,	21.0,	1.5);
(554156.1,	4161946.0,	21.9,	1.5);	(554167.4,	4161937.0,	21.7,	1.5);
(554168.2,	4161986.5,	20.5,	1.5);	(554176.4,	4161997.0,	20.5,	1.5);

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( 554167.4, 4162017.2,      20.8,       1.5);          ( 554153.1, 4162025.8,      21.0,       1.5);
( 554134.3, 4162020.5,      21.4,       1.5);          ( 554096.8, 4162066.2,      22.0,       1.5);
( 554112.5, 4162076.8,      21.6,       1.5);          ( 554120.8, 4162088.8,      21.2,       1.5);
( 554102.8, 4162113.8,      21.8,       1.5);          ( 554087.7, 4162105.2,      22.0,       1.5);
( 554073.4, 4162091.0,      22.1,       1.5);          ( 554051.6, 4162080.5,      22.1,       1.5);
( 554027.5, 4162055.0,      23.5,       1.5);          ( 553995.2, 4162031.0,      25.8,       1.5);
( 553965.9, 4162006.8,      26.1,       1.5);          ( 553930.5, 4161982.8,      27.0,       1.5);
( 553945.6, 4161760.3,      30.0,       1.5);          ( 553934.2, 4161776.8,      30.1,       1.5);
( 553916.9, 4161788.8,      29.0,       1.5);          ( 553905.7, 4161803.8,      29.0,       1.5);
( 553896.6, 4161818.8,      29.2,       1.5);          ( 553888.4, 4161828.5,      29.3,       1.5);
( 553875.6, 4161839.0,      29.5,       1.5);          ( 553863.6, 4161852.0,      29.7,       1.5);
( 553853.0, 4161861.0,      30.7,       1.5);          ( 553841.8, 4161875.2,      29.9,       1.5);
( 553827.4, 4161891.0,      30.0,       1.5);          ( 553819.2, 4161907.5,      30.0,       1.5);
( 553806.4, 4161922.5,      30.1,       1.5);          ( 553795.1, 4161933.2,      30.2,       1.5);
( 553753.8, 4161911.2,      31.4,       1.5);          ( 553768.8, 4161900.0,      30.8,       1.5);
( 553778.6, 4161891.8,      30.2,       1.5);          ( 553788.4, 4161879.0,      30.1,       1.5);
( 553799.6, 4161868.5,      31.2,       1.5);          ( 553812.4, 4161858.8,      31.1,       1.5);
( 553820.7, 4161848.2,      31.0,       1.5);          ( 553836.5, 4161839.8,      30.9,       1.5);
( 553846.3, 4161827.8,      30.8,       1.5);          ( 553854.5, 4161815.8,      30.6,       1.5);
( 553868.1, 4161806.8,      29.7,       1.5);          ( 553878.6, 4161793.2,      29.4,       1.5);
( 553888.4, 4161783.5,      29.3,       1.5);          ( 553900.4, 4161774.5,      30.4,       1.5);
( 553909.4, 4161755.0,      30.2,       1.5);          ( 553914.7, 4161736.8,      30.1,       1.5);
( 553975.6, 4161407.5,      33.9,       1.5);          ( 553965.9, 4161427.8,      32.5,       1.5);
( 553947.1, 4161443.5,      33.6,       1.5);          ( 553925.3, 4161478.8,      33.8,       1.5);
( 553912.4, 4161569.0,      32.3,       1.5);          ( 553835.0, 4161657.8,      33.2,       1.5);
( 553818.4, 4161680.5,      33.4,       1.5);          ( 553809.4, 4161688.0,      33.4,       1.5);
( 553802.6, 4161697.0,      32.5,       1.5);          ( 553797.4, 4161703.0,      32.5,       1.5);
( 553760.5, 4161739.0,      33.9,       1.5);          ( 553732.7, 4161773.8,      34.5,       1.5);
( 553722.2, 4161785.0,      33.1,       1.5);          ( 553716.1, 4161794.8,      33.1,       1.5);
( 553702.6, 4161808.2,      33.1,       1.5);          ( 553682.3, 4161822.5,      33.4,       1.5);
( 553655.3, 4161855.8,      34.6,       1.5);          ( 553930.4, 4161383.5,      35.0,       1.5);
( 553919.4, 4161406.2,      35.1,       1.5);          ( 553906.7, 4161425.5,      34.0,       1.5);
( 553889.4, 4161452.8,      34.1,       1.5);          ( 553866.6, 4161493.0,      34.4,       1.5);
( 553851.9, 4161512.3,      34.2,       1.5);          ( 553841.0, 4161520.2,      34.4,       1.5);
( 553832.8, 4161532.2,      34.4,       1.5);          ( 553810.0, 4161551.2,      34.6,       1.5);
( 553796.3, 4161577.0,      34.7,       1.5);          ( 553762.6, 4161605.2,      34.5,       1.5);
( 553909.6, 4161953.2,      28.0,       1.5);          ( 553900.1, 4161966.5,      27.1,       1.5);
( 553888.4, 4161978.2,      27.2,       1.5);          ( 553878.8, 4161989.5,      27.4,       1.5);
( 553860.3, 4162004.2,      27.9,       1.5);          ( 553923.6, 4161993.5,      27.0,       1.5);
( 553913.0, 4162002.5,      27.0,       1.5);          ( 553900.1, 4162014.3,      27.2,       1.5);
( 553893.4, 4162026.5,      27.3,       1.5);          ( 553957.2, 4162019.2,      26.2,       1.5);
( 553946.1, 4162028.2,      26.9,       1.5);          ( 553936.5, 4162040.0,      27.0,       1.5);
( 553925.3, 4162054.5,      26.0,       1.5);          ( 553982.5, 4162040.5,      25.9,       1.5);
( 553975.2, 4162050.0,      24.4,       1.5);          ( 553963.4, 4162060.8,      24.5,       1.5);
( 553952.8, 4162073.0,      24.9,       1.5);          ( 553941.0, 4162085.2,      25.7,       1.5);
( 554017.2, 4162065.3,      23.8,       1.5);          ( 554004.9, 4162078.8,      24.0,       1.5);
( 553995.9, 4162089.8,      24.0,       1.5);          ( 553985.3, 4162102.2,      24.1,       1.5);
( 553975.8, 4162113.5,      24.3,       1.5);          ( 553788.2, 4162099.8,      28.1,       1.5);
( 553796.2, 4162089.5,      27.9,       1.5);          ( 553807.4, 4162077.5,      27.5,       1.5);
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CONC URBAN ELEV FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(553817.0,	4162062.2,	27.3,	1.5);	(553829.0,	4162051.8,	27.2,	1.5);
(553840.2,	4162039.8,	28.8,	1.5);	(553884.1,	4162039.8,	27.4,	1.5);
(553872.9,	4162051.0,	26.5,	1.5);	(553859.4,	4162063.8,	27.0,	1.5);
(553852.2,	4162075.8,	27.0,	1.5);	(553841.0,	4162087.0,	27.0,	1.5);
(553829.0,	4162100.5,	27.2,	1.5);	(553884.1,	4162102.2,	26.3,	1.5);
(553896.9,	4162091.0,	26.1,	1.5);	(553909.8,	4162078.2,	26.0,	1.5);
(553933.7,	4162096.5,	25.8,	1.5);	(553924.1,	4162110.2,	25.8,	1.5);
(553912.9,	4162124.5,	25.9,	1.5);	(553905.8,	4162137.2,	26.0,	1.5);
(553940.9,	4162159.0,	24.0,	1.5);	(553951.3,	4162151.0,	23.5,	1.5);
(553960.9,	4162138.2,	24.6,	1.5);	(553965.7,	4162126.2,	24.5,	1.5);
(553980.9,	4162166.3,	23.0,	1.5);	(553990.5,	4162155.8,	23.0,	1.5);
(553996.9,	4162140.5,	23.0,	1.5);	(554013.7,	4162122.3,	23.8,	1.5);
(554024.1,	4162111.8,	23.5,	1.5);	(554032.9,	4162098.2,	23.1,	1.5);
(554060.1,	4162143.8,	21.1,	1.5);	(553771.5,	4161976.0,	29.3,	1.5);
(553762.0,	4161983.5,	30.0,	1.5);	(553753.8,	4161997.0,	30.4,	1.5);
(553745.7,	4162007.3,	30.6,	1.5);	(553734.1,	4162019.5,	30.8,	1.5);
(553728.0,	4162026.3,	30.9,	1.5);	(553706.9,	4161982.8,	31.0,	1.5);
(553713.1,	4161974.8,	31.0,	1.5);	(553723.2,	4161966.5,	31.0,	1.5);
(553732.8,	4161955.0,	31.9,	1.5);	(553743.6,	4161940.0,	31.7,	1.5);

CONC URBAN ELEV FLGPOL DFAULT

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

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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 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 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 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 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   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
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** WIND PROFILE EXPONENTS ***

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
B	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00	.15000E+00
C	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00	.20000E+00
D	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00	.25000E+00
E	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00
F	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00	.30000E+00

*** VERTICAL POTENTIAL TEMPERATURE GRADIENTS ***
(DEGREES KELVIN PER METER)

STABILITY CATEGORY	WIND SPEED CATEGORY 1	2	3	4	5	6
A	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
B	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
C	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
D	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00	.00000E+00
E	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01	.20000E-01
F	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01	.35000E-01

CONC URBAN ELEV FLGPOL DFAULT

*** THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

FILE: D-METD~1\Combined.asc
FORMAT: (4I2,2F9.4,F6.1,I2,2F7.1,f9.4,f10.1,f8.4,i4,f7.2)
SURFACE STATION NO.: 6801 UPPER AIR STATION NO.: 6801
NAME: UNKNOWN NAME: UNKNOWN
YEAR: 2003 YEAR: 2003

YR	MN	DY	HR	FLOW VECTOR	SPEED (M/S)	TEMP (K)	STAB CLASS	MIXING HEIGHT (M) RURAL	MIXING HEIGHT (M) URBAN	USTAR (M/S)	M-O LENGTH (M)	Z-0 (M)	IPCODE	PRATE (mm/HR)
03	01	01	01	38.4	1.16	280.7	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	02	8.6	1.00	280.6	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	03	356.1	1.00	280.3	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	04	20.5	1.34	279.6	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	05	69.9	1.00	279.5	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	06	20.9	1.00	279.1	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	07	17.1	1.25	278.8	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	08	352.7	1.00	279.1	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	09	20.1	1.00	279.7	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	10	303.4	1.00	282.4	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	11	250.0	1.34	284.0	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	12	203.8	2.01	283.5	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	13	181.6	1.25	284.0	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	14	171.6	1.74	284.7	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	15	175.3	1.88	285.1	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	16	172.3	1.61	285.4	3	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	17	205.5	1.03	285.2	4	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	18	230.4	1.00	285.0	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	19	147.7	1.00	284.7	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	20	159.7	1.03	284.1	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	21	283.2	1.34	284.2	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	22	339.5	1.00	283.6	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	23	343.2	1.79	283.2	5	300.0	300.0	0.0000	0.0	0.0000	0	0.00
03	01	01	24	20.4	1.52	283.1	6	300.0	300.0	0.0000	0.0	0.0000	0	0.00

*** NOTES: STABILITY CLASS 1=A, 2=B, 3=C, 4=D, 5=E AND 6=F.
FLOW VECTOR IS DIRECTION TOWARD WHICH WIND IS BLOWING.

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): 1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554350.19	4161978.25	3.02110	554339.62	4161988.75	2.58076
554332.12	4162003.75	2.10593	554321.62	4162018.25	1.77794
554280.25	4162003.00	2.03890	554296.75	4161986.50	2.57070
554269.69	4161983.50	2.41784	554299.81	4161948.25	4.37475
554247.88	4161915.75	4.21723	554231.38	4161902.25	4.19853
554214.81	4161894.75	3.86229	554202.75	4161885.75	3.71215
554193.00	4161874.50	3.74404	554180.94	4161864.00	3.82982
554165.94	4161860.25	3.81825	554150.88	4161857.25	3.94119
554134.31	4161856.50	4.02428	554118.50	4161856.50	4.04925
554102.00	4161853.50	4.24965	554088.44	4161853.50	4.19972
554071.88	4161852.00	4.20124	554056.88	4161854.25	3.87269
554041.06	4161855.00	3.59270	554022.25	4161855.00	3.20282
553995.19	4161861.00	2.21982	553974.88	4161872.25	1.51620
553965.06	4161882.75	1.25092	553953.06	4161891.75	1.03871
553941.75	4161906.75	0.87324	553931.25	4161915.75	0.77019
553923.75	4161928.50	0.70083	553913.19	4161942.25	0.62686
554226.81	4161951.25	2.62226	554213.31	4161943.75	2.58179
554199.75	4161934.75	2.55215	554187.75	4161925.50	2.53139
554146.38	4161897.75	2.54829	554123.81	4161895.50	2.46373
554108.00	4161893.25	2.44456	554088.44	4161895.50	2.28434
554052.31	4161896.25	2.02535	554026.00	4161892.50	1.87473
554004.19	4161897.00	1.56340	553989.94	4161906.00	1.31232
553978.62	4161921.00	1.09777	553969.62	4161929.50	0.98787
553955.31	4161943.75	0.84361	553944.06	4161956.50	0.74901
553983.13	4161982.75	0.80422	553995.94	4161965.50	0.91634
554008.75	4161952.00	1.03936	554017.00	4161938.50	1.17558
554028.25	4161925.50	1.36455	554012.50	4162006.75	0.80378
554026.75	4161993.25	0.89392	554038.06	4161979.00	0.99746
554044.81	4161968.50	1.08225	554055.38	4161957.25	1.20362
554065.12	4161949.00	1.31670	554071.88	4161934.75	1.49558
554084.69	4161924.75	1.69400	554091.44	4161916.50	1.85919
554123.81	4161927.75	1.88562	554114.00	4161939.25	1.68151
554103.50	4161951.25	1.49586	554091.44	4161965.50	1.31144
554080.19	4161979.00	1.16631	554068.88	4161994.00	1.03640
554053.88	4162014.25	0.89543	554041.81	4162031.00	0.80248
554071.12	4162055.75	0.79783	554086.19	4162043.00	0.88432
554096.75	4162031.00	0.96707	554104.25	4162019.00	1.04976

554115.50	4162006.00	1.16573	554124.56	4161994.75	1.27783
554137.31	4161972.25	1.51606	554147.12	4161960.25	1.68969
554156.12	4161946.00	1.90903	554167.44	4161937.00	2.12126
554168.19	4161986.50	1.60030	554176.44	4161997.00	1.55877
554167.44	4162017.25	1.34593	554153.12	4162025.75	1.22272
554134.31	4162020.50	1.16983	554096.75	4162066.25	0.83077
554112.50	4162076.75	0.83533	554120.75	4162088.75	0.81080
554102.75	4162113.75	0.69166	554087.69	4162105.25	0.68834
554073.38	4162091.00	0.69912	554051.56	4162080.50	0.68374
554027.50	4162055.00	0.70196	553995.19	4162031.00	0.69485
553965.88	4162006.75	0.68642	553930.50	4161982.75	0.63672
553945.56	4161760.25	0.70192	553934.25	4161776.75	0.61997
553916.94	4161788.75	0.51435	553905.69	4161803.75	0.46725
553896.62	4161818.75	0.43748	553888.38	4161828.50	0.41170
553875.56	4161839.00	0.37537	553863.56	4161852.00	0.34978
553853.00	4161861.00	0.32848	553841.75	4161875.25	0.31232
553827.44	4161891.00	0.29288	553819.19	4161907.50	0.28854
553806.38	4161922.50	0.27435	553795.12	4161933.25	0.26129
553753.75	4161911.25	0.19258	553768.81	4161900.00	0.20467
553778.56	4161891.75	0.21281	553788.38	4161879.00	0.21963
553799.62	4161868.50	0.23035	553812.44	4161858.75	0.24511
553820.69	4161848.25	0.25361	553836.50	4161839.75	0.27801
553846.25	4161827.75	0.29204	553854.50	4161815.75	0.30521
553868.06	4161806.75	0.33507	553878.63	4161793.25	0.35899
553888.38	4161783.50	0.38538	553900.44	4161774.50	0.42506
553909.44	4161755.00	0.45033	553914.69	4161736.75	0.46129
553975.62	4161407.50	0.39177	553965.88	4161427.75	0.38938
553947.06	4161443.50	0.36334	553925.25	4161478.75	0.34123
553912.44	4161569.00	0.35879	553835.00	4161657.75	0.23311
553818.44	4161680.50	0.21388	553809.44	4161688.00	0.20409
553802.63	4161697.00	0.19759	553797.38	4161703.00	0.19278
553760.50	4161739.00	0.16389	553732.69	4161773.75	0.14661
553722.19	4161785.00	0.14043	553716.13	4161794.75	0.13724
553702.62	4161808.25	0.13029	553682.31	4161822.50	0.12079
553655.25	4161855.75	0.11169	553930.44	4161383.50	0.29717
553919.44	4161406.25	0.29231	553906.69	4161425.50	0.28196
553889.38	4161452.75	0.26635	553866.56	4161493.00	0.24431
553851.94	4161512.25	0.22876	553841.00	4161520.25	0.21674
553832.81	4161532.25	0.20939	553810.00	4161551.25	0.18894
553796.31	4161577.00	0.18024	553762.56	4161605.25	0.15649
553909.62	4161953.25	0.59835	553900.12	4161966.50	0.54785
553888.38	4161978.25	0.49930	553878.81	4161989.50	0.46444
553860.31	4162004.25	0.41198	553923.62	4161993.50	0.59597

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): 1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
553913.00	4162002.50	0.55149	553900.12	4162014.25	0.50329
553893.38	4162026.50	0.47570	553957.25	4162019.25	0.63769
553946.06	4162028.25	0.59545	553936.50	4162040.00	0.55632
553925.31	4162054.50	0.51483	553982.50	4162040.50	0.64743
553975.19	4162050.00	0.61449	553963.44	4162060.75	0.57442
553952.75	4162073.00	0.53766	553941.00	4162085.25	0.50289
554017.19	4162065.25	0.65810	554004.88	4162078.75	0.60911
553995.94	4162089.75	0.57503	553985.25	4162102.25	0.53917
553975.75	4162113.50	0.50995	553788.19	4162099.75	0.27506
553796.19	4162089.50	0.28576	553807.38	4162077.50	0.30153
553817.00	4162062.25	0.31771	553829.00	4162051.75	0.33776
553840.19	4162039.75	0.35941	553884.12	4162039.75	0.44490
553872.94	4162051.00	0.41499	553859.38	4162063.75	0.38347
553852.19	4162075.75	0.36632	553841.00	4162087.00	0.34482
553829.00	4162100.50	0.32368	553884.12	4162102.25	0.40286
553896.94	4162091.00	0.43032	553909.75	4162078.25	0.46182
553933.69	4162096.50	0.47875	553924.12	4162110.25	0.45093
553912.94	4162124.50	0.42322	553905.75	4162137.25	0.40373
553940.94	4162159.00	0.41666	553951.31	4162151.00	0.43490
553960.88	4162138.25	0.45963	553965.69	4162126.25	0.48045
553980.88	4162166.25	0.44063	553990.50	4162155.75	0.46304
553996.88	4162140.50	0.49143	554013.69	4162122.25	0.53935
554024.06	4162111.75	0.57144	554032.88	4162098.25	0.61103
554060.06	4162143.75	0.55453	553771.50	4161976.00	0.24729
553762.00	4161983.50	0.23718	553753.81	4161997.00	0.23184
553745.69	4162007.25	0.22546	553734.12	4162019.50	0.21610
553728.00	4162026.25	0.21149	553706.94	4161982.75	0.17527
553713.06	4161974.75	0.17788	553723.25	4161966.50	0.18439
553732.75	4161955.00	0.18924	553743.62	4161940.00	0.19427

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007,
L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019,
L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554350.19	4161978.25	0.35499	554339.62	4161988.75	0.34752
554332.12	4162003.75	0.33551	554321.62	4162018.25	0.32584
554280.25	4162003.00	0.35831	554296.75	4161986.50	0.37006
554269.69	4161983.50	0.38533	554299.81	4161948.25	0.42078
554247.88	4161915.75	0.51024	554231.38	4161902.25	0.55328
554214.81	4161894.75	0.58797	554202.75	4161885.75	0.61970
554193.00	4161874.50	0.65631	554180.94	4161864.00	0.70239
554165.94	4161860.25	0.72402	554150.88	4161857.25	0.74437
554134.31	4161856.50	0.76104	554118.50	4161856.50	0.78380
554102.00	4161853.50	0.81127	554088.44	4161853.50	0.82768
554071.88	4161852.00	0.85437	554056.88	4161854.25	0.86940
554041.06	4161855.00	0.89362	554022.25	4161855.00	0.93754
553995.19	4161861.00	0.97828	553974.88	4161872.25	0.96559
553965.06	4161882.75	0.95005	553953.06	4161891.75	0.95024
553941.75	4161906.75	0.92520	553931.25	4161915.75	0.91619
553923.75	4161928.50	0.88291	553913.19	4161942.25	0.85356
554226.81	4161951.25	0.46122	554213.31	4161943.75	0.48722
554199.75	4161934.75	0.51403	554187.75	4161925.50	0.54100
554146.38	4161897.75	0.63168	554123.81	4161895.50	0.66277
554108.00	4161893.25	0.68524	554088.44	4161895.50	0.69938
554052.31	4161896.25	0.73601	554026.00	4161892.50	0.79074
554004.19	4161897.00	0.81555	553989.94	4161906.00	0.81183
553978.62	4161921.00	0.78600	553969.62	4161929.50	0.77636
553955.31	4161943.75	0.75830	553944.06	4161956.50	0.74425
553983.13	4161982.75	0.61683	553995.94	4161965.50	0.64205
554008.75	4161952.00	0.65926	554017.00	4161938.50	0.68128
554028.25	4161925.50	0.69826	554012.50	4162006.75	0.54055
554026.75	4161993.25	0.55212	554038.06	4161979.00	0.56700
554044.81	4161968.50	0.57938	554055.38	4161957.25	0.59363
554065.12	4161949.00	0.60124	554071.88	4161934.75	0.62461
554084.69	4161924.75	0.63419	554091.44	4161916.50	0.64622
554123.81	4161927.75	0.59130	554114.00	4161939.25	0.57722
554103.50	4161951.25	0.56317	554091.44	4161965.50	0.54599
554080.19	4161979.00	0.53128	554068.88	4161994.00	0.51421
554053.88	4162014.25	0.49245	554041.81	4162031.00	0.47517

554071.12	4162055.75	0.41731	554086.19	4162043.00	0.43026
554096.75	4162031.00	0.43957	554104.25	4162019.00	0.45096
554115.50	4162006.00	0.46096	554124.56	4161994.75	0.46989
554137.31	4161972.25	0.49127	554147.12	4161960.25	0.50346
554156.12	4161946.00	0.52612	554167.44	4161937.00	0.53400
554168.19	4161986.50	0.44663	554176.44	4161997.00	0.42671
554167.44	4162017.25	0.40658	554153.12	4162025.75	0.40544
554134.31	4162020.50	0.42461	554096.75	4162066.25	0.39124
554112.50	4162076.75	0.37052	554120.75	4162088.75	0.35306
554102.75	4162113.75	0.33754	554087.69	4162105.25	0.35290
554073.38	4162091.00	0.37440	554051.56	4162080.50	0.39618
554027.50	4162055.00	0.44538	553995.19	4162031.00	0.51075
553965.88	4162006.75	0.58181	553930.50	4161982.75	0.68334
553945.56	4161760.25	2.03888	553934.25	4161776.75	1.96367
553916.94	4161788.75	1.96575	553905.69	4161803.75	1.90340
553896.62	4161818.75	1.82225	553888.38	4161828.50	1.79722
553875.56	4161839.00	1.81373	553863.56	4161852.00	1.78622
553853.00	4161861.00	1.82003	553841.75	4161875.25	1.71985
553827.44	4161891.00	1.65738	553819.19	4161907.50	1.52408
553806.38	4161922.50	1.44376	553795.12	4161933.25	1.39551
553753.75	4161911.25	2.25250	553768.81	4161900.00	2.26215
553778.56	4161891.75	2.25290	553788.38	4161879.00	2.38628
553799.62	4161868.50	2.53795	553812.44	4161858.75	2.51144
553820.69	4161848.25	2.59171	553836.50	4161839.75	2.45011
553846.25	4161827.75	2.50900	553854.50	4161815.75	2.59361
553868.06	4161806.75	2.43917	553878.63	4161793.25	2.48910
553888.38	4161783.50	2.48752	553900.44	4161774.50	2.52643
553909.44	4161755.00	2.74839	553914.69	4161736.75	3.06647
553975.62	4161407.50	1.84879	553965.88	4161427.75	1.97824
553947.06	4161443.50	1.93140	553925.25	4161478.75	2.11001
553912.44	4161569.00	4.42896	553835.00	4161657.75	4.75255
553818.44	4161680.50	5.03855	553809.44	4161688.00	4.88118
553802.63	4161697.00	4.86537	553797.38	4161703.00	4.85344
553760.50	4161739.00	4.67095	553732.69	4161773.75	4.83710
553722.19	4161785.00	4.54792	553716.13	4161794.75	4.63640
553702.62	4161808.25	4.30444	553682.31	4161822.50	3.47523
553655.25	4161855.75	2.41834	553930.44	4161383.50	1.22586
553919.44	4161406.25	1.29870	553906.69	4161425.50	1.33708
553889.38	4161452.75	1.39970	553866.56	4161493.00	1.52550
553851.94	4161512.25	1.55189	553841.00	4161520.25	1.51232
553832.81	4161532.25	1.53691	553810.00	4161551.25	1.46999
553796.31	4161577.00	1.55865	553762.56	4161605.25	1.43663
553909.62	4161953.25	0.81957	553900.12	4161966.50	0.78116
553888.38	4161978.25	0.76053	553878.81	4161989.50	0.73751
553860.31	4162004.25	0.71487	553923.62	4161993.50	0.66247

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007,
L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019,
L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
553913.00	4162002.50	0.65060	553900.12	4162014.25	0.63306
553893.38	4162026.50	0.60711	553957.25	4162019.25	0.56350
553946.06	4162028.25	0.55678	553936.50	4162040.00	0.53994
553925.31	4162054.50	0.51319	553982.50	4162040.50	0.50313
553975.19	4162050.00	0.48538	553963.44	4162060.75	0.47454
553952.75	4162073.00	0.46111	553941.00	4162085.25	0.44875
554017.19	4162065.25	0.43735	554004.88	4162078.75	0.42519
553995.94	4162089.75	0.41413	553985.25	4162102.25	0.40185
553975.75	4162113.50	0.39076	553788.19	4162099.75	0.45980
553796.19	4162089.50	0.48354	553807.38	4162077.50	0.51184
553817.00	4162062.25	0.55118	553829.00	4162051.75	0.57767
553840.19	4162039.75	0.61876	553884.12	4162039.75	0.58047
553872.94	4162051.00	0.55400	553859.38	4162063.75	0.53142
553852.19	4162075.75	0.50508	553841.00	4162087.00	0.48212
553829.00	4162100.50	0.45508	553884.12	4162102.25	0.43973
553896.94	4162091.00	0.45611	553909.75	4162078.25	0.47491
553933.69	4162096.50	0.43357	553924.12	4162110.25	0.41505
553912.94	4162124.50	0.39637	553905.75	4162137.25	0.37934
553940.94	4162159.00	0.34174	553951.31	4162151.00	0.34794
553960.88	4162138.25	0.36414	553965.69	4162126.25	0.37777
553980.88	4162166.25	0.32499	553990.50	4162155.75	0.33401
553996.88	4162140.50	0.34892	554013.69	4162122.25	0.36658
554024.06	4162111.75	0.37449	554032.88	4162098.25	0.38597
554060.06	4162143.75	0.32299	553771.50	4161976.00	1.03913
553762.00	4161983.50	1.00520	553753.81	4161997.00	0.90929
553745.69	4162007.25	0.84124	553734.12	4162019.50	0.76319
553728.00	4162026.25	0.72249	553706.94	4161982.75	1.04798
553713.06	4161974.75	1.14969	553723.25	4161966.50	1.26516
553732.75	4161955.00	1.46574	553743.62	4161940.00	1.69451

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , L0000001, L0000002, L0000003, L0000004, L0000005, L0000006,
L0000007, L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018,
L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554350.19	4161978.25	3.37607	554339.62	4161988.75	2.92825
554332.12	4162003.75	2.44142	554321.62	4162018.25	2.10377
554280.25	4162003.00	2.39719	554296.75	4161986.50	2.94073
554269.69	4161983.50	2.80315	554299.81	4161948.25	4.79548
554247.88	4161915.75	4.72744	554231.38	4161902.25	4.75178
554214.81	4161894.75	4.45022	554202.75	4161885.75	4.33181
554193.00	4161874.50	4.40031	554180.94	4161864.00	4.53217
554165.94	4161860.25	4.54224	554150.88	4161857.25	4.68553
554134.31	4161856.50	4.78529	554118.50	4161856.50	4.83303
554102.00	4161853.50	5.06088	554088.44	4161853.50	5.02738
554071.88	4161852.00	5.05558	554056.88	4161854.25	4.74205
554041.06	4161855.00	4.48629	554022.25	4161855.00	4.14033
553995.19	4161861.00	3.19808	553974.88	4161872.25	2.48179
553965.06	4161882.75	2.20096	553953.06	4161891.75	1.98895
553941.75	4161906.75	1.79843	553931.25	4161915.75	1.68637
553923.75	4161928.50	1.58375	553913.19	4161942.25	1.48042
554226.81	4161951.25	3.08345	554213.31	4161943.75	3.06899
554199.75	4161934.75	3.06617	554187.75	4161925.50	3.07236
554146.38	4161897.75	3.17994	554123.81	4161895.50	3.12649
554108.00	4161893.25	3.12978	554088.44	4161895.50	2.98371
554052.31	4161896.25	2.76135	554026.00	4161892.50	2.66545
554004.19	4161897.00	2.37895	553989.94	4161906.00	2.12414
553978.62	4161921.00	1.88377	553969.62	4161929.50	1.76423
553955.31	4161943.75	1.60190	553944.06	4161956.50	1.49325
553983.13	4161982.75	1.42105	553995.94	4161965.50	1.55838
554008.75	4161952.00	1.69862	554017.00	4161938.50	1.85685
554028.25	4161925.50	2.06281	554012.50	4162006.75	1.34433
554026.75	4161993.25	1.44603	554038.06	4161979.00	1.56445
554044.81	4161968.50	1.66162	554055.38	4161957.25	1.79725
554065.12	4161949.00	1.91792	554071.88	4161934.75	2.12018
554084.69	4161924.75	2.32817	554091.44	4161916.50	2.50540
554123.81	4161927.75	2.47691	554114.00	4161939.25	2.25873
554103.50	4161951.25	2.05902	554091.44	4161965.50	1.85742
554080.19	4161979.00	1.69758	554068.88	4161994.00	1.55059
554053.88	4162014.25	1.38788	554041.81	4162031.00	1.27764

554071.12	4162055.75	1.21514	554086.19	4162043.00	1.31457
554096.75	4162031.00	1.40663	554104.25	4162019.00	1.50071
554115.50	4162006.00	1.62669	554124.56	4161994.75	1.74771
554137.31	4161972.25	2.00733	554147.12	4161960.25	2.19314
554156.12	4161946.00	2.43513	554167.44	4161937.00	2.65524
554168.19	4161986.50	2.04691	554176.44	4161997.00	1.98547
554167.44	4162017.25	1.75250	554153.12	4162025.75	1.62816
554134.31	4162020.50	1.59443	554096.75	4162066.25	1.22200
554112.50	4162076.75	1.20584	554120.75	4162088.75	1.16385
554102.75	4162113.75	1.02919	554087.69	4162105.25	1.04123
554073.38	4162091.00	1.07351	554051.56	4162080.50	1.07991
554027.50	4162055.00	1.14734	553995.19	4162031.00	1.20560
553965.88	4162006.75	1.26822	553930.50	4161982.75	1.32006
553945.56	4161760.25	2.74080	553934.25	4161776.75	2.58364
553916.94	4161788.75	2.48010	553905.69	4161803.75	2.37064
553896.62	4161818.75	2.25973	553888.38	4161828.50	2.20891
553875.56	4161839.00	2.18910	553863.56	4161852.00	2.13600
553853.00	4161861.00	2.14851	553841.75	4161875.25	2.03216
553827.44	4161891.00	1.95026	553819.19	4161907.50	1.81262
553806.38	4161922.50	1.71811	553795.12	4161933.25	1.65680
553753.75	4161911.25	2.44508	553768.81	4161900.00	2.46681
553778.56	4161891.75	2.46571	553788.38	4161879.00	2.60590
553799.62	4161868.50	2.76831	553812.44	4161858.75	2.75655
553820.69	4161848.25	2.84532	553836.50	4161839.75	2.72812
553846.25	4161827.75	2.80104	553854.50	4161815.75	2.89882
553868.06	4161806.75	2.77423	553878.63	4161793.25	2.84809
553888.38	4161783.50	2.87291	553900.44	4161774.50	2.95149
553909.44	4161755.00	3.19872	553914.69	4161736.75	3.52776
553975.62	4161407.50	2.24055	553965.88	4161427.75	2.36762
553947.06	4161443.50	2.29473	553925.25	4161478.75	2.45124
553912.44	4161569.00	4.78775	553835.00	4161657.75	4.98566
553818.44	4161680.50	5.25242	553809.44	4161688.00	5.08527
553802.63	4161697.00	5.06296	553797.38	4161703.00	5.04621
553760.50	4161739.00	4.83484	553732.69	4161773.75	4.98371
553722.19	4161785.00	4.68835	553716.13	4161794.75	4.77364
553702.62	4161808.25	4.43472	553682.31	4161822.50	3.59602
553655.25	4161855.75	2.53002	553930.44	4161383.50	1.52303
553919.44	4161406.25	1.59101	553906.69	4161425.50	1.61904
553889.38	4161452.75	1.66604	553866.56	4161493.00	1.76981
553851.94	4161512.25	1.78065	553841.00	4161520.25	1.72906
553832.81	4161532.25	1.74629	553810.00	4161551.25	1.65893
553796.31	4161577.00	1.73888	553762.56	4161605.25	1.59312
553909.62	4161953.25	1.41792	553900.12	4161966.50	1.32901
553888.38	4161978.25	1.25982	553878.81	4161989.50	1.20195
553860.31	4162004.25	1.12684	553923.62	4161993.50	1.25843

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): 1 , L0000001, L0000002, L0000003, L0000004, L0000005, L0000006,
L0000007, L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018,
L0000019, L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
553913.00	4162002.50	1.20209	553900.12	4162014.25	1.13635
553893.38	4162026.50	1.08281	553957.25	4162019.25	1.20118
553946.06	4162028.25	1.15223	553936.50	4162040.00	1.09626
553925.31	4162054.50	1.02801	553982.50	4162040.50	1.15055
553975.19	4162050.00	1.09987	553963.44	4162060.75	1.04896
553952.75	4162073.00	0.99877	553941.00	4162085.25	0.95164
554017.19	4162065.25	1.09545	554004.88	4162078.75	1.03430
553995.94	4162089.75	0.98915	553985.25	4162102.25	0.94102
553975.75	4162113.50	0.90071	553788.19	4162099.75	0.73486
553796.19	4162089.50	0.76930	553807.38	4162077.50	0.81337
553817.00	4162062.25	0.86889	553829.00	4162051.75	0.91543
553840.19	4162039.75	0.97817	553884.12	4162039.75	1.02537
553872.94	4162051.00	0.96900	553859.38	4162063.75	0.91488
553852.19	4162075.75	0.87140	553841.00	4162087.00	0.82694
553829.00	4162100.50	0.77876	553884.12	4162102.25	0.84259
553896.94	4162091.00	0.88642	553909.75	4162078.25	0.93673
553933.69	4162096.50	0.91232	553924.12	4162110.25	0.86598
553912.94	4162124.50	0.81960	553905.75	4162137.25	0.78307
553940.94	4162159.00	0.75840	553951.31	4162151.00	0.78283
553960.88	4162138.25	0.82377	553965.69	4162126.25	0.85822
553980.88	4162166.25	0.76562	553990.50	4162155.75	0.79704
553996.88	4162140.50	0.84035	554013.69	4162122.25	0.90593
554024.06	4162111.75	0.94593	554032.88	4162098.25	0.99700
554060.06	4162143.75	0.87752	553771.50	4161976.00	1.28642
553762.00	4161983.50	1.24237	553753.81	4161997.00	1.14114
553745.69	4162007.25	1.06670	553734.12	4162019.50	0.97930
553728.00	4162026.25	0.93399	553706.94	4161982.75	1.22325
553713.06	4161974.75	1.32757	553723.25	4161966.50	1.44955
553732.75	4161955.00	1.65499	553743.62	4161940.00	1.88878

**MODELOPTs:
CONC URBAN ELEV FLGPOL DEFAULT

*** THE SUMMARY OF MAXIMUM ANNUAL (3 YRS) RESULTS ***

TOD#2 MER location

** CONC OF OTHER IN MICROGRAMS/M**3 **

GROUP ID		AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZFLAG)	OF TYPE	NETWORK GRID-ID
1	1ST HIGHEST VALUE IS	4.37475 AT	(554299.81, 4161948.25, 19.67, 1.50)	DC	NA
	2ND HIGHEST VALUE IS	4.24965 AT	(554102.00, 4161853.50, 25.47, 1.50)	DC	NA
	3RD HIGHEST VALUE IS	4.21723 AT	(554247.88, 4161915.75, 20.20, 1.50)	DC	NA
	4TH HIGHEST VALUE IS	4.20124 AT	(554071.88, 4161852.00, 26.01, 1.50)	DC	NA
	5TH HIGHEST VALUE IS	4.19972 AT	(554088.44, 4161853.50, 25.75, 1.50)	DC	NA
	6TH HIGHEST VALUE IS	4.19853 AT	(554231.38, 4161902.25, 20.53, 1.50)	DC	NA
	7TH HIGHEST VALUE IS	4.04925 AT	(554118.50, 4161856.50, 25.04, 1.50)	DC	NA
	8TH HIGHEST VALUE IS	4.02428 AT	(554134.31, 4161856.50, 23.59, 1.50)	DC	NA
	9TH HIGHEST VALUE IS	3.94119 AT	(554150.88, 4161857.25, 23.25, 1.50)	DC	NA
	10TH HIGHEST VALUE IS	3.87269 AT	(554056.88, 4161854.25, 26.20, 1.50)	DC	NA
2	1ST HIGHEST VALUE IS	5.03855 AT	(553818.44, 4161680.50, 33.36, 1.50)	DC	NA
	2ND HIGHEST VALUE IS	4.88118 AT	(553809.44, 4161688.00, 33.43, 1.50)	DC	NA
	3RD HIGHEST VALUE IS	4.86537 AT	(553802.63, 4161697.00, 32.51, 1.50)	DC	NA
	4TH HIGHEST VALUE IS	4.85344 AT	(553797.38, 4161703.00, 32.52, 1.50)	DC	NA
	5TH HIGHEST VALUE IS	4.83710 AT	(553732.69, 4161773.75, 34.50, 1.50)	DC	NA
	6TH HIGHEST VALUE IS	4.75255 AT	(553835.00, 4161657.75, 33.23, 1.50)	DC	NA
	7TH HIGHEST VALUE IS	4.67095 AT	(553760.50, 4161739.00, 33.87, 1.50)	DC	NA
	8TH HIGHEST VALUE IS	4.63640 AT	(553716.13, 4161794.75, 33.07, 1.50)	DC	NA
	9TH HIGHEST VALUE IS	4.54792 AT	(553722.19, 4161785.00, 33.11, 1.50)	DC	NA
	10TH HIGHEST VALUE IS	4.42896 AT	(553912.44, 4161569.00, 32.29, 1.50)	DC	NA
ALL	1ST HIGHEST VALUE IS	5.25242 AT	(553818.44, 4161680.50, 33.36, 1.50)	DC	NA
	2ND HIGHEST VALUE IS	5.08527 AT	(553809.44, 4161688.00, 33.43, 1.50)	DC	NA
	3RD HIGHEST VALUE IS	5.06296 AT	(553802.63, 4161697.00, 32.51, 1.50)	DC	NA
	4TH HIGHEST VALUE IS	5.06088 AT	(554102.00, 4161853.50, 25.47, 1.50)	DC	NA
	5TH HIGHEST VALUE IS	5.05558 AT	(554071.88, 4161852.00, 26.01, 1.50)	DC	NA
	6TH HIGHEST VALUE IS	5.04621 AT	(553797.38, 4161703.00, 32.52, 1.50)	DC	NA
	7TH HIGHEST VALUE IS	5.02738 AT	(554088.44, 4161853.50, 25.75, 1.50)	DC	NA
	8TH HIGHEST VALUE IS	4.98566 AT	(553835.00, 4161657.75, 33.23, 1.50)	DC	NA
	9TH HIGHEST VALUE IS	4.98371 AT	(553732.69, 4161773.75, 34.50, 1.50)	DC	NA
	10TH HIGHEST VALUE IS	4.83484 AT	(553760.50, 4161739.00, 33.87, 1.50)	DC	NA

```
 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
                      BD = BOUNDARY


 *** ISCST3 - VERSION 02035 ***    *** Millbrae TOD2                                                    ***        03/18/15
                                   *** Construction HRA                                                 ***        16:04:43
**MODELOPTs:                                                                                                        PAGE  55
CONC                    URBAN ELEV  FLGPOL DFAULT


*** Message Summary : ISCST3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            1 Warning Message(s)
A Total of           41 Informational Message(s)

A Total of           41 Calm Hours Identified


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
RE W282  2088 CHK_EL:RecElev < SrcBase; See non-DFAULT HE>ZI option in  MCB#9

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
```

TOD#2 Construction - Spatial Averaging
Unit Emission Rates (1 g/s)

```
*** ISCST3 - VERSION 02035 ***    *** Millbrae TOD2 - Spatial Averaging MER                                  ***        04/21/15
                                   *** Construction HRA                                                       ***        14:49:22
**MODELOPTs:                                                                                                            PAGE   1
CONC                    URBAN ELEV  FLGPOL DFAULT

                                          ***     MODEL SETUP OPTIONS SUMMARY       ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Intermediate Terrain Processing is Selected

**Model Is Setup For Calculation of Average CONCentration Values.

  --  SCAVENGING/DEPOSITION LOGIC --
**Model Uses NO DRY DEPLETION.  DDPLETE =  F
**Model Uses NO WET DEPLETION.  WDPLETE =  F
**NO WET SCAVENGING Data Provided.
**NO GAS DRY DEPOSITION Data Provided.
**Model Does NOT Use GRIDDED TERRAIN Data for Depletion Calculations

**Model Uses URBAN Dispersion.

**Model Uses Regulatory DEFAULT Options:
           1. Final Plume Rise.
           2. Stack-tip Downwash.
           3. Buoyancy-induced Dispersion.
           4. Use Calms Processing Routine.
           5. Not Use Missing Data Processing Routine.
           6. Default Wind Profile Exponents.
           7. Default Vertical Potential Temperature Gradients.
           8. "Upper Bound" Values for Supersquat Buildings.
           9. No Exponential Decay for URBAN/Non-SO2

**Model Accepts Receptors on ELEV Terrain.

**Model Accepts FLAGPOLE Receptor Heights.

**Model Calculates ANNUAL Averages Only

**This Run Includes:    35 Source(s);      3 Source Group(s); and      22 Receptor(s)

**The Model Assumes A Pollutant Type of:  OTHER

**Model Set To Continue RUNning After the Setup Testing.

**Output Options Selected:
         Model Outputs Tables of ANNUAL Averages by Receptor
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

**NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                m for Missing Hours
                                                                b for Both Calm and Missing Hours
```

```
**Misc. Inputs:  Anem. Hgt. (m) =    10.00 ;    Decay Coef. =    0.000     ;    Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;  Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

**Approximate Storage Requirements of Model =     1.3 MB of RAM.

**Input Runstream File:          TOD2avgMER1.INP
**Output Print File:             TOD2avgMER1.OUT
**Detailed Error/Message File:   TOD2AV~1.ERR
```

CONC URBAN ELEV FLGPOL DFAULT

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZFLAG)
(METERS)

(554299.8,	4161948.2,	19.7,	1.5);	(554299.8,	4161953.2,	19.7,	1.5);
(554299.8,	4161958.2,	19.7,	1.5);	(554299.8,	4161963.3,	18.9,	1.5);
(554302.3,	4161952.5,	19.6,	1.5);	(554304.8,	4161957.0,	19.6,	1.5);
(554307.3,	4161961.2,	18.8,	1.5);	(554304.1,	4161950.8,	19.6,	1.5);
(554308.5,	4161953.2,	19.6,	1.5);	(554312.8,	4161955.8,	18.9,	1.5);
(554295.5,	4161945.8,	19.7,	1.5);	(554291.1,	4161943.2,	19.8,	1.5);
(554286.8,	4161940.8,	19.8,	1.5);	(554294.8,	4161948.2,	19.7,	1.5);
(554289.8,	4161948.2,	19.8,	1.5);	(554284.8,	4161948.2,	19.8,	1.5);
(554295.5,	4161950.8,	19.7,	1.5);	(554291.1,	4161953.2,	19.8,	1.5);
(554286.8,	4161955.8,	19.8,	1.5);	(554297.3,	4161952.5,	19.7,	1.5);
(554294.8,	4161957.0,	19.7,	1.5);	(554292.3,	4161961.2,	19.0,	1.5);

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 1 ***
INCLUDING SOURCE(S): 1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554299.81	4161948.25	4.37475	554299.81	4161953.25	4.06930
554299.81	4161958.25	3.79207	554299.81	4161963.25	3.53850
554302.31	4161952.50	4.18779	554304.81	4161957.00	3.98713
554307.31	4161961.25	3.80161	554304.13	4161950.75	4.35628
554308.50	4161953.25	4.32814	554312.81	4161955.75	4.28426
554295.50	4161945.75	4.38372	554291.13	4161943.25	4.38203
554286.81	4161940.75	4.37522	554294.81	4161948.25	4.20865
554289.81	4161948.25	4.05120	554284.81	4161948.25	3.90211
554295.50	4161950.75	4.08567	554291.13	4161953.25	3.82833
554286.81	4161955.75	3.60050	554297.31	4161952.50	4.04011
554294.81	4161957.00	3.73474	554292.31	4161961.25	3.47724

Concentrations averaged around MER location

CONC URBAN ELEV FLGPOL DFAULT

*** THE ANNUAL (3 YRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: 2 ***
INCLUDING SOURCE(S): L0000001, L0000002, L0000003, L0000004, L0000005, L0000006, L0000007,
L0000008, L0000009, L0000010, L0000011, L0000012, L0000013, L0000014, L0000015, L0000016, L0000017, L0000018, L0000019,
L0000020, L0000021, L0000022, L0000023, L0000024, L0000025, L0000026, L0000027, L0000028, L0000029, L0000030, . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF OTHER IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
554299.81	4161948.25	0.42078	554299.81	4161953.25	0.41355
554299.81	4161958.25	0.40659	554299.81	4161963.25	0.39716
554302.31	4161952.50	0.41339	554304.81	4161957.00	0.40594
554307.31	4161961.25	0.39625	554304.13	4161950.75	0.41502
554308.50	4161953.25	0.40940	554312.81	4161955.75	0.40163
554295.50	4161945.75	0.42675	554291.13	4161943.25	0.43289
554286.81	4161940.75	0.43919	554294.81	4161948.25	0.42334
554289.81	4161948.25	0.42598	554284.81	4161948.25	0.42866
554295.50	4161950.75	0.41930	554291.13	4161953.25	0.41792
554286.81	4161955.75	0.41654	554297.31	4161952.50	0.41586
554294.81	4161957.00	0.41074	554292.31	4161961.25	0.40334

Concentrations averaged around MER location

```
**MODELOPTs:
CONC                    URBAN ELEV  FLGPOL DFAULT


*** Message Summary : ISCST3 Model Execution ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            1 Warning Message(s)
A Total of           41 Informational Message(s)

A Total of           41 Calm Hours Identified


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
RE W282  1893 CHK_EL:RecElev < SrcBase; See non-DFAULT HE>ZI option in  MCB#9

   ************************************
   *** ISCST3 Finishes Successfully ***
   ************************************
```

BAAQMD Meteorological Site

Name: San Mateo STP
Site ID: 6801
Start Date:1/1/1992
End Date: current
Operator: Non-District
Latitude: 37.5702
Longitude: 122.2949
Elevation: 3 m
Wind Height:10 m
UTM - East: 562.266
UTM - North: 4158.362
County: San Mateo
Sensors: ws,wd,temp RH,precip

Files for Downloading

Year	ASCII	ISCST3 300 m mixing height	ISCST3 600 m mixing height
2005	metdata6801-05met.zip	metdata6801-05300.zip	metdata6801-05600.zip
2004	metdata6801-04met.zip	metdata6801-04300.zip	metdata6801-04600.zip
2003	metdata6801-03met.zip	metdata6801-03300.zip	metdata6801-03600.zip
2002	metdata6801-02met.zip	metdata6801-02300.zip	metdata6801-02600.zip
2001	A	A	A
2000	A	A	A
1999	metdata6801-99met.zip	metdata6801-993ra.zip	metdata6801-996ra.zip
1998	metdata6801-98met.zip	metdata6801-98300.zip	metdata6801-98600.zip
1997	metdata6801-97met.zip	A	A
1996	metdata6801-96met.zip	metdata6801-96300.zip	metdata6801-96600.zip
1995	metdata6801-95met.zip	metdata6801-95300.zip	metdata6801-95600.zip
1994	metdata6801-94met.zip	metdata6801-94300.zip	metdata6801-94600.zip
1993	metdata6801-93met.zip	metdata6801-93300.zip	metdata6801-93600.zip
1992	metdata6801-92met.zip	A	A

Note: An “A” instead of a filename for any given year in the ASCII column signifies the data are missing. An “A” in the ISCST3 columns indicates the data are either missing or do not meet the EPA 90% data capture rate required for regulatory modeling applications.

Table C1
MER Spatial Averaging

Model Output Calculations - Spatial Averaging around MER				
Emission Source (a)	ISCST3 Output [1] ($\mu g/m^3$) (b)		Emission Source (c)	ISCST3 Output [1] ($\mu g/m^3$) (d)
	Annual Average			Annual Average
Onsite	4.37		Offsite	0.42
	3.79			0.41
	4.19			0.41
	3.80			0.40
	4.33			0.41
	4.38			0.43
	4.38			0.44
	4.05			0.43
	4.09			0.42
	3.60			0.42
	3.73			0.41
	4.07			0.41
	3.54			0.40
	3.99			0.41
	4.36			0.42
	4.28			0.40
	4.38			0.43
	4.21			0.42
	3.90			0.43
	3.83			0.42
	4.04			0.42
	3.48			0.40
Onsite Average Around MER	4.04		Offsite Average Around MER	0.42

Note: Maximum Exposed Receptor (MER); UTM coordinates: 554299.81, 4161948.25
MER (resident immediately northwest of TOD2) is within 25 meters of source (construction area). Therefore, a spatially averaged concentration, centered around the MER, was determined using a polar receptor grid with a 15 meter radius and receptor spacing of 5 meters, per OEHHA 2015 guidance.

[1] ISCST3 Output based on unit emission rates for sources (1 g/s).

Table C2
MER Output Concentrations

Model Output Calculations - Residential Receptors (unmitigated)					
Emission Source (a)	ISCST3 Output [1] (μg/m^3) (b)	Pollutant (c)	Emission Rates [2] (g/s) (d)	Scalar [3] (e)	MER Concentrations (μg/m^3) (f)
	Annual Average		Average Daily		Annual Average
2016 Onsite	4.04	DPM	3.64E-02	1.000	**1.47E-01**
		$PM_{2.5}$	4.41E-02	1.000	**1.78E-01**
2016 Offsite	0.42	DPM	3.36E-05	1.000	**1.39E-05**
		$PM_{2.5}$	2.12E-04	1.000	**8.82E-05**
2017 Onsite	4.04	DPM	1.60E-02	1.000	**6.47E-02**
		$PM_{2.5}$	1.52E-02	1.000	**6.14E-02**
2017 Offsite	0.42	DPM	1.02E-04	1.000	**4.25E-05**
		$PM_{2.5}$	7.46E-04	1.000	**3.10E-04**
2018 Onsite	4.04	DPM	1.33E-02	1.000	**5.37E-02**
		$PM_{2.5}$	1.27E-02	1.000	**5.12E-02**
2018 Offsite	0.42	DPM	8.90E-05	1.000	**3.70E-05**
		$PM_{2.5}$	7.06E-04	1.000	**2.93E-04**
2019 Onsite	4.04	DPM	1.06E-02	1.000	**4.27E-02**
		$PM_{2.5}$	1.01E-02	1.000	**4.07E-02**
2019 Offsite	0.42	DPM	8.08E-06	1.000	**3.36E-06**
		$PM_{2.5}$	5.48E-05	1.000	**2.28E-05**
2020 Onsite	4.04	DPM	1.48E-02	0.833	**4.97E-02**
		$PM_{2.5}$	1.63E-02	0.833	**5.49E-02**
2020 Offsite	0.42	DPM	5.93E-06	0.833	**2.05E-06**
		$PM_{2.5}$	5.01E-05	0.833	**1.74E-05**
Model Output Calculations - with Mitigation (Tier 3 Engines and Level 3 Diesel Particulate Filters)					
2016 Onsite	4.04	DPM	7.65E-03	1.000	**3.09E-02**
		$PM_{2.5}$	1.78E-02	1.000	**7.19E-02**
2016 Offsite	0.42	DPM	3.36E-05	1.000	**1.39E-05**
		$PM_{2.5}$	2.12E-04	1.000	**8.82E-05**
2017 Onsite	4.04	DPM	6.59E-03	1.000	**2.66E-02**
		$PM_{2.5}$	6.59E-03	1.000	**2.66E-02**
2017 Offsite	0.42	DPM	1.02E-04	1.000	**4.25E-05**
		$PM_{2.5}$	7.46E-04	1.000	**3.10E-04**
2018 Onsite	4.04	DPM	5.97E-03	1.000	**2.41E-02**
		$PM_{2.5}$	5.97E-03	1.000	**2.41E-02**
2018 Offsite	0.42	DPM	8.90E-05	1.000	**3.70E-05**
		$PM_{2.5}$	7.06E-04	1.000	**2.93E-04**
2019 Onsite	4.04	DPM	5.18E-03	1.000	**2.09E-02**
		$PM_{2.5}$	5.18E-03	1.000	**2.09E-02**
2019 Offsite	0.42	DPM	8.08E-06	1.000	**3.36E-06**
		$PM_{2.5}$	5.48E-05	1.000	**2.28E-05**
2020 Onsite	4.04	DPM	5.18E-03	0.833	**1.74E-02**
		$PM_{2.5}$	7.55E-03	0.833	**2.54E-02**
2020 Offsite	0.42	DPM	5.93E-06	0.833	**2.05E-06**
		$PM_{2.5}$	5.01E-05	0.833	**1.74E-05**

TOD2 MER UTM coordinates: 554299.81, 4161948.25

[1] ISCST3 Output based on unit emission rates for sources (1 g/s).

[2] Emission Rates from Emission Rate Calculations (Appendix A - Construction Emissions).

[3] Scalar applied to adjust yearly ISCST3 emissions to duration of construction activities

Table C3
Quantification of Carcinogenic Risks

	Source	MER Conc. ($\mu g/m^3$)	Weight Fraction	Contaminant	URF $(\mu g/m^3)^{-1}$	CPF $(mg/kg/day)^{-1}$	Dose (by age bin) 3rd Trimester (mg/kg-day)	0 < 2 years (mg/kg-day)	2 < 16 years (mg/kg-day)	16 < 70 years (mg/kg-day)	Carcinogenic Risks (by age bin) 3rd Trimester per million	0 < 2 years per million	2 < 16 years per million	16 < 70 years per million	**Total Risk** per million
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
Unmitigated															
2016	On-Site Emissions	1.47E-01	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	5.1E-05	1.5E-04			1.62E+00	1.47E+01			1.63E+01
	Truck Route	1.39E-05	1.00E+00		3.0E-04	1.1E+00	4.8E-09	1.5E-08			1.54E-04	1.39E-03			1.55E-03
2017	On-Site Emissions	6.47E-02	1.00E+00		3.0E-04	1.1E+00		6.8E-05				8.62E+00			8.62E+00
	Truck Route	4.25E-05	1.00E+00		3.0E-04	1.1E+00		4.4E-08				5.66E-03			5.66E-03
2018	On-Site Emissions	5.37E-02	1.00E+00		3.0E-04	1.1E+00		5.6E-05	3.8E-05			1.79E+00	9.31E-01		2.72E+00
	Truck Route	3.70E-05	1.00E+00		3.0E-04	1.1E+00		3.9E-08	2.6E-08			1.23E-03	6.42E-04		1.87E-03
2019	On-Site Emissions	4.27E-02	1.00E+00		3.0E-04	1.1E+00			3.0E-05				9.88E-01		9.88E-01
	Truck Route	3.36E-06	1.00E+00		3.0E-04	1.1E+00			2.4E-09				7.77E-05		7.77E-05
2020	On-Site Emissions	4.97E-02	1.00E+00		3.0E-04	1.1E+00			3.6E-05				1.15E+00		1.15E+00
	Truck Route	2.05E-06	1.00E+00		3.0E-04	1.1E+00			1.5E-09				4.75E-05		4.75E-05
													Total Cancer Risk TOD2		**29.8**
Mitigated Run - Tier 3 Engines and Level 3 Diesel Particulate Filters for equipment 50 HP or greater															
2016	On-Site Emissions	3.09E-02	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-05	3.2E-05			3.41E-01	3.09E+00			3.43E+00
	Truck Route	1.39E-05	1.00E+00		3.0E-04	1.1E+00	4.8E-09	1.5E-08			1.54E-04	1.39E-03			1.55E-03
2017	On-Site Emissions	2.66E-02	1.00E+00		3.0E-04	1.1E+00		2.8E-05				3.55E+00			3.55E+00
	Truck Route	4.25E-05	1.00E+00		3.0E-04	1.1E+00		4.4E-08				5.66E-03			5.66E-03
2018	On-Site Emissions	2.41E-02	1.00E+00		3.0E-04	1.1E+00		2.5E-05	1.7E-05			8.03E-01	4.18E-01		1.22E+00
	Truck Route	3.70E-05	1.00E+00		3.0E-04	1.1E+00		3.9E-08	2.6E-08			1.23E-03	6.42E-04		1.87E-03
2019	On-Site Emissions	2.09E-02	1.00E+00		3.0E-04	1.1E+00			1.5E-05				4.84E-01		4.84E-01
	Truck Route	3.36E-06	1.00E+00		3.0E-04	1.1E+00			2.4E-09				7.77E-05		7.77E-05
2020	On-Site Emissions	1.74E-02	1.00E+00		3.0E-04	1.1E+00			1.2E-05				4.03E-01		4.03E-01
	Truck Route	2.05E-06	1.00E+00		3.0E-04	1.1E+00			1.5E-09				4.75E-05		4.75E-05
													Total Cancer Risk TOD2		**9.09**

TOD2 MER UTM coordinates: 553299.81, 4161948.28

		3rd Trimester	0 < 2 years	2 < 16 years	16 < 70 years
	exposure year(s)	2016	2016-2018	2018-2020	n/a
Dose Exposure Factors:	exposure frequency (days/year)	350	350	350	350
	inhalation rate (L/kg-day) [1]	361	1090	745	290
	inhalation absorption factor	1	1	1	1
Risk Calculation Factors:	age sensitivity factor	10	10	3	1
	exposure duration (year)	0.25	0.75 / 1 / 0.25	0.75 / 1 / 1	n/a
	year	2016	2016/2017/2018	2018/2019/2020	
	averaging time (years)	70	70	70	70
	fraction of time at home	0.85	0.85	0.72	0.73

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

Combining TOD1 Construction Emissions

Unmitigated Cancer Risk at MER from TOD1	8.7
Total Unmitigated Cancer Risk at MER	**38.5**
Mitigated Cancer Risk at MER from TOD1	1.8
Total Mitigated Cancer Risk at MER	**10.9**

Table C4
Quantification of Non-Carcinogenic Risks
Chronic Hazards

Source		REL Type	MER Conc. ($\mu g/m^3$)	Weight Fraction	Contaminant	Chronic Hazards / Toxicological Endpoints*								
						REL ($\mu g/m^3$)	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
(a)		(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)
Unmitigated														
2016	On-Site Emissions	Chronic	1.47E-01	1.00E+00	Diesel Particulate	5.0E+00	2.9E-02							
	Truck Route		1.39E-05	1.00E+00		5.0E+00	2.8E-06							
2017	On-Site Emissions		6.47E-02	1.00E+00		5.0E+00	1.3E-02							
	Truck Route		4.25E-05	1.00E+00		5.0E+00	8.5E-06							
2018	On-Site Emissions		5.37E-02	1.00E+00		5.0E+00	1.1E-02							
	Truck Route		3.70E-05	1.00E+00		5.0E+00	7.4E-06							
2019	On-Site Emissions		4.27E-02	1.00E+00		5.0E+00	8.5E-03							
	Truck Route		3.36E-06	1.00E+00		5.0E+00	6.7E-07							
2020	On-Site Emissions		4.97E-02	1.00E+00		5.0E+00	9.9E-03							
	Truck Route		2.05E-06	1.00E+00		5.0E+00	4.1E-07							
TOTAL							7.2E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
					Maximum Chronic Hazard		**0.072**							
Mitigated Run - Tier 3 Engines and Level 3 Diesel Particulate Filters for equipment 50 HP or greater														
2016	On-Site Emissions	Chronic	3.09E-02	1.00E+00	Diesel Particulate	5.0E+00	6.2E-03							
	Truck Route		1.39E-05	1.00E+00		5.0E+00	2.8E-06							
2017	On-Site Emissions		2.66E-02	1.00E+00		5.0E+00	5.3E-03							
	Truck Route		4.25E-05	1.00E+00		5.0E+00	8.5E-06							
2018	On-Site Emissions		2.41E-02	1.00E+00		5.0E+00	4.8E-03							
	Truck Route		3.70E-05	1.00E+00		5.0E+00	7.4E-06							
2019	On-Site Emissions		2.09E-02	1.00E+00		5.0E+00	4.2E-03							
	Truck Route		3.36E-06	1.00E+00		5.0E+00	6.7E-07							
2020	On-Site Emissions		1.74E-02	1.00E+00		5.0E+00	3.5E-03							
	Truck Route		2.05E-06	1.00E+00		5.0E+00	4.1E-07							
TOTAL							2.4E-02	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
					Maximum Chronic Hazard		**0.024**							

* Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
REPRO	Reproductive System
EYES	Eye irritation and/or other effects

Combining TOD1 Construction Emissions

Unmitigated Chronic Hazards at MER from TOD1	0.018
Total Unmitigated Chronic Hazards at MER	0.090
Mitigated Chronic Hazards at MER from TOD1	0.004
Total Mitigated Chronic Hazards at MER	0.028

Table C5
$PM_{2.5}$ Concentrations

Contaminant (a)	Source (b)		MER Conc. ($\mu g/m^3$) (c)	Concentration Annual Average ($\mu g/m^3$) (d)
Unmitigated				
$PM_{2.5}$	2016	On-Site Emissions	1.78E-01	0.18
		Truck Route	8.82E-05	
	2017	On-Site Emissions	6.14E-02	0.06
		Truck Route	3.10E-04	
	2018	On-Site Emissions	5.12E-02	0.05
		Truck Route	2.93E-04	
	2019	On-Site Emissions	4.07E-02	0.04
		Truck Route	2.28E-05	
	2020	On-Site Emissions	5.49E-02	0.05
		Truck Route	1.74E-05	
	Maximum Annual $PM_{2.5}$ Concentration			**0.18**

Mitigated Run - Tier 3 Engines & Level 3 DPFs for equipment 50 HP or greater				
$PM_{2.5}$	2016	On-Site Emissions	7.19E-02	0.07
		Truck Route	8.82E-05	
	2017	On-Site Emissions	2.66E-02	0.03
		Truck Route	3.10E-04	
	2018	On-Site Emissions	2.41E-02	0.02
		Truck Route	2.93E-04	
	2019	On-Site Emissions	2.09E-02	0.02
		Truck Route	2.28E-05	
	2020	On-Site Emissions	2.54E-02	0.03
		Truck Route	1.74E-05	
	Maximum Annual $PM_{2.5}$ Concentration			**0.07**

Combining TOD2 Construction Emissions

Unmitigated $PM_{2.5}$ at MER from TOD2	0.05
Total Unmitigated $PM_{2.5}$ at MER	0.22
Mitigated $PM_{2.5}$ at MER from TOD2	0.02
Total Mitigated $PM_{2.5}$ at MER	0.09

Table C6
Adult Exposure Scenario - 70 Years
OEHHA 2003 Guidance

Source	Mass GLC	Weight Fraction	Contaminant	Carcinogenic Risk		
				CPF	DOSE *	RISK
	($\mu g/m^3$)			$(mg/kg/day)^{-1}$	(mg/kg/day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Unmitigated						
2016 On-Site Emissions	1.47E-01	1.00E+00	Diesel Particulate	1.1E+00	6.1E-07	6.7E-07
2016 Truck Route	1.39E-05	1.00E+00		1.1E+00	5.8E-11	6.3E-11
2017 On-Site Emissions	6.47E-02	1.00E+00		1.1E+00	2.7E-07	2.9E-07
2017 Truck Route	4.25E-05	1.00E+00		1.1E+00	1.8E-10	1.9E-10
2018 On-Site Emissions	5.37E-02	1.00E+00		1.1E+00	2.2E-07	2.4E-07
2018 Truck Route	3.70E-05	1.00E+00		1.1E+00	1.5E-10	1.7E-10
2019 On-Site Emissions	4.27E-02	1.00E+00		1.1E+00	1.8E-07	1.9E-07
2019 Truck Route	3.36E-06	1.00E+00		1.1E+00	1.4E-11	1.5E-11
2020 On-Site Emissions	4.97E-02	1.00E+00		1.1E+00	2.1E-07	2.3E-07
2020 Truck Route	2.05E-06	1.00E+00		1.1E+00	8.5E-12	9.3E-12
			TOTAL			1.6E-06
			BAAQMD Cancer Risk Adjustment Factor - 70-year Adult Scenario			1.7
			Adjusted Cancer Risk (per million)			**2.75**
Mitigated Run - Tier 3 Engines and Level 3 Diesel Particulate Filters for equipment 50 HP or greater						
2016 On-Site Emissions	3.09E-02	1.00E+00	Diesel Particulate	1.1E+00	1.3E-07	1.4E-07
2016 Truck Route	1.39E-05	1.00E+00		1.1E+00	5.8E-11	6.3E-11
2017 On-Site Emissions	2.66E-02	1.00E+00		1.1E+00	1.1E-07	1.2E-07
2017 Truck Route	4.25E-05	1.00E+00		1.1E+00	1.8E-10	1.9E-10
2018 On-Site Emissions	2.41E-02	1.00E+00		1.1E+00	1.0E-07	1.1E-07
2018 Truck Route	3.70E-05	1.00E+00		1.1E+00	1.5E-10	1.7E-10
2019 On-Site Emissions	2.09E-02	1.00E+00		1.1E+00	8.7E-08	9.5E-08
2019 Truck Route	3.36E-06	1.00E+00		1.1E+00	1.4E-11	1.5E-11
2020 On-Site Emissions	1.74E-02	1.00E+00		1.1E+00	7.2E-08	7.9E-08
2020 Truck Route	2.05E-06	1.00E+00		1.1E+00	8.5E-12	9.3E-12
			TOTAL			5.5E-07
			BAAQMD Cancer Risk Adjustment Factor - 70-year Adult Scenario			1.7
			Adjusted Cancer Risk (per million)			**0.92**

* Exposure factors used to calculate dose

daily breathing rate (L/kg-day) - resident	302
inhalation absorption factor	1.0
exposure frequency (days/year) - residents	350
exposure duration (years)	1.0
averaging time (days) - 70 year duration	25,550
fraction of time at home	1.0

Combining TOD1 Construction Emissions

Unmitigated Cancer Risk at MER from TOD1	0.71
Total Unmitigated Cancer Risk at MER	**3.46**
Mitigated Cancer Risk at MER from TOD1	0.17
Total Mitigated Cancer Risk at MER	**1.09**

Source: Bay Area Air Quality Management District (BAAQMD), 2012. Recommended Methods for Screening and Modeling Local Risks and Hazards. Dated May 2012.

Table C7
Child Exposure Scenario - 9 Years
OEHHA 2003 Guidance

Source	Mass GLC	Weight Fraction	Contaminant	Carcinogenic Risk		
				CPF	DOSE *	RISK
	($\mu g/m^3$)			$(mg/kg/day)^{-1}$	(mg/kg/day)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Unmitigated						
2016 On-Site Emissions	1.47E-01	1.00E+00	Diesel Particulate	1.1E+00	1.2E-06	1.3E-06
2016 Truck Route	1.39E-05	1.00E+00		1.1E+00	1.1E-10	1.2E-10
2017 On-Site Emissions	6.47E-02	1.00E+00		1.1E+00	5.1E-07	5.7E-07
2017 Truck Route	4.25E-05	1.00E+00		1.1E+00	3.4E-10	3.7E-10
2018 On-Site Emissions	5.37E-02	1.00E+00		1.1E+00	4.3E-07	4.7E-07
2018 Truck Route	3.70E-05	1.00E+00		1.1E+00	2.9E-10	3.2E-10
2019 On-Site Emissions	4.27E-02	1.00E+00		1.1E+00	3.4E-07	3.7E-07
2019 Truck Route	3.36E-06	1.00E+00		1.1E+00	2.7E-11	2.9E-11
2020 On-Site Emissions	4.97E-02	1.00E+00		1.1E+00	4.0E-07	4.4E-07
2020 Truck Route	2.05E-06	1.00E+00		1.1E+00	1.6E-11	1.8E-11
			TOTAL			3.1E-06
			BAAQMD Cancer Risk Adjustment Factor - 9-year Child Scenario			4.7
			Adjusted Cancer Risk (per million)			**14.7**
Mitigated Run - Tier 3 Engines and Level 3 Diesel Particulate Filters for equipment 50 HP or greater						
2016 On-Site Emissions	3.09E-02	1.00E+00	Diesel Particulate	1.1E+00	2.5E-07	2.7E-07
2016 Truck Route	1.39E-05	1.00E+00		1.1E+00	1.1E-10	1.2E-10
2017 On-Site Emissions	2.66E-02	1.00E+00		1.1E+00	2.1E-07	2.3E-07
2017 Truck Route	4.25E-05	1.00E+00		1.1E+00	3.4E-10	3.7E-10
2018 On-Site Emissions	2.41E-02	1.00E+00		1.1E+00	1.9E-07	2.1E-07
2018 Truck Route	3.70E-05	1.00E+00		1.1E+00	2.9E-10	3.2E-10
2019 On-Site Emissions	2.09E-02	1.00E+00		1.1E+00	1.7E-07	1.8E-07
2019 Truck Route	3.36E-06	1.00E+00		1.1E+00	2.7E-11	2.9E-11
2020 On-Site Emissions	1.74E-02	1.00E+00		1.1E+00	1.4E-07	1.5E-07
2020 Truck Route	2.05E-06	1.00E+00		1.1E+00	1.6E-11	1.8E-11
			TOTAL			1.1E-06
			BAAQMD Cancer Risk Adjustment Factor - 9-year Child Scenario			4.7
			Adjusted Cancer Risk (per million)			**4.94**

* Exposure factors used to calculate dose

daily breathing rate (L/kg-day) - child	581
inhalation absorption factor	1.0
exposure frequency (days/year) - residents	350
exposure duration (years)	1.0
averaging time (days) - 70 year duration	25,550
fraction of time at home	1.0

Combining TOD1 Construction Emissions

Unmitigated Cancer Risk at MER from TOD1	3.80
Total Unmitigated Cancer Risk at MER	**18.5**
Mitigated Cancer Risk at MER from TOD1	0.90
Total Mitigated Cancer Risk at MER	**5.84**

Source: Bay Area Air Quality Management District (BAAQMD), 2012. Recommended Methods for Screening and Modeling Local Risks and Hazards. Dated May 2012.